



**Oil India Limited**  
**(A Govt. of India Enterprise)**  
**P.O. DULIAJAN, DIST. DIBRUGARH,**  
**ASSAM, INDIA, PIN-786 602**

**CONTRACTS DEPARTMENT**  
**TEL: (91) 374-2800548**  
**E-mail: [contracts@oilindia.in](mailto:contracts@oilindia.in)**  
**Website: [www.oil-india.com](http://www.oil-india.com)**  
**FAX: (91)374-2803549**

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**FORWARDING LETTER**

**M/s** \_\_\_\_\_

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**Sub: IFB No. CDG7752P16 for Hiring of Services including Tools/Equipment / Consumables for Design, Execution & Completion of Horizontal and High-Tech Deviated Wells for a period of 3(three) years.**

Dear Sirs,

1.0 OIL INDIA LIMITED (OIL), a “Navaratna” Category, Government of India Enterprise, is a premier oil Company engaged in exploration, production and transportation of crude oil & natural gas with its Headquarters at Duliajan, Assam. Duliajan is well connected by Air with nearest Airport being at Dibrugarh, 45 km away.

2.0 In connection with its operations, OIL invites International Competitive Bids (ICB) from competent and experienced Contractors through OIL’s e-procurement site for **Hiring of Services including Tools/Equipment / Consumables for Design, Execution & Completion of Horizontal and High-Tech Deviated Wells for a period of 3(three) years**. One complete set of Bid Document covering OIL's IFB for hiring of above services is uploaded in OIL’s e-procurement portal. You are invited to submit your most competitive bid on or before the scheduled bid closing date and time through OIL’s e-procurement portal. For your ready reference, few salient points of the IFB (covered in detail in the Bid Document) are highlighted below:

- |       |                                 |                                                                                      |
|-------|---------------------------------|--------------------------------------------------------------------------------------|
| (i)   | IFB No.:                        | CDG5572P16                                                                           |
| (ii)  | Type of IFB:                    | Single Stage-2(two) Bid System                                                       |
| (iii) | Bid Closing Date & Time:        | 25.08.2015 at 11-00 hrs (IST)                                                        |
| (iv)  | Bid Opening Date & Time:        | 25.08.2015 at 14-00 hrs (IST)                                                        |
| (v)   | Priced Bid Opening Date: & Time | Will be intimated to the eligible bidders nearer the time                            |
| (vi)  | Bid Submission Mode:            | Bid should be uploaded in OIL’s E-Procurement portal                                 |
| (vii) | Bid Opening Place:              | Office of the Head-Contracts<br>Oil India Limited<br>Duliajan – 786602, Assam, India |

- |         |                                     |                                                                                                                                       |
|---------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| (viii)  | Bid Validity :                      | 180 days from date of Closing of bid                                                                                                  |
| (ix)    | Mobilization Time:                  | As defined in the tender                                                                                                              |
| (x)     | Bid Security Amount:                | Rs. 1,10,00,000.00 or US\$ 1,76,000.00                                                                                                |
| (xi)    | Bid Security Validity:              | 210 days from date of closing of bid.                                                                                                 |
| (xii)   | Amount of Performance:<br>Guarantee | 7.5 % of 1 <sup>st</sup> year contract value.                                                                                         |
| (xiii)  | Validity of Performance Security:   | Up to 6 months from date of completion of contract                                                                                    |
| (xiv)   | Duration of the Contract:           | 3(three) years from the date of commencement of contract.                                                                             |
| (xv)    | Quantum of Liquidated Damage:       | 0.5% 1st year contract cost of each for Default in Timely Mobilization for delay per week or part thereof subject to maximum of 7.5%. |
| (xvi)   | Bids to be addressed to:            | HEAD-CONTRACTS<br>OIL INDIA LIMITED<br>DULIAJAN - 786 602<br>ASSAM, INDIA                                                             |
| (xvii)  | Pre-bid conference:                 | 27.07.2015 at 9-30 hrs (IST)                                                                                                          |
| (xviii) | Venue of Pre-Bid Conference:        | Guwahati (Exact venue shall be communicated to the prospective bidders nearer the time)                                               |

**3.0 Integrity Pact :** The Integrity Pact must be uploaded in OIL's E-procurement portal along with the Technical Bid digitally signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. If any bidder refuses to sign Integrity Pact or declined to submit the Integrity Pact, their bid shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who signs the Bid.

#### **4.0 GUIDELINES FOR PARTICIPATING IN OIL'S E-PROCUREMENT:**

4.1 To participate in OIL's E-procurement tender, bidders should have a legally valid digital certificate **of Class 3 with Organizations Name** as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (<http://www.cca.gov.in>). **Digital Signature Certificates having "Organization Name" field as "Personal" are not acceptable.**

4.2 Bidders must have a valid User ID to access OIL e-Procurement site for submission of bid. Vendors having User ID & password can purchase bid documents **on-line through OIL's electronic Payment Gateway**. New vendor shall obtain User ID & password through online vendor registration system in e-portal and can purchase bid documents subsequently in the similar manner. Alternatively parties can write to Head-Contracts, OIL INDIA LTD., Duliajan(Assam) in their official letter head giving the detailed address and E-mail letter along with the cost of bid document(non-refundable) as indicated in the NIT for issue of the User ID and password for accessing the E-procurement tender which must reach Head-Contract's Office on or before the last date of sale. The User ID shall be intimated to the eligible parties through email on receipt of the requisite cost of the bid document.

4.3 Parties shall be eligible for accessing the tender in E-portal after OIL enables them in the E-portal after receipt of the requisite cost of the bidding document.

4.4 In case any bidder is eligible for exemption from paying the tender fee, they should request OIL with supporting documents for issue of the User ID Password/Tender Document on free of charge basis.

4.5 Parties, who do not have a User ID, can click on **Guest** login button in the E-portal to view the available open tenders. **The detailed guidelines are available in OIL's e-procurement site (Help Documentation)**. For any clarification in this regard, bidders may contact Mr. A. J. Sarmah, Sr. Manager (ERP-MM) at [arupsarmah@oilindia.in](mailto:arupsarmah@oilindia.in), Ph.: 09954486025(M).

#### 5.0 **IMPORTANT NOTES:**

Bidders shall take note of the following important points while participating in OIL's e-procurement tender:

- i) The bid along with all supporting documents must be submitted through OIL's E-procurement site only except the following documents which shall be submitted manually by the bidder in two copies in a sealed envelope superscribed with OIL's IFB No., Bid Closing date and marked as "Original Bid Security" and addressed to Head-Contracts, Contracts Department, Oil India Limited, Duliajan-786602, Assam(India) :
  - a) Original Bid Security
  - b) Printed catalogue and Literature, if called for in the tender.
  - c) Power of Attorney for signing the bid.
  - d) Any other document required to be submitted in original as per tender requirement.

**The above documents including the Original bid security, must be received at OIL's Head-Contract's office at Duliajan on or before 12.45 Hrs(IST) on the technical bid closing date failing which the bid shall be rejected.** A scanned copy of the Bid Security

shall also be uploaded by the bidder along with their Technical Bid in OIL's E-procurement site.

- ii) Bid should be submitted online in OIL's E-procurement site up to 11.00 AM (IST)(Server Time) on the date as mentioned and will be opened on the same day at 2.00 PM(IST) at the office of the Head-Contracts in presence of the authorized representatives of the bidders.
- iii) If the digital signature used for signing is not of "Class -3" with Organizations name, the bid will be rejected.
- iv) The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidders shall submit both the "TECHNICAL" and "PRICED" bids through electronic form in the OIL's e-Procurement portal within the Bid Closing Date and Time stipulated in the e-Tender. The Technical Bid should be submitted as per Scope of Work & Technical Specifications along with all technical documents related to the tender and uploaded **"Technical RFx Response" Tab only. Bidders to note that no price details should be uploaded in "Technical RFx Response" Tab Page. Details of prices as per Price Bid format/Priced bid can be uploaded as Attachment just below the "Tendering Text" in the attachment option under "Notes & Attachments" tab. A screen shot in this regard is shown below. Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in Part-2 (Refer Clause 1.0 of (B) Commercial.**

**Display RFx Response:**

Edit | Print Preview | **Technical RFx Response** | Close | Withdraw | Verify sig

RFx Response Number 60006452    RFx Number TEST2    Status Submitted  
 RFx Owner WIPRO\_TEST1    Total Value 0.00 INR    RFx Response Version

RFx Information | Items | **Notes and Attachments** | Conditions | Summary

Basic Data | Questions

**Event Parameters**

Currency: Indian Rupee

Detailed Price Information: Price with Conditions

Terms of Payment: 9010 90% against despatch+10% after receipt

Created E  
 Last Processed C  
 Last Processed E

▼ Partners and Delivery Information

Details | Send E-Mail | Call | Clear

| Function                            | Number | Name | Valid fr |
|-------------------------------------|--------|------|----------|
| The table does not contain any data |        |      |          |

**On “EDIT” Mode- The following screen will appear. Bidders are advised to upload “Technical Bid” and “Priced Bid” in the places as indicated above:**

**Edit RFX Response:**

Bid on “EDIT” Mode

Submit | Read Only | Print Preview | Check | Technical RFX Response | Close | Save | Verify signature of Response | Sign Response

RFX Response Number 60006452 RFX Number TEST2 Status Withdrawn Submission Deadline 13.04.2013 11:00:00 INDIA  
RFX Owner WIPRO\_TEST1 Total Value 0.00 INR RFX Response Version Number 2 RFX Version Number 5

RFX Information Items **Notes and Attachments** Conditions Summary Tracking

▼ Notes

Add Clear

| Assigned To | Category | Text Preview |
|-------------|----------|--------------|
|             |          |              |

Area for uploading Technical Bid\*

▼ Attachments

Sign Attachment Add Attachment Edit Description Versioning Delete Create Qualification Profile

| Assigned To                         | Category | Description | File Name | Version | Processor | Checked |
|-------------------------------------|----------|-------------|-----------|---------|-----------|---------|
| The table does not contain any data |          |             |           |         |           |         |

Area for uploading Priced Bid\*\*

**Note :**

\* The “Technical Bid” shall contain all techno-commercial details **except the prices**.

\*\* The “Priced bid” must contain the price schedule and the bidder’s commercial terms and conditions, if any. For uploading Priced Bid, first click on Sign Attachment, a browser window will open, select the file from the PC and click on “Sign” to sign the file. On Signing a new file with extension .SSIG will be created. Close that window. Next click on Add Attachment, a browser window will open, select the .SSIG signed file from the PC and name the file under Description, Assigned to General Data and click on OK to save the File.

**6.0 Pre-Bid Conference:**

6.1 A pre-Bid conference will be held at **Guwahati, India on 27.07.2015** or on the dates as indicated in the online tender for providing clarifications to prospective bidders on Bid Rejection Criteria(BRC)/Bid Evaluation Criteria(BEC), Terms of Reference/Technical Specifications, Terms and conditions of the IFB to enable them to understand the exact service requirement of the Company. The parties who purchase the bid documents are invited to the Pre-Bid conference. For details of the venue, bidders may contact **Head-Contracts**, Oil India Ltd., P.O. Duliajan-786602, **Phone:** 91-374-2808662/2808653, **Fax#** (91)374-2803549, **E-mail:** [contracts@oilindia.in](mailto:contracts@oilindia.in). Foreign bidder may also request Head-Contracts for an invitation letter, if required, for the purpose of visa for attending the conference.

6.2 At the most 2 (two) representatives from each prospective bidder shall be allowed to participate in the pre-bid conference. All costs for attending the pre-bid conference shall be to prospective bidders’ account.

6.3 The prospective bidders shall submit their queries through E-mail / Fax / Courier addressed to Head-Contracts, Oil India Ltd., Duliajan-786602, Assam prior to the date of pre-bid conference and such queries must reach OIL's office at Duliajan latest by **23.07.2015** or the date as mentioned in the on-line tender. OIL shall provide clarifications to the queries in the pre-bid conference. OIL will not be responsible for non-receipt or late receipt of any bidder's query in OIL's office.

7.0 OIL now looks forward to your active participation in the IFB.

Thanking you,

Yours faithfully,  
**OIL INDIA LIMITED**

( T K GUPTA )  
**HEAD-CONTRACTS**  
*For, **RESIDENT CHIEF EXECUTIVE***

## **PART - 1**

### **INSTRUCTIONS TO BIDDERS**

- 1.0** Bidder shall bear all costs associated with the preparation and submission of bid. Oil India Limited, hereinafter referred to as Company, will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

#### **A. BID DOCUMENTS**

- 2.0** The services required, bidding procedures and contract terms are prescribed in the Bid Document. This Bid Document includes the following:

- (a) A Forwarding Letter highlighting the following points:
  - (i) Company's IFB No. & Type
  - (ii) Bid closing date and time
  - (iii) Bid opening date and time
  - (iv) Bid submission Mode
  - (v) Bid opening place
  - (vi) Bid validity, Mobilisation time & Duration of contract
  - (vii) The amount of Bid Security with validity
  - (viii) The amount of Performance Guarantee with validity
  - (ix) Quantum of liquidated damages for default in timely mobilizations
- (b) Instructions to Bidders, (Part-1)
- (c) Bid Evaluation Criteria/Bid Rejection Criteria, (Part-2)
- (d) General Conditions of Contract, (Part-3, Section-I)
- (e) Terms of Reference/Technical Specification, (Part-3, Section-II)
- (f) Special Conditions of Contract, (Part-3, Section-III)
- (g) Schedule of Rates, (Part-3, Section-IV)
- (h) Estimated CIF value of items at the time of import, (Proforma-A)
- (i) Price Schedule Format, (Proforma-B, B1 & B2)
- (j) Bid Form, (Proforma-C)
- (k) Statement of Non-Compliance, (Proforma-D)
- (l) Bid Security Form, (Proforma-E)
- (m) Performance Security Form, (Proforma-F)
- (n) Agreement Form, (Proforma-G)
- (o) Proforma of Letter of Authority, (Proforma-H)
- (p) Authorisation for Attending Bid Opening, (Proforma-I)
- (q) Record of Bidders past relevant experience, (Proforma-J)
- (r) Integrity Pact Proforma, (Proforma-L)

- 2.1** The bidder is expected to examine all instructions, forms, terms and specifications in the Bid Documents. Failure to furnish all information required in the Bid Documents or submission of a bid not substantially responsive to the Bid Documents in every respect will be at the Bidder's risk & responsibility and may result in the rejection of its bid.

#### **3.0 TRANSFERABILITY OF BID DOCUMENTS:**

- 3.1** Bid Documents are non-transferable. Bid can be submitted only in the name of the bidder in whose name the Bid Document has been issued.

3.2 Unsolicited bids will not be considered and will be rejected straightway.

**4.0 AMENDMENT OF BID DOCUMENTS:**

4.1 At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Documents through issuance of an Addendum.

4.2 The Addendum will be uploaded in OIL's E-Tender Portal in the "Technical RFx Response" under the tab "Amendments to Tender Documents". All prospective bidders to whom Company has issued the Bidding Documents shall also be intimated about the amendments through post/courier or by Fax or e-mail. The Company may, at its discretion, extend the deadline for bid submission, if the Bidders are expected to require additional time in which to take the Addendum into account in preparation of their bid or for any other reason. **Bidders are to check from time to time the E-Tender portal ["Technical RFx Response" under the tab "Amendments to Tender Documents"] for any amendments to the bid documents before submission of their bids.**

**B. PREPARATION OF BIDS**

**5.0 LANGUAGE OF BIDS:** The bid as well as all correspondence and documents relating to the bid exchanged between the Bidder and the Company shall be in English language, except that any printed literature may be in another language provided it is accompanied by an official and notarised English translated version, which shall govern for the purpose of bid interpretation.

**5.1 BIDDER'S/AGENT'S NAME & ADDRESS:**

Bidders should indicate in their bids their detailed postal address including the Fax/Telephone /Cell Phone Nos. and E-mail address. Similar information should also be provided in respect of their authorised Agents in India, if any.

**6.0 DOCUMENTS COMPRISING THE BID:**

Bids are invited under Single Stage Two Bid System. The bid to be uploaded by the Bidder in OIL's E-Tender portal shall comprise of the following components:

**(A) TECHNICAL BID**

- (i) Complete technical details of the services and equipment specifications with catalogue, etc.
- (ii) Documentary evidence established in accordance with Clause 10.0.
- (iii) Bid Security (scanned) in accordance with Clause 11.0 hereunder. Original Bid Security should be sent as per Clause No. 11.10 below.
- (iv) Copy of Bid-Form without indicating prices in Proforma-C
- (v) Statement of Non-compliance as per Proforma-D
- (vi) Proforma-A: List of items to be imported without the CIF values.
- (vii) Copy of Priced Bid ***without indicating prices*** (Proforma-B)
- (viii) Integrity Pact digitally signed by OIL's competent personnel as Proforma-L, attached with the bid document to be digitally signed by the bidder.



**(B) PRICED BID**

Bidder shall quote their prices in the following Proforma available in OIL's E-procurement portal in the **"Notes & Attachments" Tab**:

- (i) Price-Bid Format as per Proforma-B, B1 & B2
- (ii) Bid Form as per Proforma-C
- (iii) Proforma-A showing the items to be imported with the CIF values.

The Priced Bid shall contain the prices along with the currency quoted and any other commercial information pertaining to the service offered.

**7.0 BID FORM:**

The bidder shall complete the Bid Form and the appropriate Price Schedule furnished in their Bid.

**8.0 BID PRICE:**

- 8.1 Prices must be quoted by the Bidders online as per the price bid format available in OIL's E- Tender Portal in "Notes & Attachment" Tab. Unit prices must be quoted by the bidders, both in words and in figures.
- 8.2 Prices quoted by the successful bidder must remain firm during its performance of the Contract and is not subject to variation on any account.
- 8.3 All duties (except customs duty which will be borne by the Company) and taxes (excluding Service Tax) including Corporate Income Tax, Personal Tax, Assam Entry Tax etc. and other Cess/levies payable by the successful bidder under the Contract for which this Bid Document is being issued, shall be included in the rates, prices and total Bid Price submitted by the bidder, and the evaluation and comparison of bids shall be made accordingly. For example, personal taxes and/or any corporate taxes arising out of the profits on the contract as per rules of the country shall be borne by the bidder.

**9.0 CURRENCIES OF BID AND PAYMENT:**

- 9.1 A bidder expecting to incur its expenditures in the performance of the Contract in more than one currency, and wishing to be paid accordingly, shall so indicate in the bid. In such a case, the bid shall be expressed in different currencies and the respective amounts in each currency shall together make up the total price.
- 9.2 Indian bidders too can submit their bids in any currency (including Indian Rupees) and receive payment in such currencies on par with foreign bidders. However, currency once quoted will not be allowed to be changed.

**10.0 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS:**

- 10.1 These are listed in **BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC), PART-2** of the Bid document.

## **11.0 BID SECURITY:**

11.1 The Bid Security is required to protect the Company against the risk of Bidder's conduct, which would warrant forfeiture of the Bid Security, pursuant to sub-clause 11.8.

11.2 All the bids must be accompanied by Bid Security in Original for the amount as mentioned in the "Forwarding Letter" or an equivalent amount in other freely convertible currency and shall be in any one of the following forms:

(a) A Bank Guarantee or irrevocable Letter of Credit in the prescribed format vide **Proforma-E** or in another form acceptable to the Company: Bank Guarantee/LC issued from any of the following Banks only will be accepted:

- i) Any Nationalised / scheduled Bank in India or
- ii) Any Indian branch of a Foreign Bank or
- iii) Any reputed foreign Bank having correspondent Bank in India

The Bank Guarantee / LC shall be valid for 30 days beyond the validity of the bids asked for in the Bid Document.

Bank Guarantees issued by Banks in India should be on non-judicial stamp paper of requisite value, as per Indian Stamp Act, purchased in the name of the Banker.

(b) A Cashier's cheque or Demand Draft drawn on 'Oil India Limited' and payable at Duliajan, Assam.

11.3 **Bidders can submit Bid Security on-line through OIL's electronic Payment Gateway.**

11.4 Any bid not secured in accordance with **sub-clause 11.2** above shall be rejected by the Company as non-responsive.

11.5 The bidders shall extend the validity of the Bid Security suitably, if and when specifically advised by OIL, at the bidder's cost.

11.6 Unsuccessful Bidder's Bid Security will be discharged and/or returned within 30 days after finalization of IFB.

11.7 Successful Bidder's Bid Security will be discharged and/or returned upon Bidder's furnishing the Performance Security and signing of the contract. Successful bidder will however ensure validity of the Bid Security till such time the Performance Security in conformity with **Clause 29.0** below is furnished.

11.8 Bid Security shall not accrue any interest during its period of validity or extended validity.

- 11.9 The Bid Security may be forfeited:
- i) If any bidder withdraws their Bid during the period of bid validity.
  - ii) If any bidder alters their Bid during the period of bid validity or if the bidder increases the price during the period of bid validity.
  - iii) If the bidder does not accept the LOA issued by Company within the validity of the bid.
  - iv) If the bid is accepted by OIL, and work is awarded but the contractor does not furnish the Performance Security.
- 11.10 In case any bidder withdraws their bid during the period of bid validity, Bid Security will be forfeited and the party shall be debarred for a period of 2(two) years.
- 11.11 **The scanned copy of the original Bid Security in the form of either Bank Guarantee or LC or Cashier Cheque or Bank Draft must be uploaded by bidder along with the Technical bid in the “Technical RFX Response” of OIL’s E-portal.** The original Bid Security shall be submitted by bidder to the office of Head-Contracts, Oil India Ltd., Duliajan-786602(Assam), India in a sealed envelope which must reach Head-Contract’s office on or before 12.45 Hrs (IST) on the Bid Closing date failing which the bid shall be rejected.

## **12.0 EXEMPTION FROM SUBMISSION OF BID SECURITY:**

- 12.1 Central Govt. offices, Central Public Sector undertakings and firms registered with NSIC /Directorate of Industries are exempted from submitting Bid Security. However the firms registered with NSIC /Directorate of Industries shall have to submit evidence that they have a current and valid registration for the service they intend to bid including the prescribed monetary limit.

## **13.0 PERIOD OF VALIDITY OF BIDS:**

- 13.1 Bids shall remain **valid for 180** days from the date of closing of bid prescribed by the Company. Bids of shorter validity will be rejected as being non-responsive. If nothing is mentioned by the bidder in their bid about the bid validity, it will be presumed that the bid is valid for 180 days from Bid Closing Date.
- 13.2 In exceptional circumstances, the Company may solicit the Bidder's consent to an extension of the period of validity. The request and the response thereto shall be made in writing through Fax or e-mail. The Bid Security provided under Para 11.0 above shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request will neither be required nor permitted to modify their Bid.

## **14.0 SIGNING OF BID:**

- 14.1 Bids are to be submitted online through OIL’s E-procurement portal with digital signature. The bid and all attached documents should be digitally signed by the bidder using “Class 3” digital certificates with Organizations Name [e-commerce application (Certificate with personal verification and Organisation Name)] as per Indian IT Act 2000 obtained from the licensed

Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India before bid is uploaded.

The bid including all uploaded documents shall be digitally signed by duly authorized representative of the bidder holding a Power of Attorney to bind the Bidder to the contract.

If any modifications are made to a document after attaching digital signature, the digital signature shall again be attached to such documents before uploading the same. The Power of Attorney in original shall be submitted by bidder as mentioned in Para 15.1 below.

The authenticity of above digital signature shall be verified through authorized CA after bid opening and in case the digital signature is not of "Class-3" with organization name, the bid will be rejected.

Bidder is responsible for ensuring the validity of digital signature and its proper usage by their employees.

- 14.2 The original and all copies of the bid shall be typed or written in indelible inks. Since bids are to be submitted ONLINE with digital signature, manual signature is NOT relevant. The letter of authorisation (as per **Proforma-H**) shall be indicated by written Power of Attorney accompanying the Bid.
- 14.3 Any person signing the Bid or any other document in respect of this Bidding Document or other relevant documents on behalf of the Bidder without disclosing his authority to do so shall be deemed to have the authority to bind the Bidder. If it is discovered at any time that the person so signing has no authority to do so, the Company (OIL) may, without prejudice to any other right or remedy, cancel his Bid or Contract and hold the Bidder liable to the Company (OIL) for all costs and damages arising from the cancellation of the Bid or Contract including any loss which the Company (OIL) may sustain on account thereof.
- 14.4 Any physical documents submitted by bidders shall contain no interlineations, white fluid erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such correction shall be initialled by the person or persons who has/have digitally signed the Bid.
- 14.5 Any Bid, which is incomplete, ambiguous, or not in compliance with the Bidding process will be rejected.

## **15.0 SUBMISSION OF BIDS**

- 15.1 The tender is processed under single stage - Two bid system. Bidder shall submit the Technical bid and Priced bid along with all the Annexures and Proforma (wherever applicable) and copies of documents in electronic form through OIL's e-procurement portal within the Bid Closing Date & Time stipulated in the e-tender. For submission of Bids online at OIL's E-Tender Portal, detailed instructions is available in **"HELP DOCUMENTATION"**

available in OIL's E-Tender Portal. Guidelines for bid submission are also provided in the "Forwarding Letter". The Technical Bid is to be submitted as per Terms of Reference/Technical Specifications of the bid document and Priced Bid as per the Price Schedule. The Technical Bid should be uploaded in the "Technical RFX Response" under "Techno-Commercial Bid" Tab Page only. Prices to be quoted as per Proforma-B should be uploaded as Attachment just below the "Tendering Text" in the attachment link under "Techno-Commercial Bid" Tab under General Data in the e-portal. **No price should be given in the "Technical RFX Response", otherwise bid shall be rejected.** The priced bid should not be submitted in physical form which shall not be considered.

However, the following documents in two sets should necessarily be submitted in physical form in sealed envelope superscribing the "IFB No., Brief Description of services and Bid Closing/Opening date & Time along with the bidder's name and should be submitted to Head-Contracts, Oil India Ltd., Duliajan-786602(Assam) on or before 12.45 Hrs(IST) on the bid closing date indicated in the IFB :

- i) The Original Bid Security along with 2(two) copies
- ii) Power of Attorney for signing of the bid digitally
- iii) Any other document required to be submitted in original as per bid document requirement.
- iv) Printed catalogue and literature if called for in the bid document.

Documents sent through E-mail/Fax/Telex/Telegraphic/Telephonic will not be considered.

- 15.2 All the conditions of the contract to be made with the successful bidder are given in various Sections of the Bid Document. Bidders are requested to state their non-compliance to each clause as per Proforma-D of the bid document and the same should be uploaded along with the Technical Bid.
- 15.3 Timely delivery of the documents in physical form as stated in Para 15.1 above is the responsibility of the bidder. Bidders should send the same through Registered Post or by Courier Services or by hand delivery to the Officer in Charge of the particular tender before the Bid Closing Date and Time. Company shall not be responsible for any postal delay/transit loss.
- 15.4 Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted.

#### **16.0 INDIAN AGENT/REPRESENTATIVE/RETAINER/ASSOCIATE:**

Foreign bidders shall clearly indicate in their bids whether they have an Agent/Representative/Retainer/Associate in India. In the event the overseas bidder is having an Agent/Representative/Retainer/Associate in India, the bidder should furnish the name and address of their Agent/Representative/Retainer/Associate in India and clearly indicate nature and extent of services to be provided by such an Agent/Representative/Retainer/Associate in India and also stating in their bids whether the Agent/Representative/Retainer/Associate is authorized to

receive any commission. The rate of the commission included in the quoted rates of bidder should be indicated which would be payable to Agent/Representative/Retainer/Associate in non-convertible Indian currency according to Import Trade Regulation of India. Unless otherwise specified, it will be assumed that agency commission is not involved in the particular bid.

Further, overseas bidders shall submit their bids directly and not through their Agent/Representative/Retainer/Associate in India. Bid submitted by Indian Agent/Representative/Retainer/Associate on behalf of their foreign principals will not be considered and will be rejected straightway. Moreover, one Indian Agent/Representative/Retainer/ Associate cannot represent more than one foreign bidder against the IFB.

The Indian Agent/Representative/Retainer/Associate will not be permitted to submit any Bid Security and Performance Security on behalf of their foreign principals and also the Indian Agent/Representative/Retainer/Associate will not be allowed to execute the contract and receive payment against bid submitted by their foreign principals. Such bids shall be rejected straightway.

**17.0 DEADLINE FOR SUBMISSION OF BIDS:**

- 17.1 Bids should be submitted on-line as per the online tender submission deadline. Bidders will not be permitted by System to make any changes in their bid/quote after the bid has been submitted by the bidder. Bidder may however request Head-Contracts, Oil India Ltd., Duliajan for returning their bids/quote before the original bid closing date and time for resubmission. But no such request would be entertained once the submission deadline has reached or bids are opened.
- 17.2 No bid can be submitted after the submission dead line is reached. The system time displayed on the e-procurement web page shall decide the submission dead line.
- 17.3 The documents in physical form as stated in Para 15.1 must be received by Company at the address specified in the "Forwarding Letter" on or before 12.45 Hrs(IST) on the Bid Closing Date mentioned in the "Forwarding Letter". Timely delivery of the same at the address mentioned in the Forwarding Letter is the responsibility of the Bidders.

**18.0 LATE BIDS:** Bidders are advised in their own interest to ensure that their bids are uploaded in system before the closing date and time of the bid. The documents in physical form mainly the Original Bid Security if received by the Company after the deadline for submission prescribed by the Company shall be rejected and shall be returned to the Bidders in unopened condition immediately.

**19.0 MODIFICATION AND WITHDRAWAL OF BIDS:**

- 19.1 The Bidder after submission of Bid may modify or withdraw its Bid by written notice prior to Bid Closing Date & Time.

- 19.2 The Bidder's modification or withdrawal notice may also be sent by fax/e-mail but followed by a signed confirmation copy, postmarked not later than the deadline for submission of Bids.
- 19.3 No Bid can be modified or withdrawn subsequent to the deadline for submission of Bids.
- 19.4 Once a withdrawal letter is received from any bidder, the offer will be treated as withdrawn and no further claim/correspondences will be entertained in this regard.
- 19.5 No Bid can be withdrawn in the interval between the deadline for submission of Bids and the expiry of the period of Bid Validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval shall result in the Bidder's forfeiture of its Bid Security and bidder shall also be debarred from participation in future tenders of OIL.

#### **20.0 EXTENSION OF BID SUBMISSION DATE:**

Normally no request for extension of Bid Closing Date & Time will be entertained. However, OIL at its discretion, may extend the Bid Closing Date and/or Time due to any reasons. In case of receipt of only one Bid on the Bid Closing Date and Time, OIL may extend the Bid Closing /Opening Date by 2(two) weeks. However, the bidder whose bid has been received within the bid closing date and time, will not be allowed to revise their Bid/prices. Withdrawal of such Bid is also not permitted.

#### **21.0 BID OPENING AND EVALUATION:**

- 21.1 Company will open the Technical Bids, including submission made pursuant to clause 19.0, in presence of Bidder's representatives who choose to attend at the date, time and place mentioned in the Forwarding Letter. However, an authorisation letter (as per **Proforma-I**) from the Bidder must be produced by the Bidder's representative at the time of Bid Opening. Unless this Letter is presented, the representative will not be allowed to attend the Bid Opening. The Bidder's representatives who are allowed to attend the Bid Opening shall sign a register evidencing their attendance. Only one representative against each Bid will be allowed to attend. In technical bid opening, only "Technical RFx Response" will be opened. Bidders therefore should ensure that technical bid is uploaded in the "Technical RFx Response" Tab Page only in the E-portal.
- 21.2 In case of any unscheduled holiday or Bandh on the Bid Opening Date, the Bids will be opened on the next full working day. Accordingly, Bid Closing Date / time will get extended up to the next working day and time.
- 21.3 Bid for which an acceptable notice of withdrawal has been received pursuant to clause 19.0 shall not be opened. Company will examine bids to determine whether they are complete, whether requisite Bid Securities have been furnished, whether documents have been digitally signed and whether the bids are generally in order.

- 21.4 At bid opening, Company will announce the Bidder's names, written notifications of bid modifications or withdrawal, if any, the presence of requisite Bid Security, and such other details as the Company may consider appropriate.
- 21.5 Company shall prepare, for its own records, minutes of bid opening including the information disclosed to those present in accordance with the sub-clause 21.3.
- 21.6 Normally no clarifications shall be sought from the Bidders. However, for assisting in the evaluation of the bids especially on the issues where the Bidder confirms compliance in the evaluation and contradiction exists on the same issues due to lack of required supporting documents in the Bid (i.e. document is deficient or missing), or due to some statement at other place of the Bid (i.e. reconfirmation of confirmation) or vice versa, clarifications may be sought by OIL. In all the above situations, the Bidder will not be allowed to change the basic structure of the Bid already submitted by them and no change in the price or substance of the Bid shall be sought, offered or permitted.
- 21.7 Prior to the detailed evaluation, Company will determine the substantial responsiveness of each bid to the requirement of the Bid Documents. For purpose of these paragraphs, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bid Document without material deviations or reservation. A material deviation or reservation is one which affects in any way substantial way the scope, quality, or performance of work, or which limits in any substantial way, in-consistent way with the Bid Documents, the Company's right or the bidder's obligations under the contract, and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantial responsive bids. The Company's determination of Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.
- 21.8 A Bid determined as not substantially responsive will be rejected by the Company and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- 21.9 The Company may waive minor informality or nonconformity or irregularity in a Bid, which does not constitute a material deviation, provided such waiver, does not prejudice or affect the relative ranking of any Bidder.

**22.0 OPENING OF PRICED BIDS:**

- 22.1 Company will open the Priced Bids of the technically qualified Bidders on a specific date in presence of representatives of the qualified bidders. The technically qualified Bidders will be intimated about the Priced Bid Opening Date & Time in advance. In case of any unscheduled holiday or Bandh on the Priced Bid Opening Date, the Bids will be opened on the next working day.



- 22.2 The Priced bids of the unsuccessful bidders which remain unopened with OIL, may be returned to the concerned bidders on request only after receipt of Performance Security from the successful bidders after issue of Letter of Award (LOA) by OIL.
- 22.3 The Company will examine the Price quoted by Bidders to determine whether they are complete, any computational errors have been made, the documents have been properly signed, and the bids are generally in order.
- 22.4 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price (that is obtained by multiplying the unit price and quantity) the unit price shall prevail and the total price shall be corrected accordingly. If there is a discrepancy between words, and figures, the amount in words will prevail. If any Bidder does not accept the correction of the errors, their Bid will be rejected.

**23.0 CONVERSION TO SINGLE CURRENCY:**

While evaluating the bids, the closing rate of exchange declared by State Bank of India on the day prior to price bid opening will be taken into account for conversion of foreign currency into Indian Rupees. Where the time lag between the opening of the price bids and final decision exceeds three months, the rate of exchange declared by State Bank of India on the date prior to the date of final decision will be adopted for conversion.

**24.0 EVALUATION AND COMPARISON OF BIDS:**

The Company will evaluate and compare the bids as per **BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC), PART-2** of the Bid Documents.

**24.1 DISCOUNTS / REBATES:**

Unconditional discounts/rebates, if any, given in the bid will be considered for evaluation.

- 24.2 Post bid or conditional discounts/rebates offered by any bidder shall not be considered for evaluation of bids. However, if the lowest bidder happens to be the final acceptable bidder for award of contract, and if they have offered any discounts/rebates, the contract shall be awarded after taking into account such discounts/rebates.

**24.3 LOADING OF FOREIGN EXCHANGE:**

There would be no loading of foreign exchange for deciding the inter-se-ranking of domestic bidders.

**24.4 EXCHANGE RATE RISK:**

Since Indian bidders are now permitted to quote in any currency and also receive payments in that currency, Company will not be compensating for any exchange rate fluctuations in respect of the services.

**24.5 REPATRIATION OF RUPEE COST:**

In respect of foreign parties rupee payments made on the basis of the accepted rupee component of their bid, would not be repatriable by them. A

condition to this effect would be incorporated by the Company in the contract.

**25.0 CONTACTING THE COMPANY:**

- 25.1 Except as otherwise provided in **Clause 21.0** above, no Bidder shall contact Company on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded except as required by Company vide **sub-clause 21.6**.
- 25.2 An effort by a Bidder to influence the Company in the Company's bid evaluation, bid comparison or Contract award decisions may result in the rejection of their bid.

**D. AWARD OF CONTRACT**

**26.0 AWARD CRITERIA:**

The Company will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

**27.0 COMPANY'S RIGHT TO ACCEPT OR REJECT ANY BID:**

Company reserves the right to accept or reject any or all bids and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby incurring any liability to the affected bidder, or bidders or any obligation to inform the affected bidder of the grounds for Company's action.

**28.0 NOTIFICATION OF AWARD:**

- 28.1 Prior to the expiry of the period of bid validity or extended validity, Company will notify the successful Bidder in writing by registered letter or by fax or E-mail (to be confirmed in writing by registered / couriered letter) that its Bid has been accepted.
- 28.2 The notification of award will constitute the formation of the Contract.
- 28.3 Upon the successful Bidder's furnishing of Performance Security pursuant to **Clause 29.0** below, the Company will promptly notify each un-successful Bidder and will discharge their Bid Security, pursuant to **Clause 11.0** hereinabove.

**29.0 PERFORMANCE SECURITY:**

- 29.1 Within 2(two) weeks of receipt of notification of award from the Company, the successful Bidder shall furnish to Company the Performance Security for an amount specified in the Forwarding Letter (and Letter of Award (LOA) issued by Company to Contractor awarding the contract) as per **Proforma-F** or in any other format acceptable to the Company and must be in the form of Bank Guarantee (BG) or an irrevocable Letter of Credit (L/C) from any of the following Banks:

- i) Any Nationalised / Scheduled Bank in India OR
- ii) Any Indian branch of a Foreign Bank OR

- iii) Any reputed foreign Bank having correspondent Bank in India

The Performance Security shall be denominated in the currency of the contract or in equivalent US Dollars converted at the B.C. Selling rate of State Bank of India on the date of issue of LOA (Letter of Award). Bank Guarantees issued by Banks in India should be on non-judicial stamp paper of requisite value, as per Indian Stamp Act, purchased in the name of the Banker.

- 29.2 The Performance Security specified above must be valid for 3(three) months beyond the contract period. The Performance Security will be discharged by Company not later than 30 days following its expiry. In the event of any extension of the Contract period, Bank Guarantee should be extended by Contractor by the period equivalent to the extended period.
- 29.3 The Performance Security shall be payable to Company as compensation for any loss resulting from Contractor's failure to fulfil its obligations under the Contract.
- 29.4 The Performance Security will not accrue any interest during its period of validity or extended validity.
- 29.5 Failure of the successful Bidder to comply with the requirements of **clause 29.0 and/or 30.0** shall constitute sufficient grounds for annulment of the award and forfeiture of the Bid Security or Performance Security. In such an eventuality, the party shall be debarred for a period of 2(two) years from the date of default.

**30.0 SIGNING OF CONTRACT:**

- 30.1 At the same time as the Company notifies the successful Bidder that its Bid has been accepted, the Company will either call the successful Bidder for signing of the agreement or send the Contract Form provided in the Bid Documents, along with the General & Special Conditions of Contract, Technical Specifications, Schedule of Rates incorporating all agreements agreed between the two parties.
- 30.2 Within 30 days of issue of LOA, the successful Bidder shall sign and date the contract and return it to the Company. Till the contract is signed, the LOA issued to the successful bidder shall remain binding amongst the two parties.
- 30.3 In the event of failure on the part of the successful Bidder to sign the contract within the period specified above or any other time period specified by Company, OIL reserves the right to terminate the LOA issued to the successful Bidder and invoke the Bid Security or the Performance Security if submitted by the successful Bidder. The party shall also be debarred for a period of 2(two) years from the date of default.

**31.0 FURNISHING FRAUDULENT INFORMATION/DOCUMENTS :**

If it is found that a bidder/contractor has furnished fraudulent information / documents, the Bid Security/Performance Security shall be forfeited and the party shall be debarred for a period of 3(three) years from the date of detection of such fraudulent act besides the legal action.

**32.0 CREDIT FACILITY:**

Bidders should indicate clearly in the Bid about availability of any credit facility inclusive of Government to Government credits indicating the applicable terms and conditions of such credit.

**33.0 MOBILISATION ADVANCE PAYMENT:**

33.1 Request for advance payment shall not be normally considered. However, depending on the merit and at the discretion of the Company, advance against mobilisation charge may be given at an interest rate of 1% above the prevailing Bank rate (CC rate) of SBI from the date of payment of the advance till recovery/refund.

33.2 Advance payment agreed to by the Company shall be paid only against submission of an acceptable bank guarantee whose value should be equivalent to the amount of advance plus the amount of interest covering the period of advance. Bank guarantee shall be valid for 2 months beyond completion of mobilisation and the same may be invoked in the event of Contractor's failure to mobilise as per agreement.

33.3 In the event of any extension to the mobilisation period, Contractor shall have to enhance the value of the bank guarantee to cover the interest for the extended period and also to extend the validity of bank guarantee accordingly.

**34.0 INTEGRITY PACT:**

34.1 OIL shall be entering into an Integrity Pact with the Bidders as per format enclosed vide **Proforma-L** of the Bid Document. The Integrity Pact has been duly signed digitally by OIL's competent signatory and uploaded in the OIL's e-portal. The Integrity Pact shall be returned by the bidder (along with the technical Bid) duly signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. Uploading the Integrity Pact in the OIL's E-portal with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who has signed the bid. If any bidder refuses to sign Integrity Pact or declined to submit the Integrity Pact, their bid shall be rejected straightway

34.2 OIL has appointed Shri Raghaw Sharan Pandey, IAS (Retd), Former Secretary(MOP&NG) and Shri Rajiv Mathur, IPS(Retd) as Independent Monitors(IEMs) for a period of 3(three) years to oversee implementation of Integrity Pact in OIL. Bidders may contact the Independent Monitors for any matter relating to the IFB at the following addresses:

a. Shri Raghaw Sharan Pandey, IAS(Retd), Former Secretary,

Ministry of Petroleum & Natural Gas; E-mail : [rspandey\\_99@yahoo.com](mailto:rspandey_99@yahoo.com)

- b. Shri Rajiv Mathur, IPS(Retd), Former Director, IB, Govt. of India;  
E-mail : [rajivmathur23@gmail.com](mailto:rajivmathur23@gmail.com)

### **35.0 LOCAL CONDITIONS:**

It is imperative for each Bidder to be fully informed themselves of all Indian as well as local conditions, factors and legislation which may have any effect on the execution of the work covered under the Bidding Document. The bidders shall be deemed, prior to submitting their bids to have satisfied themselves of all the aspects covering the nature of the work as stipulated in the Bidding Document and obtain for themselves all necessary information as to the risks, contingencies and all other circumstances, which may influence or affect the various obligations under the Contract.

No request will be considered for clarifications from the Company (OIL) regarding such conditions, factors and legislation. It is understood and agreed that such conditions, factors and legislation have been properly investigated and considered by the Bidders while submitting the Bids. Failure to do so shall not relieve the Bidders from responsibility to estimate properly the cost of performing the work within the provided timeframe. Company (OIL) will assume no responsibility for any understandings or representations concerning conditions made by any of their officers prior to award of the Contract. Company (OIL) shall not permit any Changes to the time schedule of the Contract or any financial adjustments arising from the Bidder's lack of knowledge and its effect on the cost of execution of the Contract.

### **36.0 SPECIFICATIONS:**

Before submission of Bids, Bidders are requested to make themselves fully conversant with all Conditions of the Bid Document and other relevant information related to the works/services to be executed under the contract.

**END OF PART - 1**

**&&&&**

## **PART – 2**

### **BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)**

- I) BID REJECTION CRITERIA (BRC):** The bid shall conform generally to the specifications and terms and conditions given in this bid document. Bids shall be rejected in case the services offered do not conform to required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bids to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.

**A. TECHNICAL**

Bidders must meet the following criteria:

- 1.0 The bidders should be in the business of providing services for drilling Horizontal and High Angle & High Displacement directional wells and Window cutting jobs using RSS & SDMM and Whipstock & Window-Mill at least for 3(three)years within a period of 5(five) years from bid closing date.
- 2.0 The bidder should have experience in providing RSS & SDMM-MWD/LWD combination services and must have drilled minimum 5(five) numbers of high tech wells (i.e. Horizontal and High Angle – High Displacement directional wells) and one Window cutting for sidetracking or lateral drilling in onshore/ offshore areas using above tools during last 3(three) years, as on bid closing date. Out of these 5(five)wells, two directional wells must be of 4000m or more TVD with 2500m or more horizontal displacement and one horizontal well with total displacement 2000m (or more) and 400m (or more) in case of 6" drain hole section.
- 3.0 The bidder should have experience in providing Rotary Steerable System integrated with Collar Based MWD / LWD tools and Directional Drilling Services to Oil Industry since last 5 years as on bid closing date.
- 4.0 Bidder must confirm the following:
  - a) To provide RSS Tools with Collar Based Directional and Gamma Ray MWD for 8 ½" & 12 ¼"(optional) Hole having capability of DLS 5°/ 30 M or more, temperature range 140 – 150°. RSS Tools should have automated closed loop deviation control system with real time up link and down link facility, which is to be provided by Mud Pulse Telemetry. Down linking has to be either computerized with help of separate skid mounted unit or by change of flow by mud pumps. (Probe based tools and down linking other than Mud Pulse Telemetry will not be acceptable).
  - b) In case the bidder fails/unable to provide relevant documentary evidence duly signed and issued by the client/operators, the bidder shall provide contract reference and full contact details of the client/operator to enable OIL to contact and get the authenticity of the bidder's claim/statement

confirmed. OIL shall contact the clients/operators under intimation/copy to the respective bidder. The onus lies on the bidder to liaise with the respective clients to provide relevant information/confirmation to OIL within the stipulated time.

- c) As documentary evidences in support of above Clause 1.0, bidders should submit relevant pages of contracts/work orders along with completion certificate/payment certificate issued by the clients or any other documents showing details of work carried out to complete the wells and window cutting job. The details of contracts executed by the bidder for drilling high-tech wells should be submitted as per Annexure - N & O. Proof of settlement / release of final payment against the contract.

5.0 The bidders must quote for all the activities under Scope of Work of the tender as per specification mentioned. Bidder has to provide the following services along with the tools & equipment and personnel:

- I. SDMM along with allied Tools & Services
- II. RSS along with allied Tools & Services
- III. MWD/LWD Tool and Services
- IV. Drilling Jars along with compatible Jar Intensifiers and Services
- V. Liner Hanger with Packer and Setting Tools with Services-(Call-Out basis)
- VI. Whipstock and Window Milling Services- (Call Out basis)

6.0 In case the bidder does not have all the services of their own, they can have pre-tender tie-up with relevant expert service provider for the services mentioned in Clause No.5(V)&(VI) provided the prime bidder has the following expertise and services:

- I) Directional Drilling Service
- II) SDMM Equipment with Stabilizer & Service
- III) RSS tool along with allied Tools & Services
- IV) MWD/LWD Equipment & Service for Directional & Gamma Measurement, Resistivity, Density & porosity and bed boundary tool.

Bidder must confirm the details in this regard and documentary evidence should be provided.

7.0 In case of pre tender tie up, the bidders should execute a legally enforceable MOU/ Agreement valid for the entire duration of the contract including extension, if any. Copies of same should be furnished along with the technical bid.

## **8.0 Experience of Bidder's Personnel**

8.1 The bidder should be required to depute competent personnel as per 'scope of work' of the tender having experience in designing, drilling and completion of at least 3(three)Nos. of horizontal wells and high angle - high

displacement during the last three years as on the bid closing date of the tender.

LWD / MWD Engineers and Rotary steerable Directional Driller should be employee of the Bidder and should have minimum 3 years experience in drilling of horizontal wells and High Angle – High Displacement wells with RSS and SDMM Tools.

8.2 The Bidder should submit the Bio Data of personnel proposed to be deployed for associated services mentioned under serial nos. (I) to (III) in clause 2 above. LWD / MWD Engineers and Directional Drillers stating their experience, achievements in operation of Rotary Steerable Equipment and SDMM with LWD / MWD Tool as per Scope of Work. Before reporting at site the personnel mentioned must produce their original relevant documents for verification from OIL.

9.0 Bidders should note the following:

9.1 MWD/LWD tools of Collar based (as specified in the bid document) type with Positive Mud Pulse Telemetry system shall only be acceptable and the set of RSS & MWD/LWD must be compatible with each other in all respect. The bidder should categorically confirm to this effect.

9.2 RSS, SDMM & MWD/LWD tools should comply with the followings:-

- a) The key down hole RSS, SDMM & MWD/LWD tools should not be older than 5 years as on the bid closing date and manufacturer's certificate to this extent should be provided (not service company's certificate) along with the Bid.
- b) The bidder should provide the technical literature/catalogue for the offered MWD/LWD & RSS tool.
- c) The bidder shall provide Calibration certificate of MWD/LWD tool before mobilization showing Inclination, Azimuth, Tool face & Dip angle accuracies as applicable. Calibration certificates for accuracy of Measurement should not be more than 6 months old. Bidder needs to confirm the same.

10.0 **Mobilization Period**: The bidder must be in a position to mobilize the services as under and should categorically confirm to this effect:

- i) All the Tools, equipment and Personnel for 12. ¼" or 8. ½" or 6" hole section shall have to be mobilized by the Contractor as per requirement of OIL to the Company's base / well site within 90 days from the date of issuance of Mobilization letter. Mobilization shall be deemed to be completed for that particular hole section only when Contractor's Tools, equipment and manpower are placed at the nominated location in readiness to commence Work as envisaged under the Contract duly certified by the Company's representative.



- ii) All the tools and equipment for one horizontal well and all other consumables including 7" Liner Hanger with packer and accessories, 4" Liner Hanger and ICD with accessories and Gas Lift Equipment with completion Packers for one well shall have to be mobilized by the Contractor within **45days from the date of notification by OIL.**
  - iii) **MOBILIZATION OF CALL OUT SERVICES (TOOL / EQUIPMENT) :**  
Within 45 days from the date of notification by Company.
  - iv) **RE – MOBILIZATION OF ANY SERVICES ( TOOL / EQUIPMENT ) :**  
Within 20 days from the date of notification by Company.
  - v) **MOBILIZATION OF ADDITIONAL SERVICES (TOOL/EQUIPMENT ) :**  
Within 45 days from the date of notification by Company.
- 11.0 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 against the tender and such bids shall be rejected straightway. Further, all bids from parties with technical collaboration support from the same Principal will be rejected.
- 12.0 The bidder shall have an average Annual financial turnover of minimum Rs. 33.00 Crores or USD 5.10 Million during the last 3(three) years ending 31.03.14(for Accounting Year April-March) and 31.12.13(for calendar Year Accounting year). Documentary evidence in the form of Audited Balance Sheet and Profit & Loss Account for the last three years ending 31.03.14 or 31.12.13 as applicable should be submitted along with the technical bid.
- 12.1 In case the audited Balance sheet and Profit Loss Account along with the bid are in currencies other than INR or USD, the bidder shall have to convert the figures in equivalent INR or USD considering the prevailing conversion rate on the date on which the audited Balance sheet and Profit and Loss Account is signed.
- 13.0 **Bids from 100% Subsidiary:**  
Bids of those bidders who themselves do not meet the experience criteria as stipulated in the tender, can also be considered provided the bidder is a 100% subsidiary company of the parent company which itself meets the experience criteria. In such case as the subsidiary company is dependent upon the experience of the parent company with a view to ensure commitment and involvement of the parent company for successful execution of the contract, the participating bidder should enclose an agreement (as per format enclosed) between the parent company and the subsidiary company and Corporate Guarantee (as per format enclosed) from the parent company to OIL for fulfilling the obligation under the contract.

## **B. COMMERCIAL – BID SUBMISSION**

- 1.0 Bids shall be submitted under single stage two Bid system i.e. Technical Bid and Priced Bid separately in the OIL's e-Tender portal. The Technical Bid is

to be uploaded as per Scope of Work & Technical Specification of the tender in **“Technical RFX Response” Tab** and Priced Bid as per Proforma-B uploaded in the **“Notes & Attachments” Tab**. Bids shall be rejected outright if the prices are indicated in the technical bids. Bids not conforming to this two bid system shall be rejected outright.

- 2.0 Bidder shall offer firm prices. Price quoted by the successful bidder must remain firm during the execution of the contract and not subject to variation on any account.
- 3.0 Bids with shorter validity will be rejected as being non-responsive.
- 4.0 Bid Security in Original shall be furnished as a part of the Technical Bid and shall reach OIL's Head-Contract's office at Duliajan on or before 12.45 Hrs(IST) on the bid closing date. A scanned copy of the bid security shall however be uploaded in OIL's E-Procurement portal along with the Technical Bid. The amount of Bid Security shall be as specified in the Forwarding Letter of the Bid Document. Bid without proper & valid Bid Security will be rejected.
- 5.0 The Integrity Pact must be uploaded in OIL's E-Procurement portal along with the Technical Bid digitally signed by the same signatory who digitally signed the Bid i.e. who is duly authorized to sign the Bid.
- 6.0 Physical Bids, if any received from the bidders, shall not be considered and will be rejected.
- 7.0 Bids submitted after the Bid Closing Date and Time will be rejected.
- 8.0 Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted.
- 9.0 The bid documents are non-transferable. Bid can only be submitted in the name of the bidder in whose name the User ID and Password have been issued. Unsolicited bids will not be considered and will be straightway rejected.
- 10.0 Bids shall be typed or written in indelible ink and shall be digitally signed by the bidder or his authorised representative.
- 11.0 Any physical documents wherever called for, submitted by bidders shall contain no interlineations, white fluid erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such correction shall be initialled by the person or persons who has/have digitally signed the Bid.
- 12.0 Bidders shall bear, within the quoted rates, the personal tax as applicable in respect of their personnel and Sub-Contractor's personnel, arising out of execution of the contract.

- 13.0 Bidders shall bear, within the quoted rate, the corporate tax as applicable on the income from the contract.
- 14.0 Any Bid containing false statement will be rejected.
- 15.0 Bidders must quote clearly and strictly in accordance with the price schedule outlined in “Price Bid Format” of Bid Document, otherwise the Bid will be summarily rejected.
- 16.0 Bidders shall quote directly and not through their Agent/ Representative/Retainer/Associate in India. Bids submitted by Indian Agent/ Representative/Retainer/Associate on behalf of their foreign principals will not be considered and will be rejected straightway. One Indian Agent/Representative/Retainer/Associate cannot represent more than one foreign principal
- 17.0 Bidder must accept and comply with the following clauses as given in the Bid Document in toto failing which bid will be rejected –
- i) Performance Guarantee Clause
  - ii) Force Majeure Clause
  - iii) Tax Liabilities Clause
  - iv) Arbitration Clause
  - (iv) Acceptance of Jurisdiction and Applicable Law
  - (v) Liquidated damage and penalty clause
  - (vi) Safety & Labour Law
  - (vii) Termination Clause
  - (viii) Integrity Pact

**C. GENERAL**

- 1.0 In case bidder takes exception to any clause of bid document not covered under BEC/BRC, then the Company has the discretion to load or reject the offer on account of such exception if the bidder does not withdraw/modify the deviation when/as advised by Company. The loading so done by the Company will be final and binding and the Company reserves the right to ask the bidder for clarification in respect of bidders.
- 2.0 To ascertain the substantial responsiveness of the Bid the Company reserves the right to ask the bidder for clarifications in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the Company, failing which the offer will be summarily rejected.
- 3.0 If any of the clauses in the BRC contradict with other clauses of the Bid Document elsewhere, then the clauses in the BRC shall prevail.

## **II. BID EVALUATION CRITERIA (BEC)**

- 1.0 The bids conforming to the technical specifications, terms and conditions stipulated in the bidding document and considered to be responsive after subjecting to Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria given below:
- 2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 3.0 For conversion of foreign currency into Indian currency for evaluation of Bids, B.C. selling (Market) rate declared by State Bank of India, one day prior to the date of priced bid opening shall be considered. However, if the time lag between the opening of the bids and final decision exceeds 3(three) months, then B.C. Selling(Market) rate of exchange declared by SBI on the date prior to the date of final decision shall be adopted for conversion and evaluation.
- 4.0 The bidders must quote their charges / rates in the manner as called for vide "Schedule of Rates" under **Section - IV** and the summarized price schedule format vide enclosed **Proforma -B**.
- 5.0 The quantities shown against each item in the "**Price Bid Format (i.e. in Proforma-B)**" shall be considered for the purpose of Bid Evaluation. It is, however, to be clearly understood that the assumptions made in respect of the number of days/parameters for various operations are only for the purpose of evaluation of the bid and the bidder will be paid on the basis of the actual number of days/parameter, as the case may be.
- 6.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made subject to loading for any deviation. Commercial Bids shall be evaluated taking into account the rates quoted in the PRICE BID FORMAT as per Proforma - B.

**TOTAL ESTIMATED CONTRACT COST FOR 3(THREE) YEARS INCLUDING ALL TAXES & DUTIES EXCEPT SERVICE TAX AND CUSTOMS DUTY WHICH SHALL BE EXTRA TO OIL'S ACCOUNT,**

$$T = A + B + C + D + E + F$$

**Where,**

**T = TOTAL COST OF THE CONTRACT FOR 3 YEARS**

A = Total Mobilization charges of tools and equipments

B = Total De Mobilization charges of tools and equipments

C = Total Operating Charges Tools / Equipment

D = Total Rental Charges Tools / Equipment

E = Total Cost of call out items and services

F = Total Cost of other call out items i.e. Window mill, Gyro etc

Note :

- (i) The above items are defined in schedule of Rates/Price schedule.
- (ii) The rates are inclusive of all taxes and duties except service tax and custom duty which shall be to OIL's account.

7.0 **CUSTOMS DUTY** : The Tools and the services under this Contract shall be carried out in ML/PEL areas of the Company which have been issued or renewed to Company after 01/04/99 and therefore, Customs Duty on the imports under this Contract presently shall be Nil. Bidders should take note of the same while quoting. No customs duty is therefore considered for evaluation.

**&&&&**

## **SECTION - I**

### **GENERAL CONDITIONS OF CONTRACT**

#### **1.0 DEFINITIONS:**

1.1 In the contract, the following terms shall be interpreted as indicated:

- (a) "Contract" means agreement entered into between Company and contractor, as recorded in the contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein;
- (b) "Contract Price" means the price payable to contractor under the contract for the full and proper performance of its contractual obligations;
- (c) "Work" means each and every activity required for the successful performance of the services described in Section II, the Terms of Reference;
- (d) "Company" or "OIL" means Oil India Limited;
- (e) "Contractor" means the individual or firm or Body incorporated performing the work under this Contract;
- (f) "Contractor's Personnel" means the personnel to be provided by the contractor to provide services as per the contract;
- (g) "Company's Personnel" means the personnel to be provided by OIL or OIL's contractor (other than the Contractor executing this Contract). The company representatives of OIL are also included in the Company's personnel.

#### **2.0 EFFECTIVE DATE, MOBILISATION TIME, DATE OF COMMENCEMENT OF THE CONTRACT AND DURATION OF CONTRACT:**

2.1 **EFFECTIVE DATE OF CONTRACT** : The contract shall become effective as of the date company notifies the contractor in writing that it has been awarded the contract. This date of issuance of Letter of Award(LOA) by the Company will be the Effective Date of Contract.

2.2 **MOBILISATION TIME OF CONTRACT** : The Mobilization time of the Contract shall be as under :

The mobilization schedule will be as under:

- i) All the Tools, equipment and Personnel for 12. ¼" or 8. ½" or 6" hole section shall have to be mobilized by the Contractor as per requirement of OIL to the Company's base / well site within 90 days from the date of issuance of Mobilization letter. Mobilization shall be deemed to be completed for that particular hole section only when Contractor's Tools, equipment and

manpower are placed at the nominated location in readiness to commence Work as envisaged under the Contract duly certified by the Company's representative.

- ii) All the tools and equipment for one horizontal well and all other consumables including 7" Liner Hanger with packer and accessories, 4" Liner Hanger and ICD with accessories and Gas Lift Equipment with completion Packers for one well shall have to be mobilized by the Contractor within **45days from the date of notification by OIL.**
- iii) **MOBILIZATION OF CALL OUT SERVICES (TOOL / EQUIPMENT) :**  
Within 45 days from the date of notification by Company.
- iv) **RE – MOBILIZATION OF ANY SERVICES ( TOOL / EQUIPMENT ) :**  
Within 20 days from the date of notification by Company.
- v) **MOBILIZATION OF ADDITIONAL SERVICES (TOOL/EQUIPMENT) :**  
Within 45 days from the date of notification by Company.

2.3 **COMMENCEMENT DATE OF THE CONTRACT** : The Commencement Date of the Contract will be reckoned from one day after the mobilization is certified by the Company to be completed as defined under Clause No. 2.2 of Section-I and "Schedule of Rates" in Section – IV.

- i) Once the Contractor's Equipments are ready to commence services and have reached the Company's base or the Contractor's base nearest to the Site, Contractor shall issue a Notice of Readiness for Inspection to the Company.
- ii) Company shall inspect the Contractor's Equipment within 7 (seven) working days' of receipt of the Contractor's Notice of Readiness for Inspection, and confirm completion of mobilization. Company Representatives inspecting the Contractor's Equipment shall notify the Contractor of any deficiency in the set of equipments, and only on removal of such deficiency, mobilization shall be complete.

2.4 **DURATION OF CONTRACT:** Contract shall be valid for a period of 3 years from the commencement date. The period of contract will stand automatically extended, on the same terms, conditions and rates by the period required for completion of jobs in progress at the time of expiry of the contract. However, Company at its discretion, shall have the option to extend the contract by 1(one) year at the same rates, terms & conditions of the contract. If so desires by OIL, further extension of the contract after one year extended period shall be at the mutually agreed rates.

3.1 **GENERAL OBLIGATIONS OF CONTRACTOR:** Contractor shall, in accordance with and subject to the terms and conditions of this Contract:

3.2 Perform the work described in the Terms of Reference (Section-II) in most economic and cost effective way.

- 3.3 Except as otherwise provided in the Terms of Reference and the special Conditions of the contract, provide all labour as required to perform the work.
- 3.4 Perform all other obligations, work and services which are required by the terms of this contract or which reasonably can be implied from such terms as being necessary for the successful and timely completion of the work.
- 3.5 Contractor shall be deemed to have satisfied himself before submitting their bid as to the correctness and sufficiency of its bid for the services required and of the rates and prices quoted, which rates and prices shall, except insofar as otherwise provided, cover all its obligations under the contract.
- 3.6 Contractor shall give or provide all necessary supervision during the performance of the services and as long thereafter within the warranty period as Company may consider necessary for the proper fulfilling of contractor's obligations under the contract.
- 4.0 **GENERAL OBLIGATIONS OF THE COMPANY:** Company shall, in accordance with and subject to the terms and conditions of this contract:
- 4.1 Pay Contractor in accordance with terms and conditions of the contract. The period of time for which each rate shall be applicable shall be computed from and to the nearest an hour. The rates contained in the Contract shall be based on Contractor's operation being conducted on a seven (7) days week and a twenty-four (24) hours work day. Under the Contract, Contractor will be entitled to the applicable rate defined in Section IV. These rates are payable when the required condition has existed for a full 24 hours period. If the required condition existed for less than 24 hours then payments shall be made on pro-rata basis.
- 4.2 Allow Contractor access, subject to normal security and safety procedures, to all areas as required for orderly performance of the work.
- 4.3 Perform all other obligations required of Company by the terms of this contract.
- 5.0 **PERSONNEL TO BE DEPLOYED BY THE CONTRACTOR:**
- 5.1 Contractor warrants that it shall provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently.
- 5.2 The Contractor should ensure that their personnel observe applicable company and statutory safety requirement. Upon Company's written request, contractor, entirely at its own expense, shall remove immediately any personnel of the Contractor determined by the Company to be unsuitable and shall promptly replace such personnel with personnel acceptable to the Company. Replacement personnel should be mobilized within 15 days from the date of issuance of notice without affecting the operation of the company.



- 5.3 The Contractor shall be solely responsible throughout the period of the contract for providing all requirements of their personnel including but not limited to, their transportation to & fro from Duliajan/ field site, enroute/ local boarding, lodging & medical attention etc. Company shall have no responsibility or liability in this regard. However, Company shall provide available medical assistance/facilities to Contractor's Personnel in case of emergency at its own establishment on chargeable basis.
- 5.4 Contractor's key personnel shall be fluent in English language (both writing and speaking).
- 6.0 **WARRANTY AND REMEDY OF DEFECTS:**
- 6.1 Contractor warrants that it shall perform the work in a professional manner and in accordance with the highest degree of quality, efficiency, and with the state of the art technology/inspection services and in conformity with all specifications, standards and drawings set forth or referred to in the Technical Specifications. They should comply with the instructions and guidance, which Company may give to the Contractor from time to time.
- 6.2 Should Company discover at any time during the tenure of the Contract or till completion of demobilization of tools and personnel after issuance of demobilization notice/expiry of contract that the Work does not conform to the foregoing warranty, Contractor shall after receipt of notice from Company, promptly perform any and all corrective work required to make the services conform to the Warranty. Such corrective Work shall be performed entirely at Contractor's own expenses. If such corrective Work is not performed within a reasonable time, the Company, at its option may have such remedial Work performed by others and charge the cost thereof to Contractor which the Contractor must pay promptly. In case Contractor fails to perform remedial work, or pay promptly in respect thereof, the performance security shall be forfeited.
- 6.3 **WARRANTY OF CONSUMABLES :**  
Consumables to be supplied hereunder shall be new, of recent make, of the best quality & workmanship and shall be guaranteed by the Contractor/Seller for a period of 12 months from the date of despatch/ shipment against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the Contractor/Seller shall be replaced immediately by the Contractor/Seller free of charge on delivery at Duliajan site basis including payment of all taxes and duties at Contractor's/ Seller's expenses.
- 7.0 **CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:**
- 7.1 Contractor shall not, without Company's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing pattern, sample or information furnished by or on behalf of Company in connection therewith, to any person other than a person employed by Contractor in the performance of the contract. Disclosure to any such

employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.

- 7.2 Contractor shall not, without Company's prior written consent, make use of any document or information except for purposes of performing the contract.
- 7.3 Any document supplied to the Contractor in relation to the contract other than the Contract itself remain the property of Company and shall be returned (in all copies) to Company on completion of Contractor's performance under the Contract if so required by Company.
- 7.4 During this Contract, Company and its employees, agents, other contractors, sub-contractors (of any tier) and their employees etc may be exposed to certain Confidential information and data of the Contractor. Such information and data shall held by the Company, its employees, agents, other contractors, sub-contractors (of any tier) and their employees in the strictest Confidence and shall not be disclosed to any other party except on a need to know basis.
- 7.5 However, the above obligation shall not extend to information which
- i) Is at the time of disclosure, known to the public.
  - ii) Is lawfully becomes at a later date known to the public through no fault of Contractor.
  - iii) Is lawfully possessed by Contractor before receipt thereof from Company.
  - iv) Is disclosed to Contractor in good faith by a third party who has an independent right to such information.
  - v) Is developed by Contractor independently of the information disclosed by Company; or
  - vi) Contractor is required to produce before competent authorities or by court order.

8.0 **TAXES:**

- 8.1 Tax levied as per the provisions of Indian Income Tax Act and any other enactment/rules on income derived/payments received under the contract will be on Contractor's account.
- 8.2 Contractor shall be responsible for payment of personal taxes, if any, for all the personnel deployed in India.
- 8.3 The contractor shall furnish to the company, if and when called upon to do so, relevant statement of accounts or any other information pertaining to work done under the contract for submitting the same to the Tax authorities, on specific request from them. Contractor shall be responsible for preparing and filing the return of income etc. within the prescribed time limit to the appropriate authority.

- 8.4 Prior to start of operations under the contract, the contractor shall furnish the company with the necessary documents, as asked for by the company and/ or any other information pertaining to the contract, which may be required to be submitted to the Income Tax authorities at the time of obtaining "No Objection Certificate" for releasing payments to the contractor.
- 8.5 Tax clearance certificate for personnel and corporate taxes shall be obtained by the contractor from the appropriate Indian Tax authorities and furnished to company within 6 months of the expiry of the tenure of the contract or such extended time as the company may allow in this regard.
- 8.6 Corporate income tax will be deducted at source from the invoice at the specified rate of income tax as per the provisions of Indian Income Tax Act as may be in force from time to time.
- 8.7 Corporate and personal taxes on contractor shall be the liability of the contractor and the company shall not assume any responsibility on this account.
- 8.8 All local taxes, levies and duties, sales tax, octroi, etc. on purchases and sales made by contractor shall be borne by the contractor. Customs duty on imported goods however shall be to Company's account.
- 8.9 **Service tax:** Service Tax as applicable shall be on Company's account.
- 9.0 **INSURANCE:**
- 9.1 The contractor shall arrange insurance to cover all risks in respect of their personnel, materials and equipment belonging to the contractor or its subcontractor during the currency of the contract including the third part items/consumables.
- 9.2 Contractor shall at all time during the currency of the contract provide, pay for and maintain the following insurances amongst others:
- a) Workmen compensation insurance as required by the laws of the country of origin of the employee.
  - b) Employer's Liability Insurance as required by law in the country of origin of employee.
  - c) General Public Liability Insurance covering liabilities including contractual liability for bodily injury, including death of persons, and liabilities for damage of property. This insurance must cover all operations of Contractor required to fulfill the provisions under this contract.
  - d) Contractor's equipment used for execution of the work hereunder shall have an insurance cover with a suitable limit (as per international standards).
  - e) Automobile Public Liability Insurance covering owned, non-owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits and property damage limits shall be governed by Indian Insurance regulations.

- f) Public Liability Insurance as required under Public Liability Insurance Act 1991.
- 9.3 Contractor shall obtain additional insurance or revise the limits of existing insurance as per Company's request in which case additional cost shall be to Contractor's account.
- 9.4 Any deductible set forth in any of the above insurance shall be borne by Contractor.
- 9.5 Contractor shall furnish to Company prior to commencement date, certificates of all its insurance policies covering the risks mentioned above.
- 9.6 If any of the above policies expire or are cancelled during the term of this contract and Contractor fails for any reason to renew such policies, then the Company will renew/replace same and charge the cost thereof to Contractor. Should there be a lapse in any insurance required to be carried by Contractor for any reason whatsoever, loss/damage claims resulting there from shall be to the sole account of Contractor.
- 9.7 Contractor shall require all of their sub-contractor to provide such of the foregoing insurance coverage as Contractor is obliged to provide under this Contract and inform the Company about the coverage prior to the commencement of agreements with its sub-contractors.
- 9.8 All insurance taken out by Contractor or their sub-contractor shall be endorsed to provide that the underwriters waive their rights of recourse on the Company.
- 10.0 **CHANGES:**
- 10.1 During the performance of the work, Company may make a change in the work within the general scope of this Contract including, but not limited to, changes in methodology, and minor additions to or deletions from the work to be performed. Contractor shall perform the work as changed. Changes of this nature will be affected by written order by the Company.
- 10.2 If any change result in an increase in compensation due to Contractor or in a credit due to Company, Contractor shall submit to Company an estimate of the amount of such compensation or credit in a form prescribed by Company. Such estimates shall be based on the rates shown in the Schedule of Rates (Section-IV). Upon review of Contractor's estimate, Company shall establish and set forth in the Change Order the amount of the compensation or credit for the change or a basis for determining a reasonable compensation or credit for the change. If Contractor disagrees with compensation or credit set forth in the Change Order, Contractor shall nevertheless perform the work as changed, and the parties will resolve the dispute in accordance with Clause 13 hereunder. Contractor's performance of the work as changed will not prejudice Contractor's request for additional compensation for work performed under the Change Order.

11.0 **FORCE MAJEURE:**

11.1 In the event of either party being rendered unable by 'Force Majeure' to perform any obligation required to be performed by them under the contract, the relative obligation of the party affected by such 'Force Majeure' will stand suspended as provided herein. The word 'Force Majeure' as employed herein shall mean acts of God, war, revolt, agitation, strikes, riot, fire, flood, sabotage, civil commotion, road barricade (but not due to interference of employment problem of the Contractor) and any other cause, whether of kind herein enumerated or otherwise which are not within the control of the party to the contract and which renders performance of the contract by the said party impossible.

11.2 Upon occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within 24(twenty four) hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.

11.3 Should 'force majeure' condition as stated above occurs and should the same be notified within twenty four (24) hours after its occurrence the 'force majeure' rate shall apply for the first ten days. Either party will have the right to terminate the Contract if such 'force majeure' conditions continue beyond ten (10) days with prior written notice. Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of ten- (10) days force majeure period unless otherwise agreed to.

12.0 **TERMINATION:**

12.1 **TERMINATION ON EXPIRY OF THE TERMS (DURATION):** The contract shall be deemed to have been automatically terminated on the expiry of duration of the Contract or extension, if any, thereof, whichever is earlier.

12.2 **TERMINATION ON ACCOUNT OF FORCE MAJEURE:** Either party shall have the right to terminate the Contract on account of Force Majeure as set forth in Para 11.0 above.

12.3 **TERMINATION ON ACCOUNT OF INSOLVENCY:** In the event that the Contractor at any time during the term of the Contract, becomes insolvent or makes a voluntary assignment of its assets for the benefit of creditors or is adjudged bankrupt, then the Company shall, by a notice in writing have the right to terminate the Contract and all the Contractor's rights and privileges hereunder, shall stand terminated forthwith.

12.4 **TERMINATION FOR UNSATISFACTORY PERFORMANCE:** If the Company considers that, the performance of the Contractor is unsatisfactory, or not upto the expected standard, the Company shall notify the Contractor in writing and specify in details the cause of the dissatisfaction. The Company shall have the option to terminate the Contract by giving 15 days notice in writing to the Contractor, if Contractor fails to comply with the requisitions contained in the said written notice issued by the Company.

- 12.5 **TERMINATION DUE TO CHANGE OF OWNERSHIP & ASSIGNMENT:** In case the Contractor's rights and / or obligations under the Contract and/or the Contractor's rights, title and interest to the equipment/material, are transferred or assigned without the Company's consent, the Company may at its absolute discretion, terminate the Contract.
- 12.6 If at any time during the term of the Contract, breakdown of Contractor's equipment results in Contractor being unable to perform their obligations hereunder for a period of 15 successive days, Company at its option may terminate this Contract in its entirety without any further right or obligation on the part of the Company except for the payment of money then due. No notice shall be served by the Company under the condition stated above.
- 12.7 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the company on giving 30 (thirty) days written notice to the Contractor due to any other reason not covered under the above clause from 12.1 to 12.6 and in the event of such termination the Company shall not be liable to pay any cost or damage to the Contractor except for payment for services as per the Contract upto the date of termination.
- 12.8 **CONSEQUENCES OF TERMINATION:** In all cases of termination herein set forth, the obligation of the Company to pay for Services as per the Contract shall be limited to the period upto the date of termination. Notwithstanding the termination of the Contract, the parties shall continue to be bound by the provisions of the Contract that reasonably require some action or forbearance after such termination.
- 12.9 Upon termination of the Contract, Contractor shall return to Company all of Company's items, which are at the time in Contractor's possession.
- 12.10 In the event of termination of contract, Company will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract shall then stand terminated and the Contractor shall demobilise their personnel & materials.
- 13.0 **SETTLEMENT OF DISPUTES AND ARBITRATION:** All disputes or differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration in accordance with the Rules of Indian Arbitration and Conciliation Act, 1996. The venue of arbitration will be Duliajan, Assam. The award made in pursuance thereof shall be binding on the parties.

14.0 **NOTICES:**

14.1 Any notice given by one party to other, pursuant to this Contract shall be sent in writing or by telex or Fax and confirmed in writing to the applicable address specified below:

**Company**

a) **For contractual matters**

Head (Contracts)  
OIL INDIA LIMITED  
PO DULIAJAN - 786602  
ASSAM, INDIA  
Fax No. 91-374-2803549  
Email: contracts@oilindia.in

b) **For technical matters**

ED(Drilling)  
OIL INDIA LIMITED  
PO Duliajan - 786602,  
Assam, India  
Fax No. 91-374-2804254  
Email: drilling@oilindia.in

c) **Contractor**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Fax No. :  
Tel No. :  
E-mail :

14.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

15.0 **SUBCONTRACTING/ASSIGNMENT:** Contractor shall not subcontract, transfer or assign the contract, or any part under this contract, to any third party(ies) except with Company's prior written consent. Except for the main drilling services under this contract, Contractor may sub-contract the petty support services subject to Company's prior approval. However, Contractor shall be fully responsible for complete execution and performance of the services under the Contract.

16.0 **MISCELLANEOUS PROVISIONS:**

16.1 Contractor shall give notices and pay all fees at their own cost required to be given or paid by any National or State Statute, Ordinance, or other Law or any regulation, or bye-law of any local or other duly constituted authority as may be in force from time to time in India, in relation to the performance of the services and by the rules & regulations of all public bodies and companies whose property or rights are affected or may be affected in any way by the services.

16.2 Contractor shall conform in all respects with the provisions of any Statute, Ordinance of Law as aforesaid and the regulations or bye-law of any local or other duly constituted authority which may be applicable to the services and with such rules and regulation, public bodies and Companies as aforesaid and shall keep Company indemnified against all penalties and liability of every kind for breach of any such Statute, Ordinance or Law, regulation or bye-law.

- 16.3 During the tenure of the Contract, Contractor shall keep the site where the services are being performed reasonably free from all unnecessary obstruction and shall store or dispose of any equipment and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works no longer required. On the completion of the services, Contractor shall clear away and remove from the site any surplus materials; rubbish or temporary works of every kind and leave the whole of the site clean and in workmanlike condition to the satisfaction of the Company.
- 16.4 Key personnel cannot be changed during the tenure of the Contract except due to sickness/death/resignation of the personnel in which case the replaced person should have equal experience and qualification, which will be again subject to approval, by the Company.
- 17.0 **LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY MOBILISATION:**
- 17.1 Time is the essence of this Contract. In the event of the Contractor's default in timely mobilization for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages @ 1/2% of 1<sup>st</sup> year contract value including mobilization cost, per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilisation period till the date of commencement of Contract as defined in Clause No. 2.0 of Section - I.
- 17.2 The Company also reserves the right to cancel the Contract without any compensation whatsoever in case of failure to mobilize and commence operation within the stipulated period.
- 18.0 **PERFORMANCE SECURITY:** The Contractor shall furnish to Company a Bank Guarantee for 7.5% of the estimated Contract Cost for 1st year, with validity of 6(six) months beyond the contract period including warranty obligation, if any. The performance security shall be payable to Company as compensation for any loss resulting from Contractor's failure to fulfill their obligations under the Contract. In the event of any extension of the Contract period, Bank Guarantee should be extended by the period equivalent to the extended period of the contract. The bank guarantee will be discharged by Company not later than 30 days following its expiry.
- 19.0 **ASSOCIATION OF COMPANY'S PERSONNEL:** Company's engineer will be associated with the work throughout the operations. The Contractor shall execute the work with professional competence and in an efficient and workman like manner and provide Company with a standard of work customarily provided by reputed drilling Contractors to major international oil companies in the petroleum industry.
- 20.0 **LABOUR:** The recruitment of the labour shall be met from the areas of operation and wages will be according to the rates prevalent at the time which can be obtained from the District Authorities of the area. The facilities to be given to the labourers should conform to the provisions of labour laws as per contract Labour (Regulation and Abolition) Act, 1970.



21.0 **LIABILITY:**

- 21.1 Except as otherwise expressly provided, neither Company nor its servants, agents, nominees, Contractors, or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss of or damage to the property of the Contractor and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Company and/or its servants, agent, nominees, assignees, contractors and sub-Contractors. The Contractor shall protect, defend, indemnify and hold harmless Company from and against such loss or damage and any suit, claim or expense resulting there from.
- 21.2 Neither Company nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the Contractor and/or of its Contractors or sub-contractor irrespective of how such injury, illness or death is caused and even if caused by the negligence of Company and/or its servants, agents nominees, assignees, Contractors and sub-contractors. Contractor shall protect, defend, indemnify and hold harmless Company from and against such liabilities and any suit, claim or expense resulting there from.
- 21.3 The Contractor hereby agrees to waive its right to recourse and further agrees to cause their underwriters to waive their right of subrogation against Company and/or its underwrites, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of the Contractor and/or its sub-contractors when such loss or damage or liabilities arises out of or in connection with the performance of the contract.
- 21.4 The Contractor hereby further agrees to waive its right of recourse and agrees to cause its underwriters to waive their right of subrogation against Company and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Contractor and of its Contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the contract.
- 21.5 Except as otherwise expressly provided, neither Contractor nor its servants, agents, nominees, Contractors or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss or damage to the property of the Company and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. The Company shall protect, defend, indemnify and hold harmless Contractor from and against such loss or damage and any suit, claim or expense resulting there from.

- 21.6 Neither Contractor nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever to whomsoever or injury or illness, or death of any employee of the Company and/or of its Contractors or sub-contractors irrespective of how such injury, illness or death is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. Company shall protect, defend indemnify and hold harmless Contractor from and against such liabilities and any suit, claim or expense resulting there from.
- 21.7 The Company agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against Contractor and /or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of Company and/or its contractors or sub-contractors when such loss or damage or liabilities arises out of or in connection with the performance of the contract.
- 21.8 The Company hereby further agrees to waive its right of recourse and agrees to cause it underwriters to waive their right of subrogation against Contractor and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Company and of its Contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the Contract.
- 22.0 **CONSEQUENTIAL DAMAGE:** Neither party shall be liable to the other for special, indirect or consequential damages resulting from or arising out of the contract, including but without limitation, to loss or profit or business interruptions, howsoever caused and regardless of whether such loss or damage was caused by the negligence (either sole or concurrent) of either party, its employees, agents or sub-contractors.
- 23.0 **INDEMNITY AGREEMENT:**
- 23.1 Except as provided hereof Contractor agrees to protect, defend, indemnify and hold Company harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Contractor's employees, agents, contractors and sub-contractors or their employees on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.
- 23.2 Except as provided hereof Company agrees to protect, defend, indemnify and hold Contractor harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Company's employees, agents, contractors and sub-contractors or their employees on account of bodily injury or death, or damage to personnel/property as a

result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

24.0 **INDEMNITY APPLICATION:** The indemnities given herein above, whether given by Company or Contractor shall be without regard to fault or to the negligence of either party even though said loss, damage, liability, claim, demand, expense, cost or cause of action may be caused, occasioned by or contributed to by the negligence, either sole or concurrent of either party.

25.0 **PAYMENTS, MANNER OF PAYMENT, RATES OF PAYMENT, SET-OFF:**

25.1 Company shall pay to the Contractor during the term of the Contract the amount due from time to time calculated according to the rates of payment set and in accordance with other provisions hereof. No. other payments shall be due from company unless specifically provided for in the Contract. Payment to the third party supplier(s) of the items/consumables shall be made after receipt of goods at site at Duliajan duly certified by authorized personnel of the Company. All payments will be made in accordance with the terms hereinafter described.

**25.2 MANNER OF PAYMENT:** All payments due by company to Contractor hereunder shall be made at Contractor's designated bank. Bank charges, if any will be on account of the Contractor.

25.3 Payment of any invoices shall not prejudice the right of company to question the validity of any charges therein, provided company within one year after the date of payment shall make and deliver to contractor written notice of objection to any item or items the validity of which Company questions.

**25.4 INVOICES:** Mobilization charges will be invoiced only upon completion of mobilization when the entire equipment, chemicals and personnel are ready at site for starting the job as certified by company representative. Payment of mobilization charges shall be made within 45 days following the date of receipt of undisputed invoices by Company.

25.5 Contractor shall send invoice to company on the day following the end of each month for all daily or monthly charges due to the contractor.

25.6 Contractor will submit six sets of all invoices duly super scribed 'Original' and 'copy' as applicable to the company for processing payment. Separate invoices for the charges payable under the contract shall be submitted by the Contractor for foreign currency and Indian currency.

25.7 Payment of monthly invoices, if undisputed, shall be made within 30 days following the date of receipt of invoice by Company.

25.8 Company shall within 30 days of receipt of the invoice notify the contractor of any item under dispute, specifying the reasons thereof, in which event, payment of the disputed amount may be withheld until settlement of the dispute, but payment shall be made of any undisputed portion on or before

the due date. This will not prejudice the company's right to question the validity of the payment at a later date as envisaged in Clause 25.6 above.

25.9 The acceptance by Contractor of part payment on any billing not paid on or before the due date shall not be deemed a waiver of Contractor's rights in any other billing, the payment of which may then or thereafter be due.

25.10 Payment of demobilization charges shall be made when applicable within 45 days following receipt of invoice by Company accompanied by the following documents from the Contractor :

- a) Audited account up to completion of the Contract.
- b) Tax audit report for the above period as required under the Indian Tax Laws.
- c) Documentary evidence regarding the submission of returns and payment to taxes for the expatriate personnel engaged by the Contractor or by its sub-contractor.
- d) Proof of re-export of all items including the unutilized spares and consumables (excepting consumables consumed during the contract period) and also cancellation of re-export bond if any.
- e) Any other documents as required by applicable Indian Laws.

In case, no demobilization charges are payable, the documents mentioned above will have to be submitted by the Contractor before release of the final payment by the Company. A certificate from Chartered Accountant on (a), (b) & (c) above will suffice

25.11 Contractor shall maintain complete and correct records of all information on which contractor's invoice are based upto 2 (two) years from the date of last invoice. Such records shall be required for making appropriate adjustments or payments by either party in case of subsequent audit query / objection.

25.12 **SET-OFF** : Any sum of money due and payable to the Contractor (including Performance Security refundable to them) under this or any other Contract may be appropriated by OIL and set-off against any claim of OIL (or such other person or persons contracting through OIL) for payment of a sum of money arising out of this contract or under any other contract made by the Contractor with OIL (or such other person or persons contracting through OIL).

25.13 **SUBSEQUENTLY ENACTED LAWS**: Subsequent to the submission of Bidder's bid, if there is a change in or enactment of any law or interpretation of existing law, which results in additional cost/reduction in cost to Contractor on account of the operation under the Contract the company/Contractor shall reimburse/pay Contractor / company for such additional / reduced costs actually incurred.

## **26.0 WITH-HOLDING:**

26.1 Company may withhold or nullify the whole or any part of the amount due to Contractor on account of subsequently discovered evidence in order to protect Company from loss on account of: -

- a) For non-completion of jobs assigned as per Section II.
- b) Contractor's indebtedness arising out of execution of this Contract.
- c) Defective work not remedied by Contractor.
- d) Claims by sub-Contractor of Contractor or others filed or on the basis of reasonable evidence indicating probable filing of such claims against Contractor.
- e) Failure of Contractor to pay or provide for the payment of salaries/wages, contributions, unemployment compensation, and taxes or enforced savings withheld from wages etc.
- f) Failure of Contractor to pay the cost of removal of unnecessary debris, materials, tools, or machinery.
- g) Damage to another Contractor of Company.
- h) All claims against Contractor for damages and injuries, and/or for non-payment of bills etc.
- i) Any failure by Contractor to fully reimburse Company under any of the indemnification provisions of this Contract. If, during the progress of the work Contractor shall allow any indebtedness to accrue for which Company, under any circumstances in the opinion of Company may be primarily or contingently liable or ultimately responsible and Contractor shall, within five days after demand is made by Company, fail to pay and discharge such indebtedness, then Company may during the period for which such indebtedness shall remain unpaid, withhold from the amounts due to Contractor, a sum equal to the amount of such unpaid indebtedness.

Withholding will also be effected on account of the following: -

- i) Order issued by a Court of Law in India.
- ii) Income tax deductible at source according to law prevalent from time to time in the country.
- iii) Any obligation of Contractor which by any law prevalent from time to time to be discharged by Company in the event of Contractor's failure to adhere to such laws.
- iv) Any payment due from Contractor in respect of unauthorised imports.

When all the above grounds for withholding payments shall be removed, payment shall thereafter be made for amounts so withhold. Notwithstanding the foregoing, the right of Company to withhold shall be limited to damages, claims and failure on the part of Contractor, which is directly/ indirectly related to some negligent act or omission on the part of Contractor.

## **27.0 APPLICABLE LAW:**

27.1 The Contract shall be deemed to be a Contract made under, governed by and construed in accordance with the laws of India for the time being in force and shall be subject to the exclusive jurisdiction of Courts situated in Dibrugarh / Guwahati.

- 27.2 The Contractor shall ensure full compliance of various Indian Laws and Statutory Regulations, to the extent applicable, as stated below, but not limited to, in force from time to time and obtain necessary permits/licenses etc. from appropriate authorities for conducting operations under the Contract:
- a) The Mines Act - as applicable to safety and employment conditions.
  - b) The Minimum Wages Act, 1948.
  - c) The Oil Mines Regulations, 1983.
  - d) The Workmen's Compensation Act, 1923.
  - e) The Payment of Wages Act, 1963
  - f) The Payment of Bonus Act, 1965
  - g) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed there under
  - h) The Employees Pension Scheme, 1995
  - i) The Interstate Migrant Workmen Act., 1979 (Regulation of employment and conditions of service)
  - j) The Employees Provident Fund and Miscellaneous Provisions Act, 1952
  - k) The AGST Act
  - l) Service Tax Act
  - m) Customs & Excise Act & Rules
  - n) Assam Entry Tax Act, 2001
- 27.3 The Contractor shall not make Company liable to reimburse the Contractor to the statutory increase in the wage rates of the contract labour appointed by the Contractor. Such statutory or any other increase in the wage rates of the contract labour shall be borne by the Contractor.
- 27.4 Any permission from the Mines Directorate in connection with working in excess of 8 (eight) hours per day shift pattern by the Contractor shall have to be arranged by the Contractor before commencement of the Contract, in consultation with the Company. Moreover, since the Contractor's personnel engaged shall be working under the Mines Act and Oil Mines Regulations, the Contractor shall have to obtain any other relevant permission from the Mines Directorate to engage their employees in compliance with various procedures as per Mines Act. In case of any breach of procedures under Mines Act the Contractor shall be held responsible and they shall bear all expenses arising as a result thereof.
- 27.5 The Contractor shall not engage labour below 18 (eighteen) years of age under any circumstances. Persons above 60 years age also shall not be deployed excepting Rig Manager/Rig Superintendent.
- 27.6 Moreover, the Contractor should obtain and produce in advance to commencement of Work the following certificate / approvals:
- (i) Approval from DGMS/DDMS for shift patterns in excess of 8 hours.
  - (ii) Total manpower list.
  - (iii) License/certificate from specified electrical authorities for the rig and camp electrical personnel, if required.
  - (iv) All certificates as per applicable laws including Mines Acts.
  - (v) Regional Labour certificate, if required.

28.0 **RECORDS, REPORTS AND INSPECTION:**

The Contractor shall, at all times, permit the Company and its authorized employees and representatives to inspect all the Work performed and to witness and check all the measurements and tests made in connection with the said work. The Contractor shall keep an authentic, accurate history and logs including safety records of each well, which shall be open at all reasonable times for inspection by the Company designated representatives and its authorized employees and representatives. The Contractor shall provide the Company designated representatives with a daily written report, on form prescribed by the Company showing details of operations during the preceding 24 hours and any other information related to the said well requested by the Company whenever so requested. The Contractor shall not, without Company's written consent allow any third person(s) access to the said well, or give out to any third person information in connection therewith.

**END OF SECTION – I**

**&&&&**

## **SECTION - II**

### **TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS**

#### **1.0 INTRODUCTION:**

OIL INDIA LIMITED, (OIL), an integrated National E&P Company has been carrying out oil exploration & development activities since early fifties. Also it is engaged in production & transportation of crude oil & natural gas. OIL has major share of its E&P activities in Assam & Arunachal Pradesh besides activities in rest of India.

In order to boost up production level of crude oil OIL intends to hire one set of Rotary Steerable Systems with SDMM for drilling 12¼" hole with Directional + Gamma tools and one set each of RSS tool with SDMM for 8 ½" and 6" hole sizes with directional + LWD sensors along with services for PEL / ML areas for Horizontal Drilling activity" combined with "High-Tech Deviation Drilling activity" (i.e. High angle high displacement well, Re-entry well, Multi-lateral well, Side Track well etc.). BIDDER to provide RSS and SDMM with MWD / LWD equipments of following specifications along with Services of Rotary Steerable Directional Drillers and MWD Engineers.

#### **2.0 AREA OF OPERATION:**

2.1 The area of the operation as planned is in Upper Assam, Assam State and mostly in the districts of Dibrugarh, Tinsukia and Sibsagar. The services may also be moved to any other North Eastern States as per OIL's operation program.

#### **3.0 BROAD SCOPE OF WORK:**

OIL intends to hire expert services with equipment and associated services along with consumables for drilling both "Horizontal & other High-Tech Deviated wells". The Contractor shall offer their services as detailed below utilizing OIL's own Rig package and OIL's or its Contractor's manpower. Under the contractor, the contractor shall have to provide the following services with their tools & equipments:

#### **3.1 RSS and SDMM with MWD for drilling 12 ¼" hole size:-**

- i. Tools & equipment for Rotary Steerable Tools and SDMM to be provided for drilling 12¼" hole having directional and Gamma ray tool in the system. System should be capable of building, holding and dropping well angle and should be capable of simultaneously changing azimuth in rotary drilling mode. System should responds to downlink command given from surface in real time and should perform to desired command down hole. System to transmit data from down hole in real time on continuous basis. System to be complete with one surface unit with necessary computers, monitors printers, plotters etc and other equipments as necessary to execute the job. System should have two way communication system i.e. real time up link and down link facility for data transmission and for sending command to the bottom hole tools with mud pulse telemetry. No other system will be acceptable. Down linking facility can be provided either by a separate skid



mounted unit or by flow rate change of mud pumps. System should be able to drill cement, float collar, float shoe and formation.

- ii. One set of tools & equipment shall consists of one surface unit, 1 strings of RSS or/and SDMM for 12¼" hole size , MWD, one numbers of 8" drilling jar. RSS or SDMM will be put to use for operation from one well to another subject to OIL's requirement . BIDDER has to bring sufficient back up tools for uninterrupted operations. Servicing of tools will be allowed at no workload period.
- iii. Service of Rotary Steerable system/ SDMM Directional Drillers and MWD Engineers are to be provided for execution of drilling program as per plans of OIL. Two RSS or SDMM directional drillers and two MWD Engineers are required to be provided always.
- iv. Wells will be drilled up to 13 3/8" casing by OIL prior to being handed over to the BIDDER for 12¼" hole drilling.
- v. 12¼" section hole will be planned, designed and drilled by the Contractor by SDMM / Rotary steerable system in consultation with OIL. Phase length of a well may be from 1500 - 2500 M or more.
- vi. Rotary Steerable Tools should be best in class tools of BIDDER's engaged in the business. System to be efficient in drilling ERD well of sail angle 55° - 85° having section length of 1500-2500 m. System should be able to kick off the well from vertical. Directional, gamma ray tools should be integrated part of steerable system.

### **3.2 RSS and SDMM with MWD and LWD for drilling 8 ½" hole size:-**

- i) 1 SDMM and Rotary Steerable tool to be provided for drilling 8½" hole with real time directional, Gamma, Resistivity, density (four quadrants), neutron porosity, and APWD measurement system. System should have two way communication system i.e. real time up link and down link facility with mud pulse telemetry. Down linking can be provided either by a separate skid mounted unit or by flow rate change by mud pumps. System should be able to build, hold, and drop angle and change azimuth simultaneously by command given from surface. System should be able to drill cement, float collar, float shoe and formation.
- ii) One set consists of one surface unit, 1 strings of RSS or/and SDMM, MWD + LWD, APWD and one numbers of 6 ¾" drilling jar. RSS or SDMM will be put to use for operation from one well to another subject to OIL'S requirement. BIDDER has to bring sufficient back up tools for uninterrupted operations. Servicing of tools will be allowed at no workload period.
- iii) LWD Measurements  
Resistivity, Gamma ray, density and neutron logging are required for 8½" hole size and should be combinable & compatible with MWD and other LWD

equipments. The provision of real time data transmission should exist. Data is also to be recorded in memory mode as well. Data also is to be recorded while pulling out by back reaming / with pump-on. Tools should work with temperature of 140° C or more, Pressure rating: 18000 PSI or more, Tool curvature: 6.5° / 100' (Rotary) or better.

- iv) Resistivity Measurement:
  - a) To be recorded in Multiple frequencies and in multiple depth of investigations
  - b) Bore-hole compensated phase & attenuation measurement systems with multiple depths of investigation
  - c) Resistivity measurement: 0.2 to 2000 Ohm-m
  - d) Invasion Profile with curve separation.
- v) Azimuthal Density with Imaging and Neutron Porosity shall be as follows:
  - a) Azimuthal Density Range = 1.8 to 2.8 gm/cc
  - b) Pe = 1 to 10 units
  - c) Neutron porosity = -6 to 54 P.U. or 0 to 60 P.U.
  - d) Azimuthal density from four quadrant and images are to be provided as per the operational requirement with 16 BINS measurement and real time transmission at a rate of 4 BINS / 4 Sectors or more.
  - e) Ultra Sonic/ Density derived Caliper Log to be provided.
- vi) Service of SDMM / rotary steerable directional drillers and LWD Engineers are to be provided for execution of drilling programme. Two directional drillers and two LWD engineers are required to be provided always.
- vii) 8. ½" section will be planned, designed and drilled by the BIDDER by SDMM / Rotary steerable system in consultation with OIL

### **3.3 SDMM and RSS for drilling 6" hole size:-**

- i) SDMM or/and Rotary Steerable tool to be provided for drilling 6" hole with real time directional, Gamma, Resistivity, density (four quadrants), neutron porosity, and APWD measurement system as a complete package. System should have two way communication system i.e. real time up link and down link facility with mud pulse telemetry. Down linking can be provided either by a separate skid mounted unit or by flow rate change by mud pumps. System should be able to build, hold, and drop angle and change azimuth simultaneously by command given from surface. System should be able to drill cement, float collar, float shoe and formation.
- ii) One set consists of 1 strings of RSS or/and and 1 strings of SDMM, MWD + LWD, APWD and one numbers of 4 ¾" drilling jar. RSS OR SDMM will be put to use for operation from one well to another subject to OIL'S requirement. BIDDER has to bring sufficient back up tools for uninterrupted operations. Servicing of tools will be allowed at no workload period.

- iii) System will be utilized mainly in horizontal wells and to drill fishbone multilateral wells having section length of 300 - 800 m. System to be efficient in making open hole horizontal sidetracks for fishbone multilaterals as well as for making laterals from cased horizontal well bore. System should have features of automated close loop deviation control system (i.e. it should have automated directional and inclination hold control) with near bit inclination and azimuthal Gamma measurement within 3 M and 6 M or less respectively from the bit. DLS capability 8° / 30 m or more, Flow rates 200 – 350 GPM or better, Temperature: not less than 140°C, Internal pressure capabilities 18000 psi, LCM pumping capability of 40 ppb or more (maximum as per tool specification) of medium to fine nut.
- iv) Azimuthal Density with Imaging and Neutron Porosity
  - i) Azimuthal Density Range = 1.8 to 2.8 gm/cc
  - ii) Pe = 1 to 10 units
  - iii) Neutron porosity = -6 to 54 P.U. or 0 to 60 P.U.
  - iv) Azimuthal density from four quadrant and images are to be provided as per the operational requirement with 16 BINS measurement and real time transmission at a rate of 4 BINS / 4 Sectors or more.
  - v) Ultra Sonic/ Density derived Caliper Log to be provided.
  - vi) 6" section will be planned design and drilled by the Contractor using SDMM / Rotary steerable system. Phase length of a well may be from 300 to 800 m or more.
  - vi) In case of horizontal well, the Bidder shall have to supply all the completion consumables within a short notice against the purchase order issued by OIL.
  - vii) In case of horizontal well, liner hanger setting tool, liner hanger expert, completion fluid (acid) handling arrangement with fluid engineer are to be supplied by the bidder. Traveling charges and their time of mob/ de-mob of liner hanger expert and fluid engineer are sole responsibility of the bidder.

**NOTE: Bidders/Contractors to note that Company (OIL) at its discretion shall have the right to de-hire the RSS tool along with its accessories at any time during the course of the contract, depending its requirement as decided by Company.**

#### 4.0 **HIRE OF ADDITIONAL SETS OF EQUIPMENT & SERVICES:**

- 4.1 During the currency of the contract OIL may decide to operate one or more high angle-high displacement /High displacement/ Horizontal / side track (open/ cased hole) wells or any other well from kick off to target simultaneously for which OIL may hire one or more additional set of tool, equipment & personnel under the same terms and conditions stipulated in this tender/ contract.

The Contractor should provide all the services under the contract.

**ONLY FOR HORIZONTAL WELL** :- Geological data gathering, study and well design through completion design. Rig Inspection, Submission of report and finalization of well program.

The tentative Horizontal wells, to be drilled are as follows :

Vertical Section : KOP in 12.1/4" hole or 8.1/2" hole.

Kick Off Point (KOP):200 Metre~2000 Metre in 12.1/4" or 8.1/2" hole

True Vertical Depth : 2500 Metre - 3000 Metre (+)

Horizontal Displacement: 1000 Metre ~ 2000 Metre (+)

The above plan may change depending on the well design.

**For high angle-high displacement well**, mobilization of Tool / Equipment/Consumable/Personnel will be as per "General Conditions of the Contract" in Section # I, Clause No. 2.2

- 4.2 The Bidder shall be required to establish their experience in drilling Horizontal and high angle –high displacement well as per

OIL'S requirement utilizing the tools/equipment as submitted by them in their offer details of which are furnished vide Annexures A,B & C

- 4.3 Contractor shall clearly undertake the single point responsibility of completing the work under the contract.

- 4.4 Only for horizontal well:  
The Contractor will carry out following activity in association with OIL.

The activities are :

- (I) The drilling and completion policies of the horizontal wells
- (II) Well trajectory, (KOP, BUR, hole sizes etc)
- (III) Torque and drag, anti-collision analysis
- (IV) Drill string design and BHA requirements
- (V) Intermediate logging requirement, if any
- (VI) MWD, LWD and other equipment requirement with technical details
- (VII) Completion policies,
- (VIII) Option of sail angle drilling / pilot hole drilling

OIL will provide the specification of the rigs already used to drill Horizontal wells, for Contractor to study the same (if necessary) and OIL with Contractor's expert will recommend changes required to make the rig suitable for Horizontal Drilling.

5.0 **WORK SCHEDULE** :

The Work schedule will consist of the following steps:

Contractor shall provide the following services as an integrated package for drilling of horizontal and high angle – high displacement well:

The services are :-

- I) Well Planning Service.
- II) Directional Drilling Service
- III) RSS and SDMM Equipment with Stabilizer & Service
- IV) MWD Equipment & Service for Directional & Gamma Measurement
- V) LWD Equipment & Services for Resistivity
- VI) Drilling Jar with compatible Jar Intensifier & services.
- VII) Liner Hanger with Packer & Services as per selected design (for horizontal well) (Call out Basis)
- VIII) Well Completion Engineering & Service (for horizontal well)(Call out Basis)
- IX) Artificial Lift Equipment & Installation Service (for horizontal well)(Call out Basis)
- X) Whipstock Service - - (Call out Basis)
- XI) Gyro Service - - (Call out Basis)
- XII) Overall Project Management for integration of above Service

**NOTE :**

- i. The utilization of the call out services is OIL's prerogative.
- ii. The kick-off point will be decided and advised by the Contractor. Thereafter, it shall be the responsibility of the Contractor to drill the curve section of hole (12. ¼" OR 8. ½") till target depth (till 90° in case of horizontal well and drill drain hole ( 6" ) at 90° to target depth.)
- iii. Contractor should have adequate maintenance facility for their tools & equipment
- iv. Drill String available with "OIL" for Drilling in 12. ¼", 8. ½" & 6" hole : These details are furnished in Annexure-B.

6.0 The contractor is required to comply with following specified requirement:

- i) To supply/provide assistance for procurement of special materials/ equipment/services, if required, based on the study of Company's Rig package and designing of wells.
- ii) To provide all X-over subs required in between Contractor's drill string to Company's drill string and any other X-over required for MWD/LWD assembly is to be identified and furnished by the Contractor.
- iii) To provide the back up tools/equipment with sufficient spares & consumables to keep the tools in good working condition for smooth operation all the time.
- iv) To provide complete list of all equipment with make and type. The Contractor's declaration on the present condition of the equipment along with the vintage of the equipments shall be submitted to Company.

- v) To provide detailed specification of equipment/sensors along with catalogue and also all the features available in their MWD& LWD system. The Contractor should also indicate the 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; the equipment & sensor must perform accordingly.
- vi) The Contractor shall keep provision of specialty fishing tools including spares required for Contractor's non standard equipment/ tools, if any.
- vii) The minimum drift diameter of Hydro-Mechanical Jar for 8.1/2" Hole should be 2.75".
- viii) Specialized Tools: All crossover subs required from operator's drill string to Contractor's drill string and any other special crossover etc. including Non magnetic drill collar are to be identified and furnished by the Contractor. Any other specialized tools, required for smooth execution of the Contract shall be responsibility of the Contractor.
- ix) Any bidder not quoting for all the services as per the Scope of work (including Optional services) will be considered non responsive.

#### 7.0 **DETAILS OF EQUIPMENT & SERVICES REQUIREMENT:**

The Contractor shall provide the following services:

(i) **Well Planning Services:**

Contractor shall use latest software for well planning and designing of directional wells and should have BHA Design, Torque & Drag, hydraulics and anti-collision analysis etc.

(ii) **MWD equipment along with Surface Equipment and Services : -**

The Contractor shall provide one complete set of Collar based MWD (Measurement While Drilling) System Directional with API Gamma, based on positive pulse, mud telemetry for drilling 8.1/2" & 6" hole as per requirement of OIL provided in the MWD specifications at Annexure # C, along with cross-over subs, Non Magnetic Drill Collars, Float Subs with all sets of electronic packages, surface computers and other accessories along with sufficient spares required for continuous real time monitoring of tool face, inclination, direction ( azimuth ) and Gamma while drilling 8.1/2" & 6" hole for all wells (with an option for 12 1./4" Hole on call out basis). The Contractor shall provide the expert operating personnel along with the equipment for actual job execution. Contractor shall maintain enough back up tools to meet contingent situation like Lost in Hole etc. The Contractor shall be required to maintain sufficient number of "Back - up Tool / Equipment" along with spares for both 8.1/2" & 6" hole at well site / base office so as to ensure un-interrupted horizontal drilling activity considering logistic constraints in the Northeast.

**NOTE:**

- 1) Contractor shall provide Collar based MWD (Measurement While Drilling) System, (Directional + API GAMMA) based on mud pulse telemetry, Real Time online plot of Gamma for TVD and MD, Positive Pulse system, with MTBF (Mean Time Between Failure) exceeding 1000 hrs. The MWD-Gamma-Resistivity tool with "Mud Pulse Telemetry" system shall only be acceptable. However, in case of brand new (Un-used) MWD tool proposed to be deployed by the Contractor against this contract, the MTBF certificate is then not relevant.
- 2) To this effect, bidder should provide documentary evidence in the technical bid, literature of MWD showing all specifications listed in this TOR (Terms of Reference) and Schematic diagram showing each component.

(iii) **SDMM equipment along with Services :**

The Contractor shall provide Steerable Downhole Positive Displacement Mud motors with all accessories e.g. stabilizers etc as per requirement of OIL provided at Annexure # D for 8.1/2" and 6" hole sizes (with an option of drilling 12 .1/4" hole on call out basis). The directional drillers are required to operate the motors and drill the hole as per plans, which would be provided by the Contractor for contract execution. The motors should be with built-in bearing Stabilizer housing & adjustable bent housing with suitable build up rates & straight drilling in rotary mode. The steerable downhole mud motors should be with mud lubricated bearing assembly. The motors should have API rotary shoulder connections. SDMM should be equipped with rotor catcher feature.

Contractor shall maintain enough back up tools to meet contingent situation like tool failure, Loss in Hole etc. The Contractor shall be required to maintain sufficient number of "Back-up Tool / Equipment" along with spares for both 8.1/2" & 6" hole at well site / base office so as to ensure uninterrupted horizontal drilling activity considering logistic constraints of the Northeast

**NOTE:**

To this effect, bidder should provide documentary evidence in the technical bid, literature of SDMM showing all specifications listed in this TOR (Terms of Reference) and Schematic diagram showing each component.

iv) **DIRECTIONAL DRILLERS:**

Bidder will provide with 2 experienced (minimum 5 years experience) Directional Drillers on call out basis per set to execute the job and they will be working independently on a suitable ON/OFF day rotation and on 12-hour shift basis at rigs as per plan given by OIL. He should be able to execute the job of high angle-high displacement/high displacement/Horizontal/side track wells (open/cased hole) or any other well from kick off to target on continuous basis at a rig with tools provided by Bidder. They should have complete knowledge of the job from planning to execution along with associated calculations and decision making so that

they can perform the job independently. He should be able to carry out sidetrack jobs either from open hole or cased hole with/without Whipstock for directional operations. Directional drillers should be capable of associated decision making and calculations required for the job and will take necessary decision during the course of drilling the well. However in case of operational problems, OIL's decision will be final.

The Directional Drillers will work in close liaison with OIL Engineers on rig/base. They should be fluent in speaking and writing English language. Field Engineers should be conversant with the job assigned and should have complete knowledge of the equipment being supplied by the Bidder. OIL reserves the right to modify its requirement of on-site Directional Drillers anytime.

(v) **Drilling Jars, Intensifier and Services :-**

The Contractor shall provide Hydro-mechanical/Hydraulic Drilling jars along with Intensifier specially engineered to withstand the rugged abuse and demanding application with up/down stroke mechanism, minimum stroke length as per requirement of OIL provided in Annexure-E, for 8.1/2" and 6" hole sizes (with an option of drilling 12.1/4" hole on call out basis). The Contractor shall be required to maintain sufficient number of "Back - up Tool / Equipment" along with spares for both 8.1/2" & 6" hole at well site/ base office so as to ensure un-interrupted horizontal drilling activity considering logistic constraints of the Northeast.

**NOTE:**

To this effect the bidder should provide documentary evidence in the technical bid, literature of Drilling Jar showing all specifications listed in this TOR and Schematic diagram showing each component

(vi) **LWD Equipment along with Services :**

Contractor will provide Resistivity Tool compatible to the offered MWD tool. The surface system for Resistivity and MWD with Gamma should be same. The Resistivity services will be used along with MWD so that the well can be landed through 8.1/2" hole (curve section) in the pay-zone with reasonable accuracy. The Company will have the option to use the Resistivity Tool in the Horizontal section (6" Drain hole) also, depending on the requirement. The Contractor shall provide the Company with real time Resistivity Log Vs True Vertical Depth and Measured Well Depth for reservoir boundary identification. The Resistivity measurement shall be as per requirement of OIL provided in Annexure - F. Bidder will maintain enough back up tools to meet contingent situation like Lost in Hole / Tool failure etc. The Contractor shall be required to maintain sufficient number of "Back - up Tool / Equipment" along with spares for both 8.1/2" & 6" hole at well site / base office so as to ensure un-interrupted horizontal drilling activity considering logistic constraints of the Northeast. LWD engineer should have at least 3 years experience in operating LWD tool and should be responsible for successful logging operation.



OIL reserves the right to use the resistivity tool in the sail angle or pilot hole option also.

**NOTE:**

- a) The key down hole Tool (RSS-SDMM-MWD-LWD-Gamma-Jar-Intensifier-Resistivity) should not be older than 5 years and manufacturer's certificate (not service Company's certificate) clearly certifying the vintage of each tool should be provided.
- b) Calibration certificates for accuracy of Measurement should not be older than 6 months. Contractor shall provide Calibration certificate of each down-hole tool (MWD, Gamma, Resistivity) showing Inclination, Tool face, Dip angle and accuracies.
- c) The SDMM/ MWD/Jar/Intensifier/Resistivity tool provided by the Contractor shall be supported with spares and service during the duration of the Contract. Jar has to be tested and certified before running into the hole.
- d) All tools / equipment and consumables deployed by the Contractor should meet OIL's specified requirement.

(vii) **MWD/LWD Engineers:**

Bidder will provide qualified, skilled and experienced MWD/LWD Engineers (Minimum of 3years of experience) on call out basis for OIL's operation. The personnel will be required to work on a suitable ON/OFF-day rotation. They must have documented training and experience (curriculum vitae) verifying their ability to operate the modern DD/MWD/LWD logging tools. The engineers must be fluent in written and spoken English. The LWD/MWD Engineer will be responsible including but not limited to the following:

Prepare Logging plan and program,

Run, maintain and manage the MWD/LWD tools and unit,

Prepare daily reports of major real time observations and definition of markers,

Maintain adequate stock and inventory of tools and spares on the Drilling Unit and Shore Base to perform the drilling program,

Ensure adequate spares for all the equipment and tools are available on the Drilling Unit to carry out any repairs without downtime.

- (viii) **ORGANISATIONAL STRUCTURE:** Contractor shall provide the organizational structure to be used for executing the project. Composition of the team & number of personnel will be reviewed by OIL and modified as per requirement.

Base coordinator shall have good knowledge of equipment or services being offered by the contractor and should visit Company's office regularly. Base coordinator shall be nominated before commencement of contract and subsequent replacement shall be informed in advance. Suitable replacement should be provided if he is absent for more than 3 days. Base coordinator shall be well informed about status of contractor's equipment and any other subject relevant to agreement of the contract. Company may seek for replacement in short notice if any deficiency is observed on his part. Company shall not be responsible for delay in processing invoices on time, if Base coordinator is inefficient or absent for long period. He shall also be responsible for keeping contractor's equipment and tool in good working condition with the help of other office/ repair facilities.

- (ix) **Liner Hanger and Setting Tools with Service:**(Call out Basis)  
The Contractor shall provide liner hanger along with shoe, float collar, landing collar, packers and setting tools as per well design of the horizontal wells, along with services for running, testing, and setting of the hangers. The specifications for Liner Hanger with Packer for 7" Liner is attached in Annexure # I.
- (x) **Inflow Control Device :**  
Contractor will provide ICD as well completion for the horizontal section of the wells. The contractor shall provide all consumables like ICD, Shoe, Blank Pipe, ICD hanger Packer along with Setting Tool and Wash Pipe. The contractor also provide running and handling gears that should be complete with but not limited to 4" slip, elevator, false rotary table etc. The specification for ICD is attached in Annexure - J.
- (xi) **Completion Services:**  
Completion services for bringing well on to production including design/provision for artificial lifts, stimulation and other possible future work-over needs shall be provided by the Contractor. The hydraulically set production packer (2.7/8" tubing X 7" liner-29 PPF) and Gas-lift valves with Mandrel (compatible with Gas Lift design) shall be supplied by the Contractor. The Contractor will also suggest to the Company the need for any specialized operation for enhancing productivity of the well as and when required during the currency of contract.
- The tubular for well Completion is 2.7/8" O.D x N-80x EUE tubing.
- (a) Well wise estimated production volume will be provided by OIL and Contractor shall design the ICD completion and artificial lift system of hydraulically set production packer (2.7/8" tubing X 7" liner) and Gas-lift valves on the basis of the same.
- (b) The well completion services shall include Running of ICD, Wash pipe Packer setting & Pressure Testing as per standard of oil industry practice, Gas-Lift performance evaluation and Well Activation".

- (c) Well completion expert from Contractor should have close interaction with personnel from Commissioning & Work-Over section of Production (oil) Department of OIL INDIA LIMITED.

(xiii) **WELL COMPLETION ENGINEERS:**

Bidder will provide qualified, skilled and experienced well completion Engineers (Minimum of 3 years of experience) on call out basis for OIL's operation. They must have documented training and experience (curriculum vitae) verifying their ability. The engineers must be fluent in written and spoken English. The Well completion Engineer's responsibility shall be including but not limited to the following:

- a) Prepare ICD running plan and program,
- b) Run, maintain and manage the ICD running tools and unit,
- c) Prepare daily reports of major real time observations.
- d) Maintain adequate stock and inventory of tools and spares on the Drilling Unit and Base to perform the ICD running program,
- e) Ensure adequate spares for all the equipment and tools are available on the Drilling Unit to carry out any repairs without downtime.

8.0 **Approved list for Tools / Equipment & Services :**

The Contractor should provide Tools / Equipment & Services (mentioned above) from the approved list as shown in the table below :

**SERVICE APPROVED LIST :**

**A. Mud Motor :**

- i) Schlumberger,
- ii) Halliburton,
- iii) Weatherford,
- iv) Baker Hughes,
- v) Bico,
- vi) National Oil Well Varco
- vii) APS Technology Inc.

**B. RSS**

- i) Schlumberger
- ii) Halliburton
- iii) Weatherford
- iv) Baker Hughes
- v) APS Technology Inc.

**C. Drilling Jar:**

- i) Houston Engineers,
- ii) Weatherford,
- iii) National Oil Well varco(Griffith)
- iv) Bowen,

- v) Bico,
- vi) Smith International
- vii) Halliburton Sledgehammer.
- viii) ITS
- ix) APS Technology Inc.

**D. Liner Hanger :**

- i) TIW,
- ii) Smith International,
- iii) Weatherford,
- iv) Baker Hughes
- v) APS Technology Inc.

**E. WhipStock :**

- i) Smith International,
- ii) Weatherford,
- iii) Baker Hughes,
- iv) Catch Fishing Services
- v) APS Technology Inc.

**F. Well completion Service Gas - Lift Valve with Packer :**

- i) Baker Hughes,
- ii) Weatherford,
- iii) Schlumberger,
- iv) TAM Engineering,
- v) World Oil Tools,
- vi) BST California,
- vii) Camco
- viii) APS Technology Inc.

**9.0 CALL OUT SERVICES :**

Call out services shall be quoted by the Bidder as per the price bid format. However Bidders are advised to quote the most competitive price as per the "PRICE FORMAT - OPTIONAL SERVICES". It will be mandatory for all bidders to offer these optional services with detailed technical description. OIL retains the prerogative for utilization of these optional services described below on "CALL-OUT" basis. Contractor is required to give an undertaking to mobilize one or more of under noted optional services within 45 days from the date of call notice issued by OIL.

In the event of the Contractor's default in timely mobilization of the optional services within the stipulated period, liquidated damages @ 1/2% of 1<sup>st</sup> year contract of all the Optional services including mobilization cost, per week or part thereof of delay subject to maximum of 7.5% shall be applicable. Liquidated Damages will be reckoned from the date of notice issued by OIL till the optional service is available at OIL's site at Duliajan ready for commencing the job.

9.1 **WHIPSTOCK SERVICES ( for 9.5/8" casing & 7" casing ) :**

Contractor shall be required to provide these services as OPTIONAL on call out (i.e. as and when required) basis. Contractor shall mobilize required equipment and operators for these services within 60 days from the date of the call notice issued by OIL.

OIL will require the Whipstock service to sidetrack either from inside the 9.5/8" casing or from inside 7" casing. Contractor shall be required to provide the services of window milling the 9 5/8" casing / 7" casing to provide the window for sidetracking with 8.1/2" hole / 6" hole respectively as the case may be. Whipstock shall be Single run, Hydraulic set, non-retrievable system, complete with Hydraulic Packer and window milling equipment (for 9 5/8" casing X 47 PPF & 7" casing X 29 PPF).

The Whip stock service shall be provided with Gyroscopic Survey System as a complete package. One complete set of North Seeking or Rate Gyro survey instruments, including its running gears, along with sufficient spares and operator to be mobilized within 90 days from date of the call notice issued by OIL for surveying the well bore either during kick off or later on in any part of the well. This Gyro shall run on electric wire line unit to be provided by OIL.

10.0 **Geology & Reservoir Information :-**

Geological and reservoir information of the field where the horizontal wells shall be drilled is furnished below. Detailed information of the wells shall be provided to the Contractor during Phase # I of the contract.

**Makum and North-Hapjan Barail 4th+5th Sand**

- a) Formation: Barail fluvio-deltaic clastic sediments of Oligocene age (Tertiary)
- b) Lithology: The reservoir is located in the arenaceous section of the Barail Formation which consists predominantly of sandstones with minor laterally impersistent shale interbeds and is overlain by an argillaceous section (about 100m).
- c) Reservoir pressure #
  - i) Initial: 265.5 ksc at 2544.56 m SS (2636 m bd, Datum: 91.445 m asl).
  - ii) Current: 255 ksc at 2544.56 m SS (2636 m bd, Datum: 91.445 m asl)
- d) Bottom hole temperature = 72° C
- e) Pore Pressure: In the sedimentary column above the target reservoir is hydrostatic.
- f) Average depth to reservoir = 2546.1 m SS (2637.5 mbd, Datum: 91.44 m asl)
- g) Original oil-water contact = 2568.6 m SS (2660.0 m bd, Datum: 91.44 m asl)
- h) Original gas-oil contact = 2523.6 m SS (2615.0 m bd, Datum : 91.44 m asl)

- i) Net thickness of oil zone expected to be encountered: 25m (approx)
- j) Presence of gas cap encountered in the crestal part of the structure.(Not tested)
- k) Weighted average porosity = (Makum -25%, North Hapjan -20%).
- l) Horizontal section length = 400 m.
- m) Average ground level elevation =125 m asl.
- n) Marker Bed = Barail Top which is approximately 130 ± 20 m above the target reservoir.
- o) Stratigraphic column encountered in the area: As given below

**Horizon Age Lithology Thickness(m)**

Alluvium Pleistocene to Recent Medium to coarse grained unconsolidated sands with occasional bands of clay 1825

Girujan

Pliocene

Buff, red and green mottled clay with bands of fine-grained sandstone 150

Tipam Miocene Medium grained sandstone with bands of bluish-gray to bluish shale 550

Barail

Argillaceous Oligocene Mainly mudstone and occasional fine grained argillaceous sandstone with thin bands of carbonaceous shale and coal 120

Barail  
Arenaceous Mainly consists of sandstone interbedded with streaks of laterally impersistent shales 650

**BAREKURI FIELD**

The hydrocarbon prospects of the Barekuri field are confined to Paleocene/Lower Eocene and average depth of the reservoir is around 3740 m below MSL. So far, OIL has drilled nine wells in this structure of which 8 are oil producers and the current rate of production is approximately 1000 m3/day with very negligible water cut. The initial reservoir pressure is 428.5 kg/cm2 and the current reservoir pressure is around 428.0 kg/cm2.

**BAGHJAN FIELD**

The main multi-stacked hydrocarbon bearing horizons are confined to the Palaeocene / Lower Eocene sandstone reservoirs. So far, drilling has been completed in 12 wells in the Baghjan structure. The reservoir pressure was found to be around 422.6 Ksc which is 50 Ksc above hydrostatic. The depth to Basement in the Baghjan area is around 3910 m below MSL and average depth of the reservoir is around 3700 - 3800 m below MSL. The area has been covered by 3D seismic survey.

Surface position Horizontal Location Co-ordinates of Surface Location, Distance and bearing of the horizontal location (start) from surface position and Direction of the Horizontal section shall be provided to the successful bidder during Phase#1 of the contract.

Offset well data of Baghjan and Barekuri field is attached as ANNEXURE-L.

### **DEOHAL-LAHOI STRUCTURE:**

The Deohal –Laholi structures at the Barail level is a composite faulted anticlinal structure which is compartmentalized into three fault blocks viz. Lohali, Deohal and East Deohal by two north-south trending faults and is bounded by a common major EW to ENE-WSW trending fault towards the south.

The Deohal and the East Deohal blocks are the central and eastern fault blocks of the area with an areal extent of around 19 sq km at Barail Third Sand level. The Barail Third Sand is the primary reservoir within the Barail formation of the area and has been established as NAG reservoir. The average depth of the reservoir is around 2600m below MSL. A total of 7 wells have been drilled in this area but only 2 wells were completed as a gas producer in Barail Third Sand. Currently only one well is producing gas @ 0.1 MMSCMD. The initial reservoir pressure was 250.7 kg/cm<sup>2</sup> and the current reservoir pressure is around 240 kg/cm<sup>2</sup>. A horizontal gas well is planned to be drilled in the pay sand to produce gas at higher rates.

Lohali Block is the westernmost fault block of the area with an areal extent of around 6 sq km at Barail Third Sand level. Well Lohali-1 has been completed as a gas producer at Barail Third Sand level and it is producing gas @ 0.18 MMSCMD.

### **Projection Parameters:**

Reference spheroid for local projection = Everest 1830 Pak

Projection system: Lambert Tangential.

11.0 Contractor should take note of the following:

#### **11.1 RSS AND MOTOR COMPATIBLE BIT:**

Contractor shall submit a list of RSS and motor compatible bit of at least 3 reputed make for drilling specified formation. OIL may consider procurement of recommended bits directly from Bit manufacturing Company after deliberation with Bit manufacturing Company.

#### **11.2 PERSONNEL FOR DIFFERENT SERVICES :**

Contractor shall provide following category personnel for running the well operation on the round the clock basis.

- i) Directional Driller for SDMM/RSS.
- ii) MWD / LWD Engineer/Operator.
- iii) Base Manager in Duliajan

The personnel (Sl. No. i to iii) as described above will be deployed by Contractor. The Contractor should provide one Base Manager (Sl. No. iii) to be stationed at Duliajan (Base office).

#### **11.3 ADDITIONAL TOOL / EQUIPMENT / PERSONNEL WITH SERVICE :**

OIL, at its discretion may advise the Contractor to mobilize "additional" tool / equipment / personnel with service on selective basis to meet emergent

operational requirement under same rate, Terms & Conditions agreed during initial phase of contract.

**11.4 GENERAL CONDITIONS:**

Contractor should provide the following :

- i) Float for both 8 1/2" and 6" hole.
- ii) Drill Pipe Strainer for 5" OD x 19.5PPF x Grade-G
- i) Quantity & Units and tools as indicated in the scope of work.
- ii) MWD and LWD Tools initially mobilized by the Contractor and any replacement thereof, should be accompanied by Calibration sheets, approved by Contractors QA/QC engineers which will be certified by OIL designated team.

**11.5 SERVICE AND MAINTENANCE FACILITY:**

As OIL's operation is going to be in a remote location in Northeast part of India It is desirable that Contractor setup a complete and comprehensive repair and maintenance facility at their base. Contractor may install Breakout Unit for repairing of Motors, Jars etc. and include the tools and calibration/ verification facility for field level repairing of MWD, Gamma and Resistivity Tools.

**11.6 CONSUMABLES :**

All consumables provided to Oil India Limited (OIL) as sold out items (like liner hanger, ICD and accessories, G/L equipment with Packer etc.) should carry a warranty to OIL. Any consumable supplied but not installed by OIL during the tenure of the contract will be installed by the Contractor within a period of 1(one) year from the end of the contract on chargeable basis.

**11.7 FIELD VERIFICATION & CALIBRATION TOOL & SERVICES :**

- i) Contractor is required to produce documentary evidence of "Calibration of Resistivity Tool" prior to shipping the same for mobilization to Duliajan at the beginning of the contract.
- ii) The certificate / documentary evidence of "Calibration Check" of LWD (resistivity) tool shall be required to be certified by Company (OIL) personnel before it is deployed in the first well.
- iii) If any other LWD (resistivity) tool is mobilized by the contractor during the contract period, documentary evidence of "Calibration Check" of LWD (resistivity) tool prior to shipping to Duliajan shall be produced by the contractor and certified by Company (OIL) personnel before the same is deployed in any well.
- iv) Field calibration of the MWD and LWD tools shall be provided by the bidder.

**END OF SECTION – II**

**&&&&&**



## **SECTION - III**

### **SPECIAL CONDITIONS OF CONTRACT**

#### **1.0 DEFINITIONS :**

Following terms and expression shall have the meaning hereby assigned to them unless the context requires otherwise. The expressions not defined here shall have the meaning ascribed to them in Section I: General Conditions of Contract.

- (a) "Services" from Contractor means (i) all tools, equipment, consumables from Contractor required for OIL's operation and (ii) all tools, equipment, spares required for servicing / maintenance of Contractor's Tool & Equipment in this bid document.
- [b] "Company item" means the equipment, materials and services which are to be provided by Company at the expense of Company as mentioned in the contract.
- (c) "Operating Area" means those areas in onshore India in which Company or its affiliated Company may from time to time be entitled to conduct drilling operations.
- (d) "Operation Base" means "Duliajan"
- (e) "Site" means the land and other places, on/under/in or through which the works are to be executed by the Contractor and any other land and places provided by the Company for working space or reference and technical specifications.
- (f) "Contractor's item" means the equipment, materials and services which are to be provided by Contractor or Company (at the expenses of the Contractor), which are listed under Section -II, "Terms of reference and Technical specifications".

#### **2.0 ASSOCIATION OF COMPANY'S PERSONNEL:**

- 2.1 Company may depute one or more than one representative (s) / engineer (s) to act on its behalf for overall co-ordination and operational management at location. Company's representative will be vested with the authority to order any changes in the scope of work to the extent so authorized and notified by the Company in writing. He shall liaise with the Contractor and monitor progress to ensure timely completion of the jobs. He shall also have the authority to oversee the execution of jobs by the Contractor and to ensure compliance of provisions of the contract.
- 2.2 Company's representatives shall have free access to all the equipment of the Contractor during operations as well as idle time for the purpose of observing / inspecting the operations performed by the Contractor in order to judge whether, in Company's opinion, the Contractor is complying with the provisions of the contract.

3.0 **PROVISION OF PERSONNEL AND FACILITIES**

3.1 The Contractor will provide competent, qualified and adequately experienced personnel for carrying out the requisite operations correctly and efficiently. Personnel provided by the Contractor must observe all safety and statutory norms applicable to the Company. Their performance must be to the satisfaction of the Company and the Contractor must be willing and ready to replace, at their own expenses, any of their personnel who are not found suitable by the Company.

3.2 The detailed bio-data of the service engineer/specialist and other operators and the number of additional personnel planned to be deployed must be submitted to Company before engaging them for Company's approval.

Note: Any replacement with equivalent qualification/experience needs OIL's prior approval.

3.3 All the personnel deployed should be fluent in English language.

3.4 The Contractor shall be responsible for and shall provide for all requirements of his personnel, and of their Sub-Contractor(s), if any. These provisions will include but not be limited to their insurance, housing, medical services, messing, transportation (both air and land transportation), vacation, salaries and all amenities, termination payments, all immigration requirements and taxes, if any, payable in India or outside at no extra charges to the Company. Boarding and local transportation of Contractor's personnel during the entire duration of the contract shall be arranged by Contractor at their cost.

3.5 The Contractor's representative shall have the entire power requisite for performance of the work. He shall liaise with the Company's representative for the proper co-ordination and timely completion of the job and on any other matters pertaining to the job.

4.0 **MOBILIZATION AND DEMOBILIZATION:**

Contractor's tools/equipment (one or more) shall be required to be mobilized at / demobilized from Duliajan under OIL's advice. Contractor shall mobilize the tools/equipment (one or more) within 20 (twenty) days from the date of issuance of the notice by OIL. Contractor shall demobilize the tools/equipment (one or more) within 24 hour notice from OIL.

5.0 **CONTRACTOR'S OBLIGATIONS :**

Contractor shall perform the work described under scope of work and prepare the 24 hour comprehensive report on Directional Survey data (BHA Sag corrected), MWD Report on Gamma + Resistivity + ROP, Drilling Operation summary + Material Usage, BHA and their Dimensional Data. Contractor is required to submit this daily report to Company Representative based at Duliajan.

6.0 **COMPANY'S OBLIGATIONS:**

- 6.1 **Entry Permits** : Company shall assist Contractor for arranging necessary entry permits, if required, for personnel belonging to Contractor and their subcontractors engaged with the consent of Company, provided Contractor gives full particulars of such personnel in advance. However the primary obligation in this regard shall be on Contractor and Company shall provide necessary documents only.
- 6.2 **Security**: Company shall organize all possible help from local government/ administration to Contractor personnel and equipment in case of natural disasters, civil disturbances and epidemics. Camp security personnel (chowkidars) etc. as well as all security (including Contractor's equipment and personnel) will, however, be the responsibility of Contractor.
- 6.3 **Crane service/Transport vehicles**: OIL will provide crane and transportation (for Inter-location movement and movement between OIL administered area) of the Contractor's equipment and also for transfer/handling of Contractor's material, equipment at well site "free of charge". The loading, unloading and transportation shall be done at Contractor's supervision and risk. OIL shall not be responsible for any damage during handling & transit. However, in case of emergency contractor shall have to arrange for inter location movement of tools & equipment at their own cost.
- 6.4 **Well-site Accommodation**: Company shall provide only 1(one) 4(four) bedded bunk house for Contractor's personnel at well site without cooking facilities. Well site canteen facilities are available at well site which will be extended to contractor personnel on chargeable basis.
- 6.5 **Office facility at Duliajan** : The Company may provide a basic office premises inside Drilling Office located in New Industrial Area at Duliajan(Assam) "free of charge" on the basis of availability.
- 6.6 **Well Site Communication facility**: Company shall provide Internet facility and IP (Internet Protocol) telephone "free of charge" at well site.
- 6.7 **Medical Facilities**: Company will extend the medical facilities to the extent available at its hospital at Duliajan on chargeable basis.
- 6.8 **Storage Space for TOOL / Equipment / Consumables** : The Company will provide open or covered as well as secured storage - ware house space for Contractor's tool / equipment and consumable at Company's New Industrial Area at Duliajan(Assam) "free of charge".
- 6.9 **WORKSHOP FACILITY** : Company will extend the in-house workshop facility for Contractor's Tools & Equipment without hampering Company's own work schedule. The workshop facility will be chargeable depending on quantum of job involving man/material/time. The workshop facility may not be charged to Contractor in case of minor nature of repairing job requiring very nominal time.

6.10 **INSTALLATION OF POWER TORQUE UNIT** : Contractor may install Power Torque Unit at their own cost for repair of their tools. Company shall provide space for the unit at NIA free of charge but electricity shall be provided on chargeable basis as per prevailing rate of the company. Company's own Power Torque Unit service shall be extended to Contractor if available without any obligation whatsoever on chargeable basis as per prevailing charges of the company.

7.0 **PERFORMANCE OF WORK**: The Contractor shall submit daily reports to Company detailing progress of different operations as per the scope of the work at 7:00 AM on every day. The Company, at its option may change the periodicity of such reports. In addition, Contractor shall submit the complete job report (with all pertinent details to serve permanent record) within 15 (fifteen) days from the date of completion of each individual job. The manner and the speed of execution and maintenance of the operations are to be conducted in a manner to the satisfaction of the Company's representative. Should the rate of progress of the operations or any part of them be at any time too slow in the opinion of the Company's representative, (to ensure completion of the operations within schedule) Company's representative may so notify the Contractor in writing. The Contractor shall reply to the written notice giving details of the measures, which he proposes to take to expedite the operations. If no satisfactory reply to Company's notice is received in seven days, Company shall be free to take necessary actions as deemed fit.

8.0 **LABOUR**

8.1 The recruitment of the labour, if required, shall be met from the areas of operation and wages will be according to the rates prevalent at the time, which can be obtained from the District Authorities of the area. The facilities to be given to the labourers should conform to the provisions of labour laws as per Contract Labour (Regulation and Abolition) Act, 1970.

9.0 **SAFETY** :

9.1 The Contractor shall take all measures necessary to protect the personnel, work and facilities and shall observe safety rules and regulations as per Oil Mines Regulation. No smoking or open flame shall be permitted on the operation site and nearby, except in areas marked by the Contractor and approved in writing by the Company.

9.2 The Contractor shall report, as soon as possible, any evidence, which may indicate or is likely to lead to an abnormal or dangerous situation and then immediately take the first emergency control steps conforming to good operation practice and safety regulations.

9.3 The Contractor shall have a complete Safety Manual that will be available in the work site at all points of time and readily accessible.

10.0 **PROTECTION OF PROPERTY AND EXISTING FACILITIES**

10.1 The Contractor shall perform each work in such a manner as will prevent damage to the Company's property and conform to and be consistent with,

and not to interfere in any way with continuous and safe operational practices for the well

#### **11.0 CUSTOMS DUTY**

- 11.1 Company shall use the Drilling units with the Services under the Contract in the PEL/ML areas renewed / issued to Company after 1.4.1999 and therefore, in terms of Notification No. 21 dated 01.03.2002, goods specified in List-12 imported in connection with petroleum operations under this Contract would attract zero customs duty. Company will issue Recommendatory Letter to Directorate General of Hydrocarbons(DGH), Ministry of Petroleum & Natural Gas, as per Government guidelines for issuance of Essentiality Certificate (EC) from Directorate General of Hydrocarbons, to enable the Contractor to import goods at concessional (Nil) customs duty so as to provide the services under this Contract provided these goods are specified in the List-12 of the aforesaid Notification.
- 11.2 Bidder should provide the list of items to be imported by them under the Contract in the format specified in Proforma-A along with their bid for issuance of Recommendatory Letter to DGH. Contractor shall made written request to Company immediately after shipment of the goods indicated by them in Proforma-A, along with the Invoices and all shipping documents (with clear 15 working days notice) requesting Company for issuance of the Recommendatory Letter. OIL shall issue the Recommendatory Letter provided all the documents submitted by the Contractor are found in order as per contract. It shall be however, Contractor's responsibility to obtain EC from DGH and clear the goods through customs. OIL shall not be liable in whatsoever manner for the rejection of their claims for zero customs duty by any of the authorities including DGH. Contractor shall indemnify OIL from all liabilities of Customs Duty.
- 11.3 All imports and import clearances under the contract shall be done by the contractor and OIL shall not provide any assistance in this regard.
- 11.4 However, in the event customs duty becomes leviable during the course of contract arising out of a change in the policy of the Government, Company shall be liable for payment of the customs duties leviable in India on Contractor's items as provided in Proforma-A or the actuals whichever is less, provided Contractor furnishes all necessary documents indicating the estimated customs duty at least 10 days in advance. Such payment of Customs Duty shall be arranged by Company and made available to the representatives of Contractor at Kolkata within 3 working days after Contractor submits the undisputed and clear necessary documents / duty assessment papers at Company's office at Kolkata. Contractor would be responsible for passing such payment to customs authorities at the port of entry. Company's obligation for Customs Duty payment shall be limited / restricted to the tariff rates as assessed by the Customs on the day of clearance, or as on the last day of the stipulated mobilisation period. In case of clearance thereafter, on the CIF value of items in Proforma-A will be frozen and any increase in Customs Duty on account of increase in value on these will be to the Contractor's account. Furthermore, in case the above CIF value is not acceptable to assessing

Customs Officer and as a result if any excess Customs Duty becomes payable, it shall be to Contractor's account. Before filing Bill of lading, Bill of entry, the Contractor must consult the Company to avoid payment of excess Customs Duty.

11.4. Contractor shall, however, arrange clearance of such items from Customs and port authorities in India and shall pay all requisite demurrages, if any, clearance fees/charges, port fees, clearing and forwarding agent fees/ charges, inland transport charges etc. Company shall provide all assistance by issuance of necessary letter of authority or other relevant documents and necessary help.

11.5 Contractor must ensure that the spares and consumables imported by them for providing the services under Contract are properly used in executing their job under the Contract in the PEL/ML areas of Company for which EC has been obtained. Contractor shall furnish to Company a certificate as and when the spares and consumables are used/consumed certifying that the spares and the consumables imported by them have been consumed in those ML and PEL areas under the contract for which ECs were obtained by them. In order to avoid any misuse of the spares and consumables imported by the Contractor for providing the services under the Contract, Contractor shall furnish an Undertaking similar to that being furnished by Company to Customs of suitable amount before issue of the Recommendatory Letter.

12.0 **DEMOBILISATION & RE-EXPORT :**

12.1 The Contractor shall arrange for and execute demobilization of the entire Tools/Equipment/Spare/ Accessories/Manpower etc. upon receipt of notice for demobilization from Company. Demobilisation shall mean completion / termination of the contract and shall include dismantling of its accessories/equipment, including the manpower and re-export of its accessories/equipment, unutilized spares and consumables at the cost of the contractor. Demobilization shall be completed by Contractor within 60 days of issue of demobilization notice by Company. Immediately after re-exporting the Rig package, its accessories, equipment and the unused spares and consumables, Contractor shall submit the detail re-export documents to Company as documentary proof of re-exporting its accessories, equipment and the unused spares and consumables. In case of failure to re-export any of the items as above within the allotted time period of 60 days except under circumstances relating to Force Majeure, Company reserves the right to withhold the estimated amount equivalent to the Customs Duty and/or penalty leviable by customs on such default in re-export from Contractor's final settlement of bills and Performance Security.

12.2.1 In the event all / part of the equipment etc. are transferred by Contractor within the country to an area where nil Customs Duty is not applicable and/or sold to a third party after obtaining permission from Company and other appropriate government clearances in India, then Contractor shall be fully liable for payment of the Customs Duty.

12.3 Contractor must furnish an undertaking that “the equipment imported and also spares & accessories which remained unutilized after the expiry of the contract, would be re-exported at their own cost after completion of contractual obligation after observing all the formalities/rules as per Customs Act or any other relevant Act of Govt. of India applicable on the subject”. In case of non-observance of formalities of any provisions of the Customs Act or any other Act of Govt. of India, the Contractor shall be held responsible for all the liabilities including the payment of Customs Duty and penalties to the Govt. on each issue. Non-compliance of these provisions will be treated as breach of contract and their Performance Bank Guarantee will be forfeited.

12.4 In the event all / part of the equipment etc. are transferred by Contractor after expiry/termination of the contract within the country to another operator for providing services, and/or sold to a third party, Contractor shall obtain all necessary Govt. of India clearances including the Customs formalities for transferring to another operator and/or sale of the Rig package, its accessories, equipment and the unused spares and consumables to a third party. Company will not be responsible for any non-compliance of these formalities by Contractor. Payment of Customs Duty and penalties (if any) imposed by Govt. of India or Customs authorities for transferring the items in part or in full to an area where Nil Customs Duty is not applicable or sale of the items shall be borne by the Contractor and Contractor indemnifies Company from all such liabilities.

**13.0 LOSS OR DAMAGE OF SUB-SURFACE EQUIPMENT:**

Notwithstanding any provision under this contract to the contrary, Company shall assume liability except in the event of gross negligence on the part of the contractor for loss or damage to the contractor's sub-surface equipment/ tool in hole below rotary table. Company shall at its option either reimburse the contractor for the value of lost equipment/ tool as declared in the import invoices at the time of mobilization or subsequent replacement/ addition of the same equipment/ tool or CIF value whichever is lower for any such loss or damage, less depreciation @ 3% per month from the date of start of the contract up to a maximum depreciation equivalent to 50% of CIF value as indicated by the contractor or at its option to replace similar equipment/ tools and any transportation expenses incurred in connection herewith. All such cost shall be payable by Company only after contractor produces documentary evidence that the particular equipment/ tool is question is not covered by contractor's insurance. For such claims contractor shall notify Company within one month. The inspection of recovered from downhole need to be made by Company Representative before submission of the invoice by contractor.

14.0 **DATA INTERPRETATION:** Since all data interpretations are based on inference from electrical or other measurements, Contractor cannot and does not guarantee the accuracy or correctness of any interpretation and Company agrees that Contractor shall not be liable or responsible except for the case of gross negligence on Contractor or his sub-contractors part, for any loss, cost, damage or expense incurred or sustained by Company resulting directly or indirectly from any interpretation made by Contractor

or any of its agents, servants, officers or employees. Should any such interpretation or recommendation be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any procedure involving any risk to the safety of any drilling ventures, drilling rig, or its crew or any other individual, Company agrees that under no circumstances shall Contractor be liable for any consequential loss or damages on this account except in case of willful negligence.

**15.0 DATA HANDLING AND LIABILITY**

Company warrants and represents that it is the owner or licensee of any data that will be provided to Contractor and that it has the right to disclose data to Contractor. Company expressly agrees that Contractor shall only be provided with copies of data and agrees that Company shall retain all originals and/or backup copies of any data provided to Contractor. Contractor shall have no liability whatsoever for any loss or damage to the data.

**16.0 FISHING:**

In the event of any of the Contractor's Equipments is lost / stuck in the well or at Site, then the Company shall, at its expenses, attempt to recover or retrieve the same, irrespective of cause. As and when the Company decides to fish for any of the Contractor's Equipments, then the Company shall have full responsibility and liability for such Operations but the Contractor shall render assistance in an advisory capacity at all times in connection with such fishing operations. It is expressly understood between the Parties that the Contractor's personnel are not authorized or entitled to do anything other than to advise the Company in connection with such fishing operations and about any fishing tools which may be furnished by the Contractor at the Company's request. Furnishing of such fishing tools is solely as accommodation to the Company and the Contractor shall not be responsible or liable for any loss or damage which may result with the use of such tools or by reason of any advice or assistance provided to the Company by the Contractor or its personnel regardless of the cause of such loss.

**17.0 RADIOACTIVE MATERIAL:**

In accepting any order to perform or attempt to perform any service involving the use of radioactive material, Company agrees that Contractor shall not be liable or responsible for injury to or death of persons or damage to property (including, but not limited to, injury to the well), or any damages whatsoever irrespective of the cause, growing out of or in any way connected with Contractor's use of radioactive materials. Company shall absolve and hold Contractor harmless against all losses, cost, damages and expenses incurred or sustained by Company or any third party irrespective of the cause excluding willful and gross negligence by Contractor or its agents, servants, officers or employees, resulting from any such use of radioactive material.

In case of radio-active source lost in hole during logging operation, action will be initiated as per AERB guidelines.



**18.0 POLLUTION & CONTAMINATION:**

Notwithstanding anything to the contrary contained herein, it is understood and agreed by and between the Contractor and Company that the responsibility for pollution or contamination shall be as follows:

- i) The Contractor shall assume all responsibility for cleaning up and controlling pollution or contamination which originates from Contractor's equipments and facilities above the surface.
- ii) Company shall assume all responsibility for (including control and removal of the pollutant involved) and shall protect, defend and save the Contractor harmless from and against all claims, demands and causes of action of every kind and character arising from all pollution, contamination, which may occur from any cause, save and except pollution or contamination for which the Contractor assumes liability in terms of Sub-clause (a) above.
- iii) In the event, a third party commits an act or omission which results in pollution or contamination for which either the Contractor or Company, for whom such party is performing work, is held to be legally liable the responsibility therefore shall be considered as between the Contractor and Company, to be the same as if the party for whom the work was performed and all of the obligations respecting defiance indemnity, holding harmless and limitations of responsibility and liability, shall be specifically applied.

**19.0 LIABILITY FOR THE WELL OR RESERVOIR:**

Notwithstanding anything else contained herein to the contrary, the Contractor shall not be liable or responsible for or in respect of.

- i) any sub-surface damage (including but not limited to damages or loss of a well or reservoir or formation, the loss of any oil or gas there from), or any surface loss or damage or injury or death arising out of a sub-surface damage; and/or
- ii) blowout, fire, explosion or any other uncontrolled well condition; and/or
- iii) damage to, or loss of oil or gas from any pipelines, vessels or storage or production facilities; and/or
- iv) any loss or damage or injury or death whatsoever, direct or consequential, including liability arising from pollution originating below the surface and any clean up costs, whether caused by their personnel or Equipment or otherwise arising from or in any way connected with such sub-surface Operations or in performing or attempting to perform any such Operations;
- v) third party liabilities arising out of the above irrespective of the cause and the Company agrees that it shall absolve the Contractor and protect, defend, indemnify and hold the Contractor and its sub-contractors, its agents and its parents, subsidiaries and affiliates, its

other contractors and/or its and their directors, officers, employees, consultants and invitees harmless from and against all claims, suits, demands and causes of actions, liabilities, expenses, costs and judgments of every kind and character (including without limitation for the loss or damage of any property, or the injury or death of any person), without limit, in favour of any person, party or entity, resulting from any of the above, including costs incurred by Company in this respect.

**20.0 SAFETY:**

i) It will be solely the Contractor's responsibility to fulfil all the legal formalities with respect to the Health, Safety and Environmental aspects of the entire job (namely; the person employed by him, the equipment, the environment, etc.) under the jurisdiction of the district of that state where it is operating. Ensure that all sub-contractors hired by him comply with the same requirement as the contractor himself and shall be liable for ensuring compliance all HSE laws by the sub or sub-sub contractors.

ii) Every person deployed by the contractor in a mine must wear safety gadgets to be provided by the contractor. The Contractor shall provide proper Personnel Protective Equipment as per the hazard identified and risk assessed for the job and conforming to statutory requirement and company PPE schedule. Safety appliances like protective footwear, Safety Helmet and Full Body harness has to be DGMS approved. Necessary supportive document shall have to be submitted as proof. If the Contractor fails to provide the safety items as mentioned above to the working personnel, the Contractor may apply to the Company (OIL) for providing the same. OIL will provide the safety items, if available. But in turn, OIL will recover the actual cost of the items by deducting from Contractor's Bill. However, it will be the Contractor's sole responsibility to ensure that the persons engaged by him in the mines use the proper PPE while at work.

All the safety gears mentioned above are to be provided to the working personnel before commencement of the work.

iii) The Contractor shall prepare written Safe Operating Procedure (SOP) for the work to be carried out, including an assessment of risk, wherever possible and safe methods to deal with it/them. The SOP should clearly state the risk arising to men, machineries & material from the mining operation / operations to be done by the contractor and how it is to be managed.

iv) The contractor shall provide a copy of the SOP to the person designated by the mine owner who shall be supervising the contractor's work.

v) Keep an up to date SOP and provide a copy of changes to a person designated by the Mine Owner/Agent/Manager.

vi) Contractor has to ensure that all work is carried out in accordance with the Statute and SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe

manner. For work of a specified scope/nature, he should develop and provide to the mine owner a site specific code of practice in line.

- vii) The contractor shall submit to DGMS returns indicating – Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment of work persons, Number of work persons deployed, how many work persons hold VT Certificate, how many officers/work persons undergone IME and type of medical coverage given to the officers/work persons.
- viii) The return shall be submitted quarterly (by 10th of April, July, October & January) for contracts of more than one year.
- ix) It will be entirely the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by company's Installation Manager / Safety Officer / Engineer / Official / Supervisor/Junior Engineer for safe operation.
- ix) Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the contractor only.
- xi) Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the contractor.
- xii) The contractor shall have to report all incidents including near miss to Installation Manager / departmental representative of the concerned department of OIL.
- xiii) The contractor has to keep a register of the persons employed by him/her. The contractor's supervisor shall take and maintain attendance of his men every day for the work, punctually.
- xiv) If the company arranges any safety class / training for the working personnel at site (company employee, contractor worker, etc) the contractor will not have any objection to any such training.
- xv) The health check up of contractor's personnel is to be done by the contractor in authorized Health Centers as per OIL's requirement & proof of such test(s) is to be submitted to OIL. The frequency of periodic medical examinations should be every five years for the employees below 45 years of age and every three years for employees of 45 years of age and above.
- xvi) To arrange daily tool box meeting and regular site safety meetings and maintain records.
- xvii) Records of daily attendance, accident report etc. are to be maintained in Form B, E, J (as per Mines Rules 1955) by the contractor.

- xviii) A contractor employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omissions at work.
- xix) A contractor employee must, while at work, cooperate with his or her employer or other persons so far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.
- xx) Contractor's arrangements for health and safety management shall be consistent with those for the mine owner.
- xxi) In case Contractor is found non-compliant of HSE laws as required company will have the right for directing the contractor to take action to comply with the requirements, and for further non-compliance, the contractor will be penalized prevailing relevant Acts/Rules/Regulations.
- xxii) When there is a significant risk to health ,environment or safety of a person or place arising because of a non-compliance of HSE measures company will have the right to direct the contractor to cease work until the non-compliance is corrected.
- xxiii) The contractor should frame a mutually agreed bridging document between OIL& the contractor with roles and responsibilities clearly defined.
- xxiv) For any HSE matters not specified in the contract document, the contractor will abide the relevant and prevailing Acts/rules/regulations/ pertaining to Health, Safety and Environment.

#### 21.0 **INTELLECTUAL PROPERTY:**

While performing the Work for the Company, Contractor may utilize expertise, know-how and other intellectual capital (including intellectual property) and develop additional expertise, know-how and other intellectual capital (including intellectual property) which are Contractor's exclusive property and which Contractor may freely utilize in providing services for its other customers. Except where expressly and specifically indicated in writing, and in exchange for appropriate agreed payment, Contractor does not develop any intellectual property for ownership by Company, Contractor retains sole ownership of any such intellectual capital (including intellectual property) created by Contractor during the course of providing the Services.

#### 22.0 **IP INFRINGEMENT:**

Contractor shall indemnify and hold the Company harmless from any third party claims arising on account of intellectual property infringement with respect to its services or products except where such infringement is caused due to:

- (a) Specific modification or design of Contractor equipments or Services to meet Company's specifications,

- (b) Combination of Contractor's equipments or Services in combination of other equipments and/ or services not recommended by Contractor,
- (c) Out of unauthorized additions or modifications of Contractor's equipments or services by Company, or
- (d) Company's use of Contractor's equipments or Services that does not correspond to Contractor's published standards or specifications; in which case, the Company shall indemnify and hold the Contractor harmless.

**END OF SECTION – III**

**&&&&**

## **SECTION - IV**

### **SCHEDULE OF RATES**

- 1.0 The bidders must quote the rates in their price bids as per the attached Price-Bid Format: The payment shall be made for the actual work done. All Day Rate Charges shall be pro-rated to nearest hour.

**(A) MOBILIZATION CHARGES OF TOOLS / EQUIPMENT :**

- i) Mobilization charges as lump sum amount against individual tool/equipment including manpower will be payable when all equipment/tools (free of defects/encumbrances) and approved operating personnel are positioned at Company's designated site and duly certified by the Company representative which shall be no later than 7 working days from the date of arrival at the mobilization point as decided by OIL regarding readiness of the equipment & personnel to undertake / commence the work assigned under the contract.
- ii) Mobilization charges should cover local and foreign costs to be incurred by the Contractors to mobilize the equipment to the mobilization point as decided by OIL and should include all duties including all local and foreign taxes, port fees/charges including demurrage (if any) and inland transport to the mobilization point as decided by OIL etc. (on the items declared in Proforma- A), except customs duty, which will be to OIL's account, if applicable.
- iii) **Mobilisation charges for ICD hanger packer & wash pipe setting tool and 7" Liner Hanger Setting Tool(Call out Basis):** Since the Liner Hanger Setting Tool is not required in the very beginning of the contract, the same shall be mobilized as per OIL's requirement (Mobilization letter for liner Hanger Setting Tool). The mobilization charges for this tool shall be payable after completion of mobilization of same.
- iv) The Company will provide all necessary documents as required for custom clearance, only on receipt of request from the Contractor and all such requests must be made by the Contractor well in advance, so that the Company can make necessary arrangements for providing the documents in time without causing any delay for the customs/port clearance.
- vi) Mobilization charges should not exceed 5% of the evaluated contract value of the main items (excluding optional items)
- vi) Mobilization charge will not be released on the basis of arrival of individual tool/equipment/consumables/although there will be individual mobilization charge (lump sum) for different tool/equipment/consumables/ (described in the above schedule of rates.

Mobilization will be considered to be completed only after following conditions from (a) to (f) (without any exception) are met with.

- a) All tools & equipment (surface & sub surface) as per contractual obligation (technical Spec. & quantity wise) arrive at OIL's designated site.
- b) Tool/Equipment/Consumables/arrive at OIL's designated site as per "General Terms and Conditions of Contract" in Section-I, Clause No. 2.2(ii) (a, b, c, d) for commencing directional drilling activity.
- c) All relevant documents (technical specification, drawing, vintage, Make, Model etc.) of each & every tool & equipment are made available (as per contractual obligation) by Contractor for scrutiny by OIL.
- d) All relevant documents are found to be technically acceptable by OIL on scrutiny.
- e) Company issues acceptance / clearance certificate for all tools & equipment in writing. This "acceptance / clearance" certificate will be provisional in nature till performances of tool / equipment are established in operation.
- f) Mobilization charges will be payable for individual tool / equipment (one no. only). However each down hole tool / equipment should have sufficient number of back- up tool / equipment/spares/consumables for ensuring un-interrupted directional drilling activity. Similarly Centrifuge should have adequate spares & consumables for trouble free operation.
- vii) There will be no mobilization charge / operating charge / stand by charge / Rental charge payable on "Power Torque Unit". The service from this particular equipment will be utilized by the Contractor for maintenance of their down hole tool (RSS/SDMM/MWD/LWD/Jar/Resistivity).

**(C) DE-MOBILIZATION CHARGES OF TOOLS/ EQUIPMENT:**

- i) The Contractor shall arrange for and execute demobilization of their Tools/Equipment / Spare/Accessories (one or more) etc. upon receipt of notice from the Company. For de-Mobilization Contractor shall bear all such costs/charges, if any towards the same from drilling location to Contractor's base.
- ii) All rates on Tools/Equipment/Spare/Accessories etc. shall cease to exist with effect from the day the Contractor is issued de-mobilization notice by Company. No charges whatsoever will be payable with effect from the date of notice to demobilization.

- iii) Company shall give notice to Contractor to commence demobilization. This shall be applicable with immediate effect. No other charges shall be payable after issuance of de-mobilization letter. However the contractor will ensure that demobilization is completed and Company's work-site is cleared-off Contractor's property within 03 (three) weeks of notice from the Company, failing which, de-mobilization charge will be heldup.
- x) All charges connected with demobilization including all fees, duties and taxes in relation thereto, insurance and freight within India or on export/re-export outside India will be to Contractor's account.
- xi) Upon completion of duration of the contract, the contractor shall submit their last invoice for payment along with any document(s) as required by the Indian laws and asked for by the Company to enable release of payment
- xii) In case of need for temporary suspension of Company's activity due to operational reasons, the Company retains the right to De-Mobilize Contractor's Equipment & Tools and Re-Mobilize the consignment when well operations recommence. Minimum 20 Days period for Re-Mobilization shall be provided from date of De-Mobilization Notice.
- xiii) **No other Charges** on any account will be payable from the time the De-Mobilization notice is issued till Re-Mobilization is completed under Company's advice.
- xiv) The **De-Mobilization Charges** shouldnot exceed 4% of the total estimated contract value.

**(D) OPERATIONAL CHARGES OF (TOOLS & EQUIPMENT INCLUDING MANPOWER) :**

Under the contract, Contractor shall be entitled to a day rate as detailed below. These rates are inclusive of spares and consumables etc. if required (including spares for running repairs and maintenance of RSS-SDMM-MWD-LWD and JARS etc.) for the successful completion of the work.

- i) Operational Day Rate Charges shall be payable for all tools/equipment including manpower, the tools are 200m below the rotary table in the well including surface testing as defined below, and will be pro-rated to the nearest hour.

Surface Testing is defined as function testing of all tools/equipment of BHA to about 200 meter below rotary table.

For Pulling out operation, operating charges for all tools/equipment including manpower will be applicable, when the tools are pull out upto 200m below the rotary table.

DURING APPLICABLE OPERATING PERIOD MENTIONED ABOVE, ONLY OPERATING CHARGES SHALL BE PAYABLE. OTHERWISE



RENTAL CHARGES SHALL BE APPLICABLE FOR NON-OPERATING PERIOD. BIDDER SHOULD TAKE THIS INTO CONSIDERATION AND QUOTE THE OPERATING/RENTAL RATE ACCORDINGLY.

- ii) Operational Day Rate Charges shall also be paid during stuck up / fishing operation for the first 12 hours (per occurrence) beyond which only Rental Charges shall be payable. Rental Charges shall cease to be paid from the time OIL decides to call off fishing operations to recover Contractor's tool/equipment from hole and notifies Contractor accordingly.
- iii) Operational Day Rate Charges shall be payable with Tool in hole for first 12 hours, per occurrence, in case drilling is stopped due to well activity and mud loss conditions and any form of strike, rig repair, electrical and mechanical repair. Rental Charges shall only be payable beyond 12 hours, till normal operation is resumed.
- iv) In the event the Contractor's operating crew is not available for operation at any time during the period of contract no payment shall be made for such period.
- v) For reasons attributable to the Company, the Contractor shall not be penalized.
- vi) Operating Day Rate Charges shall not be payable for any tool/equipment of BHA if it fails to function below R/Table after "Surface Testing".
- vii) Zero Rate will be applicable for entire Bottom Hole Assembly, in case of discontinuation / suspension of normal operation ( drilling or round trip ) leading to pulling out of drill string due to malfunctioning of any one component ( i.e. LWD/MWD or RSS/SDMM or Gamma or Resistivity or Jar) of BHA. Operating rate for entire Bottom Hole Assembly will cease to be paid under this circumstance.
- viii) Under above circumstances, Zero rate will continue for entire Bottom Hole Assembly for the period starting with pulling out from particular depth through running in till normal (identical) operation is resumed at the same depth. However, any shut down period (such as crew shortage, machinery failure, rig repairing, local bandh etc.) owing to OIL or other reasons (not attributable to Contractor's fault) during the zero rate period will be appropriately deducted from zero rate period.
- ix) Selective Zero rate will be applicable only for those malfunctioning components of BHA, when normal operation (drilling or round-trip) is continued with other functional components of BHA. The Selective Zero rate for nonfunctional tool will continue from the time of fault detection (down hole) till the drill string is pulled out of hole after completion of normal operation. The functional components of BHA will continue to be paid operating rate under such circumstances.

- x) The operational day rate charges will be applicable as per "Special Terms and Conditions of Contract", Section - III, Clause No.7.0.

(F) **RENTAL DAYRATE CHARGES OF TOOLS / EQUIPMENT INCLUDING MANPOWER:**

- i) A) RENTAL CHARGES FOR TOOLS & EQUIPMENT INCLUDING MANPOWER WILL BE APPLICABLE FOR NON-OPERATING PERIOD OF TOOLS & EQUIPMENT.
- B) ONCE THE OPERATING DAY RATE IS APPLICABLE NO RENTAL CHARGES WILL BE PAYABLE FOR TOOLS/EQUIPMENT AND MANPOWER.
- ii) During Rental Day Rate period the equipment has to be in fully operating condition, save repair and preventive maintenance with prior permission of OIL.
- iii) Rental Day Rate Charges shall not be payable once the demobilization notice is issued by OIL for any tool/equipment.
- iv) Rental Day Rate Charges shall be applicable for any tool/equipment of BHA including manpower during the period it lies on surface and during surface testing of same to about 200 meter below rotary table.
- v) The surface testing of BHA will be considered to have started with effect from the time, the bit is out of hole during pulling out in order to run in BHA for next down hole operation. The "Rental day rate Charge" for BHA comprising of SDMM/RSS/Jar/MWD/LWD/Resistivity/NMDC etc. etc. during "surface testing" will be limited to 5 hours (maximum). No "Rental Day Rate Charge" is payable for entire BHA during "surface testing" period exceeding 5 hours till BHA is run into hole below 200 meters, when "Operating Charge" is applicable. While pulling out, operating rate shall be considered upto 200m below from rotary table. i.e. no operating charges shall be payable above 200m in the hole.
- The "surface testing" period will exclusively deal with activity performed by Contractor. The time consumed by OIL's activity (rig maintenance, crew related issue, any surface or sub surface activity etc.) during "surface testing" period will be excluded in calculating "surface testing" period.
- vi) If the Contractor withdraws the whole or part of the equipment or any manpower resulting in breakdown of operation, the Rental Day Rate Charges will not be paid.
- vii) Rental Day Rate Charges for complete consignment of Tools / Equipment will continue to be payable during "Dismantling of Contractor's facility in one location, Inter-Location movement, Re-

Installation & Re-Commissioning of Contractor's facility in next location".

- viii) Rental Day Rate Charges include supply of spares & consumables, replacement/maintenance cost and any other operational requirement if any during the contractual period. The Contractor must maintain minimum stock of any such regularly required items at the drilling site under their possession to ensure uninterrupted service.
- ix) All other necessary equipment, tools and accessories etc. will be provided by the Contractor for due performance of the intended services without any additional rental charges to Company.
- x) Rental Day Rate Charges will be payable for full day or part thereof on pro-rata basis up to the nearest hour.
- xi) If, Contractor's tool /equipment fails to perform, for any reason, attributable to the Contractor in the duration of operation, then no Rental Day Charges for the down hole tools shall become payable until the equipment/tool is put back in to operating condition or evidenced by demonstration of operation in actual tests or use to the satisfaction of OIL.
- xii) Rental Day Rate for individual item (prior to operating rate) will not be applicable till complete mobilization of entire set of different tool/equipment is affected as defined by Clause No. B-vi (a to f).
- xiii) If the particular tool / equipment are found to be non functional during operation thereby causing total shut down of operation, in that case neither operating rate nor rental rate will be applicable from the date of receipt of entire consignment of different tool/equipment at OIL designated site. Also, the Contractor shall commit themselves to replace the defective tool / equipment with the same specification (as per contract) within a very short period.
- xiv) The Rental Day Rate charges will be applicable as per "Special Terms and Conditions of Contract" in Section-III, Clause No.7.0.

(G) **RENTAL CHARGES OF ICD HANGER PACKER AND WASH PIPE SETTING TOOL : (Call out)**

- i) Rental Day Rate Charges shall be payable for following equipment: - ICD hanger packer and wash pipe setting tool assembly "1 (one) set, from the day the Contractor mobilizes those items to Company designated site to the day the Contractor demobilizes it under Company's advice.
- ii) No other charges, except above shall be payable to Contractor.
- iii) Rental Day Rate Charges will not be considered to be effective from the date of mobilization in case, the scheduled operation could not be started in the well or scheduled operation in any well had to be

suspended due to malfunctioning of any tool/equipment (surface or sub surface) attributed to the Contractor.

- iv) Rental Day Rate Charges will again be made effective (in case of above circumstances) from the time the normal down hole operation with all functional tool is resumed.

( N ) **COST OF CONSUMABLES :**

The bidders are required to quote various consumables showing item-wise quantity, rate, CIF and Landed Cost at Duliajan value as per the price format given below. The total consumption charges of each category of item ( viz. ICD, Stand-Off Band & Stop Collar, 7" Liner Hanger with Packer, 4" Liner Hanger with packer, Chemicals, Gas Lift Valve with inflatable Packer ( 2.7/8" tubing X 7"Casing ), 7" Retainer packer, LTSA) etc. should match with the value shown in the Price-Bid Format given in Proforma – B1.

( O ) **FORCE MAJEURE CHARGES :**

**DAYRATE& RENTAL FOR TOOLS / EQUIPMENT / PERSONNEL DURING FORCE MAJEURE:**

- i) Force majeure conditions are defined in Clause 11.0 of Section -I, "General Terms and Conditions" of this Contract.
- ii) All rates shown in Schedule of Rates shown above shall be restricted to 50% of respective charges for the service being provided by Contractor at the time of occurrence of force majeure situation.

This will be considered as FORCE MAJEURE RATE.

- iii) The Force Majeure Rate shall be payable during the first 10 days period of force majeure situation incase of all operations. No payment shall accrue to the Contractor beyond the first 10 days period unless mutually agreed upon.

2.0 **ZERO RATE :**

Notwithstanding any provision in the contract, no charges (rental, standby, operating for tools/equipments and personnel) shall be payable for the period, the job or activity assigned to the Contractor is halted due to breakdown of Contractor's tools/equipment, non-availability of key personnel or for any other reason whatsoever attributable to the Contractor.

- 2.1 Zero rates on tools/equipment & personnel shall be applicable on the primary bidder for any suspension of work due to non-availability of consumables/chemicals.

3.0 **Mobilization of additional no. of tools / equipment / Consumables :**

Contractor will be required to mobilize additional no. of tool/equipment/consumables during the course of the contract depending upon operational requirement at same rate/ terms & conditions of original contract.

However, Mobilization of additional consumables will be under same rate / terms & conditions as per original contract. There will be no additional mobilization charges against consumables.

OIL will have the option to mobilize additional no. of tools / equipment / consumables not as a package but on selective basis depending upon operational requirement. Engagement period of this additional no. of tools / equipment shall be decided based on operational requirement. Various charges for this additional activity under respective heading (such as operating rate, stand-by rate, rental etc. etc.) will be payable under same rate / terms & conditions of original contract.

#### 4.0 **CHARGES OF CALL OUT ITEMS :**

- (A) The Whipstock service shall be provided with Gyroscopic Survey System as a complete package. Window milling and running tool should be complete with but not limited to Gauge run assembly and Scraper.

##### **SRL NO. PARTICULARS/ACTIVITY UNIT QTY RATE**

1. **Whipstock Service :9.5/8" Casing** : Complete job with equipment and consumables such as mills, including mob and demob, manpower and Gyro setting services Lumpsum 2 (Two).
2. **Whipstock Service : 7" Casing** : Complete job with equipment and consumables such as mills, including mob and demob, manpower and Gyro setting services Lumpsum 2 (Two)

#### (C) **TRAVELLING CHARGES OF PERSONNEL FOR CALLOUT SERVICES (CALL OUT) :**

- i) The personnel required for Whipstock operation, Gyro operation may be utilized on callout basis at the discretion of OIL. The Travelling charges shall be payable upon completion of the respective job.
- ii) Travelling Charges shall be a "LUMP SUM" amount for each call covering all en-route expenses including but not limited to round trip airfares to operational site, travel time cost etc.
- iii) Travelling Charges shall be payable when the operating personnel are at well site/company designated site to undertake/commence the work assigned under the contract.

#### (D) **CALLOUT SERVICES FOR WINDOW MILL AND GYRO:**

- i) The window milling tool with Gauge run assembly and Scraper and North seeking Gyro tool required for whipstock operation may be utilized on callout basis at the discretion of OIL. These charges are inclusive of mobilization and de-mobilization of the tool and shall be payable upon completion of the respective job.

- ii) Travelling Charges shall be a "LUMP SUM" amount for each callout.
- iii) Call out Charges shall be payable when the tools are at well site to undertake/commence the work assigned under the contract.

**GENERAL NOTE :**

- i) Bidders should indicate name and address of their Indian agent if any and also should specify the percentage of commission if any involved and it should be included in the quoted rates. In case no Indian agent commission is involved then should be shown as "NIL".
- ii) Bidder should submit the list of items with CIF value to be imported into India in connection with execution of this contract as per Proforma-A.
- iii) From the Proforma, bidder should identify the items of re-exportable in nature (i.e. items which will not be consumed during the execution of the contract and required to be exported outside India after completion of the contract). Total CIF value of such items should be shown in the "PRICE BID FORMAT" as CIF (RE-EX).
- iv) Similarly from the Proforma - A, bidder should identify the items of consumable in nature (i.e. items which will be consumed during the execution of the contract). Total CIF value of such items should be shown in the "PRICE BID FORMAT" as CIF (CONSUMABLES).

***END OF SECTION – IV***

***&&&&***

**Details of Measurement / Logging While Drilling Surface Unit**

| <b>OIL Requirement</b>                                                                                                                                                                                                                                                                                                 | <b>Bidder's Offer</b> | <b>Ref: Page No. by bidder</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Online surface recording system for running MWD/LWD services in 12 ¼", 8 ½" & 6" holes with all accessories like signal pressure transducers, precision depth assembly and LWD logs including TVD logs in real time.                                                                                                   |                       |                                |
| Surface unit should be capable of recording MWD/LWD data for both long radius, medium radius, horizontal and vertical wells.                                                                                                                                                                                           |                       |                                |
| Data to be recorded in real time as well as in memory mode. System should be able to provide raw as well as processed data. Data to be provided in electronic media (PDS, PDF, LASS and standard industry format like DLIS / CLIS) in CD / DVD. System to have capability to retrieve data in memory mode at the site. |                       |                                |
| Unit should have provision for data compression feature and security protection as per prevalent Oil Industry standards.                                                                                                                                                                                               |                       |                                |
| System should have color / BW printing/ plotting facility at site and color printing / plotting facility at base.                                                                                                                                                                                                      |                       |                                |
| In the event of fault and failure of equipment & software hired from the CONTRACTOR, their personnel should be available for attending rectification of the problem.                                                                                                                                                   |                       |                                |

**Details of Collar based MWD tool for 12 ¼" and 8 ½" Hole Section**

| <b>TOOL FEATURES</b>                                 |             | <b>OIL Requirement</b>                                                                                                  | <b>Bidder's Offer</b> | <b>Ref: Page No. by bidder</b> |
|------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Telemetry Type                                       |             | Positive mud pulse                                                                                                      |                       |                                |
| Collar Sizes                                         |             | 6½" or 6¾", 7¾" or 8" or 8¼"                                                                                            |                       |                                |
| DLS (PER 100')                                       |             | 7-9° / 100' (Rotary) and 15° / 100' (Sliding) or better                                                                 |                       |                                |
| FLOW RANGE (GPM)                                     |             | Refer below ***                                                                                                         |                       |                                |
| MAX OPERATING TEMP.                                  |             | 150° C                                                                                                                  |                       |                                |
| MAX OPERATING PRESSURE (PSI)                         |             | 15000 - 20000                                                                                                           |                       |                                |
| REAL TIME UPDATE PERIOD                              |             | <= 20 Secs                                                                                                              |                       |                                |
| SURVEY TIME                                          |             | <= 120 Secs                                                                                                             |                       |                                |
| DIRECTIONAL MEASUREMENT POINT FROM BIT               | WITH GAMMA  | Minimum possible                                                                                                        |                       |                                |
| MEASUREMENT ACCURACY                                 | TOOL FACE   | ± 1.5°                                                                                                                  |                       |                                |
|                                                      | AZIMUTH     | ± 1.5°                                                                                                                  |                       |                                |
|                                                      | INCLINATION | ± 0.2°                                                                                                                  |                       |                                |
| MEASUREMENT RANGE:                                   |             | 0-100 deg or more                                                                                                       |                       |                                |
| LOST CIRCULATION MATERIAL (MAX SIZE & CONCENTRATION) |             |                                                                                                                         |                       |                                |
| POWER SOURCE (OPERATING TIME, HRS)                   |             | Life > 180 Hrs                                                                                                          |                       |                                |
| DATA TRANSMISSION RATE (BITS/SEC)                    |             | 5 bits/sec. or more and should be suitable to transmit data of various tools quoted in different segments of the tender |                       |                                |
| MTF/GTF SWITCH                                       |             | Programmable at surface                                                                                                 |                       |                                |
| COMPATIBILITY                                        |             | Combinable with LWD tools.                                                                                              |                       |                                |
| MANUFACTURER / MODEL                                 |             | Model Quoted Should be Latest and Best in Class                                                                         |                       |                                |

- The system to complete with pulsar, electronic sensors, power source etc. for transmitting and recording down-hole data in real time.
- \*\*\* Min. Flow Rate: 300 GPM or More & Max. Flow Rate: 700 GPM or more for 12 ¼" hole section; Min. Flow Rate: 300 GPM & Max. Flow Rate: 500 GPM or more for 8 ½" hole section.

Additional features/information (if any) is to be provided by the bidder.



**SPECIFICATION OF ANNULUS PRESSURE AND ANNULUS TEMPERATURE WHILE  
DRILLING TOOL FOR 12 ¼" & 8 ½" HOLE SIZES**

| <b>TOOL FEATURES</b>         | <b>OIL'S REQUIREMENT</b>                                                                             | <b>BIDDER'S OFFER</b> | <b>REF: PAGE NO. BY BIDDER</b> |
|------------------------------|------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| ECD and ESD CAPABILITY       | Pressure sensor to identify ECD(Equivalent Circulating Density) and ESD(Equivalent Static Density)   |                       |                                |
| ACCURACY                     | APWD pressure and temperature resolution should be 5 psi or less and 1.2 deg. C or less respectively |                       |                                |
| MEASUREMENT CAPABILITY       | Should be able to provide measurements in both OFF and ON conditions of the pumps.                   |                       |                                |
| LOT CAPABILITY               | Should be able to take min and max pressure measurements during LOT.                                 |                       |                                |
| MAX OPERATING TEMP.          | 150° C or more                                                                                       |                       |                                |
| MAX OPERATING PRESSURE (PSI) | 20000 PSI or more                                                                                    |                       |                                |
| MANUFACTURER / MODEL         | Model Quoted Should be Latest and Best in Class                                                      |                       |                                |

- APWD should be Combinable or integrated part of MWD & Induction Resistivity tools. Separate rates are to be quoted in both cases. If integrated with induction tool then for APWD sensors charges should not be built in main tools. Charges for APWD will be payable only when service are requisitioned and availed. Also, if integrated with resistivity, the CIF value of APWD portion only to be quoted.

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF ROTARY STEERABLE SYSTEM SUITABLE FOR DRILLING 12 ¼”  
HOLE**

| <b>MOTOR<br/>FEATURES</b>                                  | <b>OIL'S<br/>REQUIREMENT</b>                                                                                    | <b>BIDDER'S<br/>OFFER</b> | <b>REF: PAGE NO.<br/>BY BIDDER</b> |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------|
| Flow Range in<br>GPM                                       | Min. Flow Rate: 500<br>GPM or more.<br>Max. Flow Rate: 900<br>GPM or more.                                      |                           |                                    |
| Maximum Housing<br>OD.                                     | 10” or less                                                                                                     |                           |                                    |
| Near Bit<br>Inclination                                    | 2 M or less                                                                                                     |                           |                                    |
| Max Operating<br>Temp.                                     | 150° C or more                                                                                                  |                           |                                    |
| Max Operating<br>Pressure (Psi)                            | 20000 PSI or more                                                                                               |                           |                                    |
| Type of<br>Connection                                      | 6 <sup>5</sup> / <sub>8</sub> ” API Regular Box<br>down and 6 <sup>5</sup> / <sub>8</sub> ” API<br>Reg. Box Up. |                           |                                    |
| Lifting Sub                                                | 6 <sup>5</sup> / <sub>8</sub> ” API Reg.                                                                        |                           |                                    |
| DLS Maximum<br>Achievable                                  | 5° / 100' or more.                                                                                              |                           |                                    |
| Min. Circulating<br>Hrs.                                   | 150 or more.                                                                                                    |                           |                                    |
| Max. RPM                                                   | 220 or more.                                                                                                    |                           |                                    |
| Lost Circulation<br>Material (Max Size<br>& Concentration) | 40 ppb or more of<br>medium to fine nut.                                                                        |                           |                                    |
| Manufacturer /<br>Model                                    | From the<br>manufacturers<br>specified in NIT.<br>Model Quoted<br>Should be Latest and<br>Best in Class         |                           |                                    |

- Should capable of kick up from vertical well
  - System should be capable of building, holding, and dropping well angle and should be capable of simultaneously changing azimuth in continuously rotating for optimum drilling performance and have capability for back reaming, if required.
  - System should have features of automated close loop deviation control system (i.e. it should have automated directional and inclinational hold control)
  - System should have two way communication system i.e. real time up link and down link facility for data transmission and for sending command to the bottom hole tools with mud pulse telemetry.
  - Type of down linking facility to be provided by bidder either by a separate skid mounted unit or by flow rate change of mud pumps.
  - System should be able to drill cement, float collar, float shoe and formation.
- Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF ROTARY STEERABLE SYSTEM SUITABLE FOR DRILLING 8 ½”  
HOLE**

| <b>MOTOR<br/>FEATURES</b>                                  | <b>OIL'S<br/>REQUIREMENT</b>                                                                            | <b>BIDDER'S<br/>OFFER</b> | <b>REF: PAGE NO.<br/>BY BIDDER</b> |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------|
| Flow Range in<br>GPM                                       | Min. Flow Rate: 300<br>GPM or more.<br>Max. Flow Rate: 600<br>GPM or more.                              |                           |                                    |
| Maximum Housing<br>OD.                                     | 8” or less                                                                                              |                           |                                    |
| Near Bit<br>Inclination                                    | 2 M or less                                                                                             |                           |                                    |
| Max Operating<br>Temp.                                     | 150° C or more                                                                                          |                           |                                    |
| Max Operating<br>Pressure (Psi)                            | 18000 PSI or more                                                                                       |                           |                                    |
| Type of<br>Connection                                      | 4 ½” API IF Box<br>down and 4 ½” API<br>IF Box Up                                                       |                           |                                    |
| Lifting Sub                                                | 4 ½” API IF                                                                                             |                           |                                    |
| DLS Maximum<br>Achievable                                  | 5° / 100' or more.                                                                                      |                           |                                    |
| Minimum<br>Circulating Hrs.                                | 150 or more.                                                                                            |                           |                                    |
| Maximum RPM                                                | 220 or more.                                                                                            |                           |                                    |
| Lost Circulation<br>Material (Max Size<br>& Concentration) | 40 ppb or more of<br>medium to fine nut.                                                                |                           |                                    |
| Manufacturer /<br>Model                                    | From the<br>manufacturers<br>specified in NIT.<br>Model Quoted<br>Should be Latest and<br>Best in Class |                           |                                    |

- Should capable of kick up from vertical well
- System will be utilized in horizontal wells. RSS tool for 8½” hole size might also be used in drilling ERD wells of sail angle 55° - 85°.
- System to be efficient in making open hole horizontal sidetracks for fishbone multilaterals as well as for making laterals from cased horizontal well bore.
- System should be capable of building, holding, and dropping well angle and should be capable of simultaneously changing azimuth in continuously rotating for optimum drilling performance and have capability for back reaming, if required.
- System should have features of automated close loop deviation control system (i.e. it should have automated directional and inclinational hold control)
- System should have two way communication system i.e. real time up link and down link facility for data transmission and for sending command to the bottom hole tools with mud pulse telemetry.

- Type of down linking facility to be provided by bidder either by a separate skid mounted unit or by flow rate change of mud pumps.
- System should be able to drill cement, float collar, float shoe and formation.

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF DRILLING JARS (Hydro-mech/Hydraulic)**

|                                    | JAR FEATURES                 | OIL'S REQUIREMENT                        | BIDDER'S OFFER | REF: PAGE NO. BY BIDDER |
|------------------------------------|------------------------------|------------------------------------------|----------------|-------------------------|
| <b>7 3/4" / 8" OD Drilling Jar</b> | Length (Maximum)             | 30 feet (± 3 feet)                       |                |                         |
|                                    | ID (Minimum)                 | 2.3/4"                                   |                |                         |
|                                    | Tool Joint                   | 6 5/8" API Reg. Box x Pin                |                |                         |
|                                    | Torsional Yield              | Not less than 95,000 ft-lbs              |                |                         |
|                                    | Jar Up-stroke minimum        | 260,000 pounds                           |                |                         |
|                                    | Jar Down-stroke minimum      | 42,000 pounds                            |                |                         |
|                                    | Stroke Length (Up & Down)    | 24" Minimum                              |                |                         |
|                                    | Tensile Yield                | 10, 00,000 lbs.                          |                |                         |
|                                    | Max Operating Temp.          | 150° C or more                           |                |                         |
|                                    | Max Operating Pressure (Psi) | 20000 PSI or more                        |                |                         |
|                                    | Manufacturer / Model         | From the manufacturers specified in NIT. |                |                         |

|                                        | JAR FEATURES                 | OIL'S REQUIREMENT                        | BIDDER'S OFFER | REF: PAGE NO. BY BIDDER |
|----------------------------------------|------------------------------|------------------------------------------|----------------|-------------------------|
| <b>6 1/2" / 6 3/4" OD Drilling Jar</b> | Length (Maximum)             | 30 feet (± 3 feet)                       |                |                         |
|                                        | ID (Minimum)                 | 2 1/2" ID                                |                |                         |
|                                        | Tool Joint                   | 4 1/2" API IF Box x Pin                  |                |                         |
|                                        | Torsional Yield              | Not less than 50,000 ft-lbs              |                |                         |
|                                        | Jar Up-stroke minimum        | 160,000 pounds                           |                |                         |
|                                        | Jar Down-stroke minimum      | 37600 pounds                             |                |                         |
|                                        | Stroke Length (Up & Down)    | 24" Minimum                              |                |                         |
|                                        | Tensile Yield                | 730,000 Lbs.                             |                |                         |
|                                        | Max Operating Temp.          | 150° C or more                           |                |                         |
|                                        | Max Operating Pressure (Psi) | 18000 PSI or more                        |                |                         |
|                                        | Manufacturer / Model         | From the manufacturers specified in NIT. |                |                         |

- All x-over subs required from contractor's drill string to operator's drill string for MWD and LWD assembly is to be provided and furnished by the CONTRACTOR.
- In case the contractor provides retrievable RA sources, assembly should have the suitable ID to retrieve the sources if any.

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF DRILLING JAR INTENSIFIERS**

|                                                | <b>JAR INTENSIFIER<br/>FEATURES</b> | <b>OIL'S REQUIREMENT</b>                                          | <b>BIDDER'S<br/>OFFER</b> | <b>REF: PAGE NO<br/>BY BIDDER</b> |
|------------------------------------------------|-------------------------------------|-------------------------------------------------------------------|---------------------------|-----------------------------------|
| <b>6½"/6¾" OD Drilling Jar<br/>Intensifier</b> | Length (Maximum)                    | 30 feet (± 3 feet)                                                |                           |                                   |
|                                                | ID (Minimum)                        | 2¾" ID                                                            |                           |                                   |
|                                                | Tool Joint                          | 4½" API IF Box x Pin                                              |                           |                                   |
|                                                | Torsional Yield (Minimum)           | 41,000 ft-lbs                                                     |                           |                                   |
|                                                | Jar Up-stroke minimum               | 180,000 Lbs.                                                      |                           |                                   |
|                                                | Jar Down-stroke minimum             | 150,000 Lbs.                                                      |                           |                                   |
|                                                | Stroke Length (Up & Down)           | 12" Minimum both                                                  |                           |                                   |
|                                                | Tensile Yield (Minimum)             | 730,000 Lbs.                                                      |                           |                                   |
|                                                | Manufacturer / Model                | Same make as that of<br>the JARS and 100%<br>compatible with JARS |                           |                                   |

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF LWD TOOLS FOR 12 ¼" AND 8 ½" HOLE SECTIONS**

| <b>Service Description</b>                                                    | <b>Required Specifications</b>                                                                                                                                                                     |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GR, Resistivity (Induction type) hole size: 12.25 inch & 8.5 inch Code: GRIND | Temperature rating: 300 deg F or more                                                                                                                                                              |
|                                                                               | Pressure rating: 18000 PSI or more                                                                                                                                                                 |
|                                                                               | Measurement while drilling (MWD):                                                                                                                                                                  |
|                                                                               | Resistivity and Gamma ray logging are required for 12.25 inch & 8.5 inch hole size and should be combinable & compatible with MWD and other LWD equipment.                                         |
|                                                                               | The provision of real time data transmission should exist. Data is to be recorded in memory mode as well. Data also is to be recorded while pulling out by back reaming / with pump-on.            |
|                                                                               | Resistivity Measurement:                                                                                                                                                                           |
|                                                                               | To be recorded in Multiple frequencies and in multiple depth of investigations (minimum 5).<br>Bore-hole compensated phase & attenuation measurement systems with multiple depths of investigation |
|                                                                               | Resistivity measurement: 0.2 to 200 Ohm-m and above                                                                                                                                                |
|                                                                               | Invasion Profile from curve separations                                                                                                                                                            |
|                                                                               | Gamma Ray:                                                                                                                                                                                         |
|                                                                               | Gamma Ray 0-250 API                                                                                                                                                                                |
|                                                                               | Resistivity should be right at the bit by using bit as an electrode also                                                                                                                           |
|                                                                               | Gamma Ray:                                                                                                                                                                                         |
|                                                                               | Gamma Ray range between 0-250 API unit                                                                                                                                                             |

**SPECIFICATION OF NEUTRON, AZIMUTHAL DENSITY WITH  
IMAGING & CALIPER FOR 8 ½" HOLE SECTION**

| <b>Service<br/>Description</b>                                                                                  | <b>Required Specifications</b>                                                                        |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Neutron,<br>Azimuthal<br>Densitywith<br>imaging &<br>Caliper hole<br>size: 8.5 inch<br>hole<br>Code:<br>RHONPHI | Temperature rating: 300 deg F or more                                                                 |
|                                                                                                                 | Pressure rating: 18000 PSI or more                                                                    |
|                                                                                                                 | Azimuthal Density Range = 1.8 to 2.8 gm/ cc                                                           |
|                                                                                                                 | Pe = 1 to 10 units                                                                                    |
|                                                                                                                 | Neutron porosity = -6 to 54 P.U. or 0 to 60 P.U.                                                      |
|                                                                                                                 | Azimuthal density from four quadrant and images are to be provided as per the operational requirement |



**DELIVERABLES FOR TOOLS MENTIONED ABOVE**

| <b>Sl</b> | <b>Equipment/Description</b>                                                            | <b>Real Time Output</b>                                                                                                                                                               | <b>Memory Mode Output after each round trip</b>                                                                                                                                                      | <b>Processed Output (after completion of a hole section)</b>                                                                                                                                                                         | <b>Processed Output (after completion of a well)</b>                                                                                                                                                                                                    |
|-----------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (I)       | Delivery Time                                                                           | Real-Time while Drilling/Tripping                                                                                                                                                     | Within 24 hrs. of round trip                                                                                                                                                                         | Within 3 days of completion of Hole Section                                                                                                                                                                                          | Within 3 days of completion of Well                                                                                                                                                                                                                     |
| (II)      | Deliverables                                                                            | RT Log Prints in Morning and Evening and whenever required during drilling                                                                                                            | Rush Print Memory Mode Log Prints                                                                                                                                                                    | Memory Recorded Mode Log Prints<br><br>2 Copies each                                                                                                                                                                                 | QC'd Recorded Mode Composite Log Prints<br><br>2 Copies each LAS/DLIS and PDS/ PDF format In DVD                                                                                                                                                        |
| (III)     | Directional , GR, Resistivity (Induction type) (GRIND) hole size: 12.25 inch & 8.5 inch | GR – 0 -250 API Phase Shift resistivity – Minimum 3 Curves<br>Attenuation Resistivity – Minimum 1 Curve<br>(Resistivity Curves to be transmitted after prior discussion with Company) | GR – 0 -250 API Phase Shift resistivity – Minimum 4 Curves<br>Attenuation Resistivity – Minimum 4 Curves<br><br>All resistivity curves should be borehole compensated and environmentally corrected. | Memory Recorded Mode Log Prints of GR – 0 - 250 API Phase Shift resistivity – Minimum 4 Curves<br>Attenuation Resistivity – Minimum 4 Curves<br>All resistivity curves should be borehole compensated and environmentally corrected. | Recorded Mode Composite Log Prints<br><br>Average GR – 0 - 250 API Phase Shift resistivity – Minimum 4 Curves<br>Attenuation Resistivity – Minimum 4 Curves<br><br>All resistivity curves should be borehole compensated and environmentally corrected. |
| (IV)      | Neutron, Azimuthal Density with imaging & Caliper (RHONPHI) hole size: 8.5 inch         | Quadrant Density- Minimum Top and Bottom Density transmitted in real-time ("bottom" density in case of a                                                                              | Field Deliverable recorded mode data consisting the following :-<br><br>Quadrant Density<br>Quadrant Density<br>Density Correction                                                                   | Recorded mode Data :<br><br>Quadrant Density<br>Quadrant Density Correction<br>Caliper (Ultrasonic / Density )<br>PEF - 0- 10                                                                                                        | Recorded mode Composite Data and End of Well Report :-<br><br>Density<br>Quadrant Density<br>Quadrant Density Correction                                                                                                                                |

| <b>Sl</b> | <b>Equipment/<br/>Description</b> | <b>Real Time<br/>Output</b>                                                                                                                                                                                            | <b>Memory Mode<br/>Output after<br/>each round trip</b>                                                                                                                             | <b>Processed<br/>Output (after<br/>completion of a<br/>hole section)</b>                                                                                                                                                                             | <b>Processed<br/>Output (after<br/>completion of<br/>a well)</b>                                                                                                                                  |
|-----------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |                                   | deviated borehole)<br><br>Quadrant Density Correction PEF-0-10 Thermal Neutron Porosity - environmentally corrected log curves on-depth 16 Sector Density Image<br><br>Real-time data at 2 data points / ft. or better | Caliper (Ultrasonic / Density)<br>PEF-0-10 Thermal Neutron Porosity - environmentally corrected log curves on-depth Time after Bit Sliding indicator 16 Sector Static Density Image | Thermal Neutron Porosity environmentally-corrected log curves on-depth Time after Bit Sliding indicator 16 Sector Static Density Image<br><br>Corrected near far counts of neutron should also be provided One copy in LAS/DLIS to Logging Services. | Caliper (Ultrasonic / Density)<br><br>PEF - 0- Thermal Neutron Porosity environmentally corrected curves on depth Time after Bit Sliding indicator 16 Sector Static Density Image Derived Density |

**NOTE:** Bidder should provide their offer (detailed specification) to meet with the above specified requirement by OIL. Make, Model & Additional features/information (if any) is to be provided by the bidder

**OPTIONAL AND CALL OUT ITEMS****SPECIFICATION OF ROTARY STEERABLE SYSTEM SUITABLE FOR DRILLING 6”  
HOLE**

| <b>MOTOR<br/>FEATURES</b>                                  | <b>OIL’S<br/>REQUIREMENT</b>                                                                            | <b>BIDDER’S<br/>OFFER</b> | <b>REF: PAGE NO.<br/>BY BIDDER</b> |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------|
| Flow Range in<br>GPM                                       | Min. Flow Rate: 200<br>GPM or more.<br>Max. Flow Rate: 350<br>GPM or more.                              |                           |                                    |
| Maximum Housing<br>OD.                                     | 5.25” or less                                                                                           |                           |                                    |
| Near Bit<br>Inclination                                    | 2 M or less                                                                                             |                           |                                    |
| Max Operating<br>Temp.                                     | 150° C or more                                                                                          |                           |                                    |
| Max Operating<br>Pressure (Psi)                            | 18000 PSI or more                                                                                       |                           |                                    |
| Type of<br>Connection                                      | 3 ½” API IF Box<br>down and 3 ½” API<br>IF Box Up                                                       |                           |                                    |
| Lifting Sub                                                | 3 ½” API IF                                                                                             |                           |                                    |
| DLS Maximum<br>Achievable                                  | 8° / 100’ or more.                                                                                      |                           |                                    |
| Minimum<br>Circulating Hrs.                                | 150 or more.                                                                                            |                           |                                    |
| Maximum RPM                                                | 220 or more.                                                                                            |                           |                                    |
| Lost Circulation<br>Material (Max Size<br>& Concentration) | 40 ppb or more of<br>medium to fine nut.                                                                |                           |                                    |
| Manufacturer /<br>Model                                    | From the<br>manufacturers<br>specified in NIT.<br>Model Quoted<br>Should be Latest and<br>Best in Class |                           |                                    |

- System will be utilized in horizontal wells. RSS tool for 8½” hole size might also be used in drilling ERD wells of sail angle 55° - 85°.
- System to be efficient in making open hole horizontal sidetracks for fishbone multilaterals as well as for making laterals from cased horizontal well bore.
- System should be capable of building, holding, and dropping well angle and should be capable of simultaneously changing azimuth in continuously rotating for optimum drilling performance and have capability for back reaming, if required.
- System should have features of automated close loop deviation control system (i.e. it should have automated directional and inclinational hold control)
- System should have two way communication system i.e. real time up link and down link facility for data transmission and for sending command to the bottom hole tools with mud pulse telemetry.

- Type of down linking facility to be provided by bidder either by a separate skid mounted unit or by flow rate change of mud pumps.
- System should be able to drill cement, float collar, float shoe and formation.

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF DRILLING JARS (Hydro-mech/Hydraulic)**

|                               | <b>JAR FEATURES</b>       | <b>OIL'S REQUIREMENT</b>                 | <b>BIDDER'S OFFER</b> | <b>REF: PAGE NO. BY BIDDER</b> |
|-------------------------------|---------------------------|------------------------------------------|-----------------------|--------------------------------|
| <b>4 3/4" OD Drilling Jar</b> | Length (Maximum)          | 30 feet (± 3 feet)                       |                       |                                |
|                               | ID (Minimum)              | 2 1/4"                                   |                       |                                |
|                               | Tool Joint                | 3 1/2" API IF Box x Pin                  |                       |                                |
|                               | Torsional Yield           | Not less than 18,000<br>21,000 ft-lbs    |                       |                                |
|                               | Jar Up-stroke minimum     | 80,000 pounds                            |                       |                                |
|                               | Jar Down-stroke minimum   | 22,000 pounds                            |                       |                                |
|                               | Stroke Length (Up & Down) | 24" Minimum                              |                       |                                |
|                               | Tensile Yield             | 362,000 Lbs.                             |                       |                                |
|                               | Manufacturer / Model      | From the manufacturers specified in NIT. |                       |                                |

**SPECIFICATION OF DRILLING JAR INTENSIFIERS**

|                                           | <b>JAR FEATURES</b>       | <b>OIL'S REQUIREMENT</b>                                    | <b>BIDDER'S OFFER</b> | <b>REF: PAGE NO. BY BIDDER</b> |
|-------------------------------------------|---------------------------|-------------------------------------------------------------|-----------------------|--------------------------------|
| <b>4 3/4" OD Drilling Jar Intensifier</b> | Length (Maximum)          | 30 feet (± 3 feet)                                          |                       |                                |
|                                           | ID (Minimum)              | 2 1/4"                                                      |                       |                                |
|                                           | Tool Joint                | 3 1/2" API IF Box x Pin                                     |                       |                                |
|                                           | Torsional Yield (Minimum) | 21,000 ft-lbs                                               |                       |                                |
|                                           | Jar Up-stroke minimum     | 90,000 Lbs.                                                 |                       |                                |
|                                           | Jar Down-stroke minimum   | 75,000 Lbs.                                                 |                       |                                |
|                                           | Stroke Length (Up & Down) | 12" Minimum both                                            |                       |                                |
|                                           | Tensile Yield (Minimum)   | 362,000 Lbs.                                                |                       |                                |
|                                           | Manufacturer / Model      | Same make as that of the JARS and 100% compatible with JARS |                       |                                |

- All x-over subs required from contractor's drill string to operator's drill string for MWD and LWD assembly is to be provided and furnished by the CONTRACTOR.
- In case the contractor provides retrievable RA sources, assembly should have the suitable ID to retrieve the sources if any.

Additional features/information (if any) is to be provided by the bidder.

**Details of Collar based MWD tool for 6” Hole Section**

| <b>TOOL FEATURES</b>                                 |             | <b>OIL Requirement</b>                                                                                                  | <b>Bidder's Offer</b> | <b>Ref: Page No. by bidder</b> |
|------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Telemetry Type                                       |             | Positive mud pulse                                                                                                      |                       |                                |
| Collar Sizes                                         |             | 4 ¾"                                                                                                                    |                       |                                |
| DLS (PER 100')                                       |             | 7-9° / 100' (Rotary) and 15° / 100' (Sliding) or better                                                                 |                       |                                |
| FLOW RANGE (GPM)                                     |             | 200 to 350 or more                                                                                                      |                       |                                |
| MAX OPERATING TEMP.                                  |             | 150° C                                                                                                                  |                       |                                |
| MAX OPERATING PRESSURE (PSI)                         |             | 15000 - 20000                                                                                                           |                       |                                |
| REAL TIME UPDATE PERIOD                              |             | <= 20 Secs                                                                                                              |                       |                                |
| SURVEY TIME                                          |             | <= 120 Secs                                                                                                             |                       |                                |
| DIRECTIONAL MEASUREMENT POINT FROM BIT               |             | Minimum possible                                                                                                        |                       |                                |
| MEASUREMENT ACCURACY                                 | TOOL FACE   | ± 1.5°                                                                                                                  |                       |                                |
|                                                      | AZIMUTH     | ± 1.5°                                                                                                                  |                       |                                |
|                                                      | INCLINATION | ± 0.2°                                                                                                                  |                       |                                |
| MEASUREMENT RANGE:                                   |             | 0-100 deg or more                                                                                                       |                       |                                |
| LOST CIRCULATION MATERIAL (MAX SIZE & CONCENTRATION) |             |                                                                                                                         |                       |                                |
| POWER SOURCE (OPERATING TIME, HRS)                   |             | Life > 180 Hrs                                                                                                          |                       |                                |
| DATA TRANSMISSION RATE (BITS/SEC)                    |             | 5 bits/sec. or more and should be suitable to transmit data of various tools quoted in different segments of the tender |                       |                                |
| MTF/GTF SWITCH                                       |             | Programmable at surface                                                                                                 |                       |                                |
| COMPATIBILTY                                         |             | Combinable with LWD tools.                                                                                              |                       |                                |
| MANUFACTURER / MODEL                                 |             | Model Quoted Should be Latest and Best in Class                                                                         |                       |                                |

- The system to complete with pulsar, electronic sensors, power source etc. for transmitting and recording down-hole data in real time.

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF ANNULUS PRESSURE AND ANNULUS TEMPERATURE WHILE DRILLING TOOL FOR 6" HOLE SIZES**

| <b>TOOL FEATURES</b>         | <b>OIL'S REQUIREMENT</b>                                                                             | <b>BIDDER'S OFFER</b> | <b>REF: PAGE NO. BY BIDDER</b> |
|------------------------------|------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| ECD and ESD CAPABILITY       | Pressure sensor to identify ECD(Equivalent Circulating Density) and ESD(Equivalent Static Density)   |                       |                                |
| ACCURACY                     | APWD pressure and temperature resolution should be 5 psi or less and 1.2 deg. C or less respectively |                       |                                |
| MEASUREMENT CAPABILITY       | Should be able to provide measurements in both OFF and ON conditions of the pumps.                   |                       |                                |
| LOT CAPABILITY               | Should be able to take min and max pressure measurements during LOT.                                 |                       |                                |
| MAX OPERATING TEMP.          | 150° C or more                                                                                       |                       |                                |
| MAX OPERATING PRESSURE (PSI) | 20000 PSI or more                                                                                    |                       |                                |
| MANUFACTURER / MODEL         | Model Quoted Should be Latest and Best in Class                                                      |                       |                                |

- APWD should be Combinable or integrated part of MWD & Induction Resistivity tools. Separate rates are to be quoted in both cases. If integrated with induction tool then for APWD sensors charges should not be built in main tools. Charges for APWD will be payable only when service are requisitioned and availed. Also, if integrated with resistivity, the CIF value of APWD portion only to be quoted.

Additional features/information (if any) is to be provided by the bidder.

**SPECIFICATION OF LWD TOOLS FOR 6" HOLE SECTIONS**

| <b>Service Description</b>                                           | <b>Required Specifications</b>                                                                                                                                                                     |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GR, Resistivity (Induction type)<br>hole size: 6 inch<br>Code: GRIND | Temperature rating: 300 deg F or more                                                                                                                                                              |
|                                                                      | Pressure rating: 18000 PSI or more                                                                                                                                                                 |
|                                                                      | Measurement while drilling (MWD):                                                                                                                                                                  |
|                                                                      | Resistivity and Gamma ray logging are required for 6 inch hole size and should be combinable & compatible with MWD and other LWD equipment.                                                        |
|                                                                      | The provision of real time data transmission should exist. Data is to be recorded in memory mode as well. Data also is to be recorded while pulling out by back reaming / with pump-on.            |
|                                                                      | Resistivity Measurement:                                                                                                                                                                           |
|                                                                      | To be recorded in Multiple frequencies and in multiple depth of investigations (minimum 5).<br>Bore-hole compensated phase & attenuation measurement systems with multiple depths of investigation |
|                                                                      | Resistivity measurement: 0.2 to 200 Ohm-m and above                                                                                                                                                |
|                                                                      | Invasion Profile from curve separations                                                                                                                                                            |
|                                                                      | Gamma Ray:                                                                                                                                                                                         |
|                                                                      | Gamma Ray 0-250 API                                                                                                                                                                                |
|                                                                      | Resistivity should be right at the bit by using bit as an electrode also                                                                                                                           |
|                                                                      | Gamma Ray:                                                                                                                                                                                         |
|                                                                      | Gamma Ray range between 0-250 API unit                                                                                                                                                             |



**ANNEXURE-P****SPECIFICATION OF NEUTRON, AZIMUTHAL DENSITY WITH  
IMAGING & CALIPER FOR 6" HOLE SECTION**

| <b>Service Description</b>                                                                | <b>Required Specifications</b>                                                                        |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Neutron, Azimuthal Density with imaging & Caliper hole size: 6 inch hole<br>Code: RHONPHI | Temperature rating: 300 deg F or more                                                                 |
|                                                                                           | Pressure rating: 18000 PSI or more                                                                    |
|                                                                                           | Azimuthal Density Range = 1.8 to 2.8 gm/ cc                                                           |
|                                                                                           | Pe = 1 to 10 units                                                                                    |
|                                                                                           | Neutron porosity = -6 to 54 P.U. or 0 to 60 P.U.                                                      |
|                                                                                           | Azimuthal density from four quadrant and images are to be provided as per the operational requirement |

**ANNEXURE-Q****SPECIFICATION OF DISTANCE & DIRECTION TO BED BOUNDARY  
IDENTIFICATION FOR 6" HOLE SECTION**

| <b>Service Description</b>                                                                | <b>Required Specifications</b>                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distance & Direction to Bed Boundary Identification<br>hole size: & 6 inch<br>Code: DDBBI | Temperature rating: 300 deg F or more                                                                                                                                                                                              |
|                                                                                           | Pressure rating: 18000 PSI or more                                                                                                                                                                                                 |
|                                                                                           | Should be combinable with Directional, GR, Induction & APWD tool                                                                                                                                                                   |
|                                                                                           | Uses electromagnetic propagation at 20 KHz or more frequency.                                                                                                                                                                      |
|                                                                                           | Uses electromagnetic propagation to detect formation or fluid boundaries in a radius up to 15ft, 360 degrees around the borehole with direction from tool.                                                                         |
|                                                                                           | Can detect the direction of these boundaries at any angle out of 360 degrees around the borehole (for the situation when the boundary is not directly above or below but could approach from any angle around the borehole).       |
|                                                                                           | <b>Distance to boundary</b> (formation fluid) with direction to be measured and provided by DBBI tool.                                                                                                                             |
|                                                                                           | <b>Special Scope of work for DBBI:</b>                                                                                                                                                                                             |
|                                                                                           | Preparation of pre job modeling (layer wise-depth wise model of formation in which drain hole is planned to be drilled) and its updating with the data acquired                                                                    |
|                                                                                           | Post job analysis (layer wise-depth wise model of formation in which drain hole has been drilled and position of well in the formation and model update (revised layer wise-depth wise model of formation based upon drilled data. |

| <b>Service Description</b> | <b>Required Specifications</b>                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | The services of one DBBI specialist with 2 years or more wellplacement experience has to be provided along with DBBI tool atwell siteduring the operating mode of DBBItool in 12 hour shift(total 2 nos.) at no additional cost.                                                                                                                                                                            |
|                            | They will endeavor to achieve the targets to be provided duringthe period of drilling and they will endeavor to achieve the targetsset by OIL.                                                                                                                                                                                                                                                              |
|                            | <b>Type of DBBI Tool offered:</b>                                                                                                                                                                                                                                                                                                                                                                           |
|                            | Bidder to confirm whether offered tool/ service is an<br>a) Independent tool and combinable with Induction resistivity toolquoted under code GRIND<br>Or<br>b) Tool capable of meetingboth DDBBI & Induction resistivityrequiremen t under. GRIND                                                                                                                                                           |
|                            | Bidder has to mention what type of tool they are offering againstDDBBI. Bidder may indicate both with literature initially ifavailable.                                                                                                                                                                                                                                                                     |
|                            | <b>Conditions:</b>                                                                                                                                                                                                                                                                                                                                                                                          |
|                            | Following conditions will apply in the case contractor offers andmobilizes DDBBI tool capable of DDBBI and induction resistivity ofGRIND.                                                                                                                                                                                                                                                                   |
|                            | Contractor can mobilize DBBI tool capable of performing services ofinduction resistivity tool of GRIND. In such case standby andoperating charges as per GRIND only will be payable. As and when this tool is offered by contractor as DDBBI service on company'srequest, then one stand by charges for this tool will be payable asper GRIND and operating charges will be payable for DDBBI andGRINDboth. |

**DELIVERABLES FOR TOOLS MENTIONED ABOVE**

| Sl    | Equipment/Description                                                         | Real Time Output                                                                                                                                                                      | Memory Mode Output after each round trip                                                                                                                                                             | Processed Output (after completion of a hole section)                                                                                                                                                                                | Processed Output (after completion of a well)                                                                                                                                                                                                           |
|-------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (I)   | Delivery Time                                                                 | Real-Time while Drilling/Tripping                                                                                                                                                     | Within 24 hrs. of round trip                                                                                                                                                                         | Within 3 days of completion of Hole Section                                                                                                                                                                                          | Within 3 days of completion of Well                                                                                                                                                                                                                     |
| (II)  | Deliverables                                                                  | RT Log Prints in Morning and Evening and whenever required during drilling                                                                                                            | Rush Print Memory Mode Log Prints                                                                                                                                                                    | Memory Recorded Mode Log Prints<br><br>2 Copies each                                                                                                                                                                                 | QC'd Recorded Mode Composite Log Prints<br><br>2 Copies each LAS/DLIS and PDS/ PDF format In DVD                                                                                                                                                        |
| (III) | Directional , GR, Resistivity (Induction type) (GRIND) hole size: 6 inch      | GR – 0 -250 API Phase Shift resistivity – Minimum 3 Curves<br>Attenuation Resistivity – Minimum 1 Curve<br>(Resistivity Curves to be transmitted after prior discussion with Company) | GR – 0 -250 API Phase Shift resistivity – Minimum 4 Curves<br>Attenuation Resistivity – Minimum 4 Curves<br><br>All resistivity curves should be borehole compensated and environmentally corrected. | Memory Recorded Mode Log Prints of GR – 0 - 250 API Phase Shift resistivity – Minimum 4 Curves<br>Attenuation Resistivity – Minimum 4 Curves<br>All resistivity curves should be borehole compensated and environmentally corrected. | Recorded Mode Composite Log Prints<br><br>Average GR – 0 - 250 API Phase Shift resistivity – Minimum 4 Curves<br>Attenuation Resistivity – Minimum 4 Curves<br><br>All resistivity curves should be borehole compensated and environmentally corrected. |
| (IV)  | Neutron, Azimuthal Density with imaging & Caliper (RHONPHI) hole size: 6 inch | Quadrant Density- Minimum Top and Bottom Density transmitted in real-time ("bottom" density in case of a deviated borehole)                                                           | Field Deliverable recorded mode data consisting the following :-<br><br>Quadrant Density<br>Quadrant Density Correction<br>Caliper (Ultrasonic /                                                     | Recorded mode Data :<br><br>Quadrant Density<br>Quadrant Density Correction<br>Caliper (Ultrasonic / Density )<br>PEF - 0- 10<br>Thermal Neutron Porosity                                                                            | Recorded mode Composite Data and End of Well Report :-<br><br>Density<br>Quadrant Density<br>Quadrant Density Correction<br>Caliper (Ultrasonic / Density)                                                                                              |

| Sl | Equipment/Description                                         | Real Time Output                                                                                                                                                                                                                               | Memory Mode Output after each round trip                                                                                                                   | Processed Output (after completion of a hole section)                                                                                                                                                                       | Processed Output (after completion of a well)                                                                                                                    |
|----|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    |                                                               | Quadrant Density Correction PEF-0-10 Thermal Neutron Porosity - environmentally corrected log curves on-depth 16 Sector Density Image<br><br>Real-time data at 2 data points / ft. or better                                                   | Density) PEF-0-10 Thermal Neutron Porosity - environmentally corrected log curves on-depth Time after Bit Sliding indicator 16 Sector Static Density Image | environmentally-corrected log curves on-depth Time after Bit Sliding indicator 16 Sector Static Density Image<br><br>Corrected near far counts of neutron should also be provided One copy in LAS/DLIS to Logging Services. | PEF - 0- Thermal Neutron Porosity environment and ally corrected curves on depth Time after Bit Sliding indicator 16 Sector Static Density Image Derived Density |
|    | Directional Bed Boundary Imaging (DDBBI)<br>Hole size: 6 inch | RT update of 2D Model<br><br>WP progress report during twice daily during execution. Qualitative distance to fluid/formation boundaries 360 deg around borehole. 360 deg direction of bed boundaries RT mapping of boundaries for geo-steering | NIL                                                                                                                                                        | Post Job model update based on Recorded data by a well placement expert.<br><br>Detailed Well Placement Report within 5 working days of completion of well.                                                                 | NIL                                                                                                                                                              |

**NOTE:** Bidder should provide their offer (detailed specification) to meet with the above specified requirement by OIL. Make, Model & Additional features/information (if any) is to be provided by the bidder

**Details of Liner Hanger with Packer for 7 inch. Liner / 29 PPF / BTC / N – 80**  
**X9.5/8 inch / 47 PPF**

**The liner hanger should be complete with but not limited to:**

All floating / guiding accessory inclusive of Tie – Back Receptacle, Running Tool or Setting Tool, 5 inch. Drill Pipe Cementing Head / manifold with cementing accessory for successful lowering of 7 inch. Liner / setting of hanger, cementing of liner and setting of Packer.

The Hanger and Packer must be set in one trip.

Make = TIW

Type = IB R Hydro – Hanger **(complete assembly)**

= with LG Setting Collar and RPOB

OR EQUIVALENT

**Technical Specification of 7" Retainer packer and LTSA (LOWER TUBING SEAL ASSEMBLY)**

| Srl. No. | Basic Data Text (Detail Description of Material)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | <p><b><u>Packer, Retainer for 7", 26-29 PPF Csg</u></b></p> <p>Permanent / Retainer Production Packer similar to Baker Model 'D' Packer as per the following requirement:</p> <p>i) <b>DUTY CONDITION:</b> The Packer must meet the following duty conditions:</p> <p>a) Setting Depth: <b>5000 m (16404 ft.) approx.</b></p> <p>b) Casing Size and Weight Range: <b>177.80 mm (7 inch) OD x 38.7 - 43.1 kg/m (26-29 PPF)</b></p> <p>c) Service: <b>Sweet</b></p> <p>e) Max. Differential Pressure from Top and Below: <b>704 Kg/Sq.Cm. (10,000 PSI)</b></p> <p>f) Bottom Hole Temp. Range : <b>70 Deg.C -125 Deg.C (158 Deg.F - 257 Deg.F)</b></p> <p>ii) <b>FEATURES:</b> The Packer must have the following features:</p> <p>a) Seal bore extension will be required below the Retainer Packer for sealing of LTSA.</p> <p>b) Complete with release stud.</p> <p>c) Minimum I.D. / Bore: <b>82.5 mm (3.25")</b> Smooth and continuous.</p> <p>d) Construction: The body must be slim &amp; solid in construction for faster running in. It must have two opposed sets of full circle full - strength slips and one packing element for effective pack off when set. <b>Material : L-80</b></p> <p>e) Setting Method: The Packer must have both Wireline and tubing setting features. Please note that Baker E4 #20 pressure setting tool is available for wire line setting method. Therefore requisite adapter kit if required for setting the packer in conjunction with Baker tool must be supplied.</p> |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <p><b><u>Kit,Adptr,Pkr, 7", 26 - 29 ppf Csg</u></b></p> <p>Adapter kit for above Packer and setting tool to suit Baker E4# 20 pressure setting tool.</p> <p>NOTE: The bidder should confirm that adapter kit/setting kit quoted by them is compatible with the setting tool (wireline pressure setting tool ), model E4, size 20 of Baker make. The bidder should also provide detailed specifications along with list of components/parts for the adapter kit/setting kit and also provide detailed drawing &amp; catalogue with their offer.</p> |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3 | <p><b><u>LTSA,RNR PKR,7", 26 - 29 ppf Csg</u></b></p> <p>Locator Tubing Seal Assy., bonded type, to suit the Production Retainer Packer for <b>177.80 mm (7 inch) OD x 38.7 - 43.1 kg/m (26 - 29 PPF)</b> Casing, meeting the following requirements :</p> <p>a) Min.ID : <b>60.3 mm (2.375")</b> smooth &amp; continuous<br/> b) Top End : VAM TOP Box, <b>88.90 mm (3.5 inch)</b> OD, <b>6 TPI</b>,<br/> c) Bottom End : <b>Full Bore Mule Shoe</b><br/> d) Service : <b>Sweet</b><br/> e) Max. Differential Pressure from top and below : <b>704 kg/sq.cm (10,000 PSI)</b><br/> f) Bottom Hole Temp. Range : <b>70 Deg. C-125 Deg.C (158 Deg.F - 257 Deg.F)</b><br/> g) Material : <b>L-80</b>, type-I</p> |
| 4 | <p><b><u>Kit,Redress,LSA,Rnr Pkr, 7" Csg</u></b></p> <p>Redress Kit for above Locator Tubing Seal Assembly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

**SPECIFICATION OF STAND – OFF BAND & STOP COLLAR FOR 8½" HOLE SECTION**

| Sl. No. | ITEM             | Casing Size & ( Hole Size ) | MAKE & MODEL                                                       | Qty      |
|---------|------------------|-----------------------------|--------------------------------------------------------------------|----------|
| 1       | Stand – off Band | 7 inch &<br>( 8.1/2 inch )  | TOP – CO<br>Type 340<br>Casing Stand – off Band<br>Equivalent } OR | 420 Nos. |
| 2       | Stop – Collar    |                             | TOP – CO<br>Type 415<br>Liner Stop Collar<br>Equivalent } OR       | 420 Nos. |

**Specifications for ICD completion consumables**  
**(Only lower Open hole completion for 6" hole)**

| <b>Item No.</b> | <b><u>DESCRIPTION</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | <p align="center"><b><u>Down hole completion equipment:</u></b></p> <p><b>7" X 4." Hydraulic Hanger Packer with Nitrile/HNBR/Aflas Elements (26 - 29-ppf)</b></p> <ul style="list-style-type: none"> <li>• Packer qualified &amp; manufactured as per API 11D1.</li> <li>• Minimum through bore of 4.00"</li> <li>• 5,000-psi Differential Pressure Rating</li> <li>• 300 degF Temp Rating</li> <li>• Thread: as per bidder's design</li> <li>• The packer is able to set at up to 90 deg deviations and sets hydraulically without any rotation of tubing. Packer is retrievable with a retrieving tool without any rotation.</li> <li>• Packer is able to take minimum hang on weight, so that it can take weight of ICD completion to be lowered on the packer.</li> <li>• The service tool is rotationally locked to the packer to allow rotation of completion assembly in case it is required while RIH. Service Tool should release from the Packer via pressure without any rotation.</li> <li>• The Hydraulic Setting Tool for the Packer has Washdown feature to allow the open hole to be cleaned if needed, by pumping down the workstring into the washpipe and out through the washdown shoe, taking returns up the annulus, before the packer is set.</li> </ul> |
| 2               | <p><b>Uni-directional fluid loss flapper type valve</b></p> <ul style="list-style-type: none"> <li>• 4" X 2000 psi differential, L-80</li> <li>• Thread: as per bidders design.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3               | <p><b>4" INFLOW CONTROL DEVICE (ICD)</b></p> <ul style="list-style-type: none"> <li>• 4.00 in Base pipe, L-80</li> <li>• Length 38-39 ft.</li> <li>• Thread: as per bidder's design</li> <li>• Screen media to filter sand ranging from 50 microns to 600 microns.</li> <li>• The latest type of ICD is to be installed as per reservoir requirement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4               | <p><b>4" Blank pipe (30ft long)</b></p> <ul style="list-style-type: none"> <li>• 4", 11 ppf, L-80</li> <li>• Thread: as per bidders design</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 5               | <p><b>4" Blank pipe (10ft long)</b></p> <ul style="list-style-type: none"> <li>• 4", 11 ppf, L-80</li> <li>• Thread: as per bidders design</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 6               | <p><b>4" Swell packers</b></p> <ul style="list-style-type: none"> <li>• Oil swellable packer, Slip on / wrapped type suitable for 250 deg F</li> <li>• 10' length on 4" base pipe for 6" open hole.</li> <li>• Minimum 500 psi pressure seal.</li> <li>• Thread: as per bidders design</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 7               | <p><b>O-ring seal sub</b></p> <ul style="list-style-type: none"> <li>• 4" X 5' length</li> <li>• Thread: as per bidders design</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|   |                                                                                                                                                                                                                 |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8 | <b>4" Dual float valve shoe</b> <ul style="list-style-type: none"><li>• Wash Down shoe to prevent fluid flow back while allowing fluid flow thru the assembly</li><li>• Thread: as per bidders design</li></ul> |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



**Rental Tools**

| <b>Item No.</b> | <b><u>DESCRIPTION</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | <b><u>Rental package to run and set Hanger Packer+ wash pipe</u></b> <ul style="list-style-type: none"><li>○ All rental tools required for successful running in / setting / retrieval of the hanger packer and wash pipe including washpipe of approx. 500 mtrs, washpipe pup joints, stinger, crossovers, screen handling table and make up tools, false rotary table, swivel, slip assembly etc. to be provided by the service provider.</li></ul> |

Note: Completion for 6” Horizontal drain hole of 400 mtr is considered. The equipment is regular L-80.

**1. Liner Hanger with Packer for :**

- i) **(7 inch. / 29 PPF / BTC / N – 80) X (9.5/8 inch / 47 PPF) =1 ( One ) No.**

**It should be complete with but not limited to :**

All floating / Guiding accessory inclusive of Tie – Back Receptacle, Running Tool or Setting Tool, 5 inch. Drill Pipe Cementing Head / manifold with Cementing accessory for successful lowering of 7 inch. Liner / setting of hanger, cementing of liner and setting of Packer.

The Hanger and Packer must be set in one trip.

Make = TIWOR EQUIVALENT  
 Type = IB R Hydro – Hanger **(complete assembly)**  
 = with LG Setting Collar and RPOB

**2. Technical Specification of 7" Retainer packer and LTSA**

| Srl. No. | Basic Data Text (Detail Description of Material)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | <p><b><u>Packer, Retainer for 7", 26-29 PPF Csg</u></b></p> <p>Permanent / Retainer Production Packer similar to Baker Model 'D' Packer as per the following requirement:</p> <p>i) <b>DUTY CONDITION:</b> The Packer must meet the following duty conditions:</p> <p>a) Setting Depth: <b>5000 m (16404 ft.) approx.</b></p> <p>b) Casing Size and Weight Range: <b>177.80 mm (7 inch) OD x 38.7 - 43.1 kg/m (26-29 PPF)</b></p> <p>c) Service: <b>Sweet</b></p> <p>e) Max. Differential Pressure from Top and Below: <b>704 Kg/Sq.Cm. (10,000 PSI)</b></p> <p>f) Bottom Hole Tempr. Range : <b>70 Deg.C -125 Deg.C (158 Deg.F - 257 Deg.F)</b></p> <p>ii) <b>FEATURES:</b> The Packer must have the following features:</p> <p>a) Seal bore extension will be required below the Retainer Packer for sealing of LTSA.</p> <p>b) Complete with release stud.</p> <p>c) Minimum I.D. / Bore: <b>82.5 mm (3.25")</b> Smooth and continuous.</p> <p>d) Construction: The body must be slim &amp; solid in construction for faster running in. It must have two opposed sets of full circle full - strength slips and one packing element for effective pack off when set. <b>Material : L-80</b></p> <p>e) Setting Method: The Packer must have both Wireline and tubing setting features. Please note that Baker E4 #20 pressure setting tool is available for wire line setting method. Therefore requisite adapter kit if required for setting the packer in conjunction with Baker tool must be supplied.</p> |

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <p><b><u>Kit,Adptr,Pkr, 7", 26 - 29 ppf Csg</u></b></p> <p>Adapter kit for above Packer and setting tool to suit Baker E4# 20 pressure setting tool.</p> <p>NOTE: The bidder should confirm that adapter kit/setting kit quoted by them is compatible with the setting tool (wireline pressure setting tool ), model E4, size 20 of Baker make. The bidder should also provide detailed specifications along with list of components/parts for the adapter kit/setting kit and also provide detailed drawing &amp; catalogue with their offer.</p>                                                                                                                                                                 |
| 3 | <p><b><u>LTSA,RNR PKR,7", 26 - 29 ppf Csg</u></b></p> <p>Locator Tubing Seal Assy., bonded type, to suit the Production Retainer Packer for <b>177.80 mm (7 inch) OD x 38.7 - 43.1 kg/m (26 - 29 PPF)</b> Casing, meeting the following requirements :</p> <p>a) Min.ID : <b>60.3 mm (2.375")</b> smooth &amp; continuous</p> <p>b) Top End : VAM TOP Box, <b>88.90 mm (3.5 inch) OD, 6 TPI,</b></p> <p>c) Bottom End : <b>Full Bore Mule Shoe</b></p> <p>d) Service : <b>Sweet</b></p> <p>e) Max. Differential Pressure from top and below : <b>704 kg/sq.cm (10,000 PSI)</b></p> <p>f) Bottom Hole Temp. Range : <b>70 Deg. C-125 Deg.C (158 Deg.F - 257 Deg.F)</b></p> <p>g) Material : <b>L-80</b>, type-I</p> |
| 4 | <p><b><u>Kit,Redress,LSA,Rnr Pkr, 7" Csg</u></b></p> <p>Redress Kit for above Locator Tubing Seal Assembly.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**SPECIFICATION OF STAND – OFF BAND & STOP COLLAR FOR 8½" HOLE  
SECTION**

| <b>Sl.<br/>No.</b> | <b>ITEM</b>      | <b>Casing<br/>Size &amp;<br/>( Hole Size )</b> | <b>MAKE &amp; MODEL</b>                                            | <b>Qty</b> |
|--------------------|------------------|------------------------------------------------|--------------------------------------------------------------------|------------|
| 1                  | Stand – off Band | 7 inch<br>&<br>( 8.1/2 inch )                  | TOP – CO<br>Type 340<br>Casing Stand – off Band } OR<br>Equivalent | 420 Nos.   |
| 2                  | Stop – Collar    |                                                | TOP – CO<br>Type 415<br>Liner Stop Collar } OR<br>Equivalent       | 420 Nos.   |

**OFFSET WELL DATA****GEOSCIENTIFIC INFORMATION OF UPPER ASSAM BASIN:**

The Upper Assam Basin is truly a Tertiary sub-basin of the Assam-Arakan geological province located in the north-eastern part of Indian subcontinent. The Upper Assam basin had received clastic sediments in varied shallow marine to paralic and non-marine (deltaic, fluvial) environmental conditions in different geological times during Tertiary period. In the present day configuration of the basin, the basement dips both towards southeast and northwest on the southern and northern flanks of the basement ridge, respectively. The sedimentary thickness, which is less than 4 km along the axis of the basement ridge, increases to more than 7 km towards Naga-Patkai range and the Eastern Himalayan foothills region.

Commercial oil/gas accumulations discovered so far occurs mainly in the fault closures within a depth range of about 2200-3600 metres in Miocene and Oligocene reservoirs and 3400-5400 metres in the Paleocene/ Lower Eocene reservoirs. Presently, substantial amount of the oil is produced by the Company from these Paleocene/ Lower Eocene thin clastic reservoirs. The Paleocene Lower Eocene formations are over pressured while Oligocene and younger formation are nearly hydrostatic.

**EXPECTED FORMATION:**

| <b>FORMATION</b>                            | <b>AREAS/DEPTH(M)TVD</b> |                 |                  |               |                |                         |                 |
|---------------------------------------------|--------------------------|-----------------|------------------|---------------|----------------|-------------------------|-----------------|
|                                             | <b>BARIKURI</b>          | <b>BAGH-JAN</b> | <b>TENGAKHAT</b> | <b>CHABUA</b> | <b>HATIALI</b> | <b>NORTH CHANDMAR I</b> | <b>SHALMARI</b> |
| <b>GIRUJAN</b><br>(Clay/Subordin Sandstone) | Absent                   | Absent          | 1700             | 20            | 1820           | 20                      | 1703            |
| <b>TIPAM</b><br>(Sand stone/Shale)          | 2003                     | 2144            | 1780             | 1720          | 1850           | 2080                    | 2326            |
| <b>BARAIL</b><br>(Mud stone/Shale)          | 2664                     | 2401            | 2285             | 2165          | 2380           | 2650                    | 3096            |
| <b>KOPILI</b><br>(Splintery shale/Sand)     | 3293                     | 3178            | 2900             | 2820          | 2890           | 3320                    | 3668            |
| <b>PRANG</b><br>(Lime stone /Shale)         | 3530                     | 3541            | 3310             | 3250          | 3290           | 3560                    | 4244            |

|                                                  |      |      |      |      |      |      |      |
|--------------------------------------------------|------|------|------|------|------|------|------|
| <b>NARPUH</b><br>(Sand stone/Shale/ Silt stone)  | 3587 | 3632 | 3390 | 3320 | 3360 | 3620 | 4316 |
| <b>LK+Th</b><br>(Shale/Sand stone/ Whitish Clay) | 3720 | 3720 | 3460 | 3400 | 3440 | 3740 | 4386 |
| <b>LANGPAR</b><br>(Shale/Coal /Sand stone)       | 3878 | 3847 |      | 3520 | 3550 | 3910 | 4526 |
| <b>BASEMENT</b>                                  | 3943 | 3898 |      | 3600 | 3600 | 3950 | 4594 |

Note: Formation depths are tentative and may have difference of about +/- 100 m in actual or vary well to well.

### **SPECIAL NOTE ON BAREKURI - BAGHJAN FIELD:**

#### **BAREKURI FIELD**

The hydrocarbon prospects of the Barekuri field are confined to Paleocene/Lower Eocene and average depth of the reservoir is around 3740 m below MSL. So far, OIL has drilled nine wells in this structure of which 8 are oil producers and the current rate of production is approximately 1000 m<sup>3</sup>/day with very negligible water cut. Some more wells are planned to be drilled to develop/delineate the pay sands, few of them are horizontal. The initial reservoir pressure is 428.5 kg/cm<sup>2</sup> and the current reservoir pressure is around 428.0 kg/cm<sup>2</sup>.

#### **BAGHJAN FIELD**

The main multi-stacked hydrocarbon bearing horizons are confined to the Palaeocene / Lower Eocene sandstone reservoirs. So far, drilling has been completed in 12 wells in the Baghjan structure. The reservoir pressure was found to be around 422.6 Ksc which is 50 Ksc above hydrostatic. The depth to Basement in the Baghjan area is around 3910 m below MSL and average depth of the reservoir is around 3700 - 3800 m below MSL. The area has been covered by 3D seismic survey. Some more wells are planned to be drilled to delineate extremes of the pay sands which include few horizontal and J-bend/ directional wells.

## **MUD PROGRAM FOR OFFSET WELL**

### **TYPE-I: (Dikom, Kathaloni, Hatiali, Baghjan, Chabua etc.)**

| <b>DEPTH<br/>(M) TVD</b> | <b>HOLE<br/>SIZE</b> | <b>MUD WEIGHT &amp; TYPE</b>                                                                                                          | <b>MUD PARAMETERS</b>                                                                                                                                                                                                                                                                                                  |
|--------------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 150                      | 17½"                 | 66-68 lbs/cft water based bentonite mud                                                                                               | M.F Viscosity: 50-55 sec                                                                                                                                                                                                                                                                                               |
| 2000+                    | 12¼"                 | 66-69 lbs/cft fully dispersed water based bentonite mud treated with FCLS, CL, PAC, and CMC, emulsified with oil.                     | M.F viscosity: 50-55 sec App. Viscosity: 19-22 cp Plastic viscosity: 16-18 lbs/100 sq.ft. YP: 12-16lbs/100 sq.ft. Gel (0 Min): 3-8 lbs/100 sq.ft. Gel (15 Min): 23-35 lbs/100 sq.ft. API sand (%): 0.1 Solid (%) : 10-14 % API Fluid Los : 10-6 cc. Mud cake: 1-2 mm PH: 8.5-9.5 Lubricity co-efficient : 0.3-0.25     |
| 2000-4000                | 8½"                  | 72-80 lbs/cft semi dispersed water based bentonite mud treated with XC-Polymer, PAC, Resinex, Sulfonated Asphalt emulsified with oil. | M.F viscosity: 45-40 sec App. Viscosity: 30-18 cp Plastic viscosity: 10-20 lbs/100 sq.ft. YP: 26-15 lbs/100 sq.ft. Gel (0 Min): 2-6 lbs/100 sq.ft. Gel (15 Min): 16-30 lbs/100 sq.ft. API sand (%): 0.1 Solid (%) : 10-14 % API Fluid Los : 6-3.5 cc. Mud cake: 1-0.5 mm PH: 9.0-9.5 Lubricity co-efficient : 0.3-0.15 |

### **TYPE-II: Horizontal well (Makum, North Hapjan Area)**

| <b>DEPTH<br/>(M) TVD</b> | <b>HOLE<br/>SIZE</b> | <b>MUD WEIGHT &amp; TYPE</b>                                                                                 | <b>MUD PARAMETERS</b>                                                                                                                                                                                                                                   |
|--------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 150                      | 17½"                 | 66-68 lbs/cft water based bentonite mud                                                                      | M.F Viscosity: 50-55 sec                                                                                                                                                                                                                                |
| 150-1900                 | 12¼"                 | 66-68 lbs/cft lightly treated water based bentonite mud, treated with CMC (H), CMC (L), CFLS, Geltex-CP etc. | M.F Viscosity: 50-55 sec, App. Viscosity: 18-14 cp, Plastic viscosity: 13-8 lbs/100 sq.ft., YP: 15-10 lbs/100 sq. ft., Gel (0 Min): 10-8 lbs/100 sq.ft., Gel (15 Min): 25-35 lbs/100 sq.ft., API sand (%): 0.1 Solid (%) : 10-14 % API Fluid Los : 14-8 |

|           |     |                                                             |                                                                                                                                                                                                                                                                                                                     |
|-----------|-----|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           |     |                                                             | cc. Mud cake: 1-2 mm PH: 8.5-9.5                                                                                                                                                                                                                                                                                    |
| 1900-3000 | 8½" | 68-72 lbs/cft. Glycol-Amine PHPA mud                        | M.F viscosity: 50-46 sec App. Viscosity: 30-15 cp Plastic viscosity: 11-7 lbs/100 sq.ft. YP: 30-14 lbs/100 sq. ft. Gel (0 Min): 10-6 lbs/100 sq.ft. Gel (10 Min): 15-6 lbs/100 sq.ft. API sand (%): 0.1 Solid (%) : 2-5 % API Fluid Los : 10-6 cc. Mud cake: 1-1.5 mm PH: 8.5-9.0 Lubricity coefficient : 0.29-0.20 |
| 3000-3400 | 6"  | 64-66*lbs/cfts Carbo bridge mud (XCP-PGS-Calcium Carbonate) | M.F viscosity: 36-40 sec App. Viscosity: 10-14 cp Plastic viscosity: 5-10 lbs/100 sq.ft. YP: 14-35 lbs/100 sq. ft. Gel (0 Min): 7-11 lbs/100 sq.ft. Gel (10 Min): 6-10 lbs/100 sq.ft. API sand (%): 0.1 API Fluid Los : 7-4.0 cc. Mud cake: 1-0.5 mm PH: 8.5-9.0                                                    |

#### **MUD HYDRAULICS FOR 6", 8½" , 12¼" & 17½"HOLE**

| Type of bit | Size of hole | GPM (US) | Jet Velocity (ft/sec) | Annular Velocity (ft/min) OH vs. DC | Annular Velocity (ft/min) OH vs. DP |
|-------------|--------------|----------|-----------------------|-------------------------------------|-------------------------------------|
| TCR         | 6"           | 200-230  | 80-90                 | 110-120                             | 100-110                             |
| PDC         | 8½"          | 430-460  | 320-350               | 280-350                             | 200-240                             |
| TCR         | 8½"          | 310-350  | 325-440               | 240-280                             | 155-180                             |
| PDC         | 12¼"         | 550-700  | 320-400               | 190-240                             | 130-160                             |
| TCR         | 12¼"         | 500-600  | 290-350               | 170-205                             | 120-140                             |
| TCR         | 17½"         | 550-620  | 200-250               | 70-80                               | 50-60                               |

#### **BIT DATA FOR 6", 8½", 12¼" & 17½ HOLE**

#### **BIT DATA FOR 17.1/2 INCH HOLE:**

| Depth (M) | Bit size(inch) | Bit details                    | ROP (M/Hr.) | Average Meterage/bit |
|-----------|----------------|--------------------------------|-------------|----------------------|
| 200-800   | 17.1/2         | TCR (IADC:1-1-1, 1-2-1)        | 25-35       | 600m+                |
| 800-1600  | 17.1/2         | TCR (IADC,1-1-1, 1-2-1, 1-2-4) | 15-25       | 400m+                |

#### **BIT DATA FOR 8½" & 12¼" HOLE**



| Depth (M) | Bit size(inch) | Bit details             | ROP (M/Hr.) | Average Meterage/bit |
|-----------|----------------|-------------------------|-------------|----------------------|
| 1800-3800 | 8½"            | PDC (IADC,M-332)        | 11-12       | 2000+                |
| 1800-3900 | 12¼"           | TCR (IADC,1-2-7, 1-3-7) | 5-7         | 350+                 |
| 1800-3900 | 12¼"           | PDC IADC,M324           | 6-8         | 2000+                |
| 3900-4600 | 8½"            | PDC (IADC,M-332)        | 4-5         | 2000+                |
| 3900-4600 | 8½"            | TCR (IADC,4-3-7, 1-3-7) | 3-4         | 150+                 |

**BIT DATA FOR 6 inch HOLE (Horizontal):**

| Depth (M)   | Bit size | Bit details            | ROP (M/Hr.) | Average Meterage/bit |
|-------------|----------|------------------------|-------------|----------------------|
| 3300 - 3700 | 6 inch   | TCR (IADC1-3-7, 4-3-7) | 8 - 10      | 300+                 |

**NOTE:** The above Bit-data are tentative/approximate average value and just for guidelines only.

**&&&&**

**BIO-DATA AND EXPERIENCE OF PERSONNEL****Format for CV of MWD Engineer and Directional Driller**

Name:

Educational Qualification:

Certifications:

**Experience in last five years**

| <b>Year</b> | <b>From Date</b> | <b>To Date</b> | <b>Name of Organization</b> | <b>Client/ Project</b> | <b>No. of days worked</b> | <b>No. of wells drilled</b> | <b>Type of wells drilled</b> | <b>Worked as</b> |
|-------------|------------------|----------------|-----------------------------|------------------------|---------------------------|-----------------------------|------------------------------|------------------|
|             |                  |                |                             |                        |                           |                             |                              |                  |
|             |                  |                |                             |                        |                           |                             |                              |                  |
|             |                  |                |                             |                        |                           |                             |                              |                  |
|             |                  |                |                             |                        |                           |                             |                              |                  |

**Format for Other personnel**

- 1 CATEGORY OF JOB / POST :
- 2 NAME OF INCUMBENT :
- 3 PRESENT ADDRESS :
- 4 HOME ADDRESS :
- 5 NATIONALITY :
- 6 DATE OF BIRTH :
- 7 ACADEMIC QUALIFICATION :
- 8 TECHNICAL QUALIFICATION :
- 9 TOTAL EXPERIENCE IN THE RELATED FIELDS (IN YEARS) :
- 10 JOB EXPERIENCE RESUME :

| SL NO | WORK EXPERIENCE |    | TYPES OF JOB CARRIED OUT | NAME OF COMPANY | PLACE OF WORK |
|-------|-----------------|----|--------------------------|-----------------|---------------|
|       | FROM            | TO |                          |                 |               |
|       |                 |    |                          |                 |               |

NOTE: TO ATTACH ALL SUPPLEMENTARY DOCUMENTS.

**SIGNATURE OF THE BIDDER**

**ANNEXURE - CC**

**DETAILS OF CONTRACTS EXECUTED BY THE BIDDER FOR DRILLING  
HORIZONTAL / HIGH - TECH WELLS**

| <b>Sr.<br/>No.</b> | <b>Client<br/>Contact<br/>Details</b> | <b>Contract<br/>No. &amp;<br/>Date</b> | <b>Duration<br/>of<br/>Contract</b> | <b>Scope of work</b> | <b>Documents<br/>Provided in Bid<br/>(*)</b> |
|--------------------|---------------------------------------|----------------------------------------|-------------------------------------|----------------------|----------------------------------------------|
|                    |                                       |                                        |                                     |                      |                                              |
|                    |                                       |                                        |                                     |                      |                                              |
|                    |                                       |                                        |                                     |                      |                                              |
|                    |                                       |                                        |                                     |                      |                                              |

**(\*) Bidder should submit copy of relevant portion of the Contract containing "Client Name, Contractor Name, Contract No. & date, scope of work etc. along with performance certificates.**

**Authorised Person's Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Seal of the Bidder:**

**Details in support of Bidder's experience in providing MWD-SDMM-Gamma-Well Planning combination services**

| Well Name | Type of well | Date of Completion | Location | Client Name | Client Contact Details | End Depth (M) | Horizontal Dis-<br>placement | Services Offered | Support Document Provided in Bid          |                         |                 |                              |                            |         |                |                                              |
|-----------|--------------|--------------------|----------|-------------|------------------------|---------------|------------------------------|------------------|-------------------------------------------|-------------------------|-----------------|------------------------------|----------------------------|---------|----------------|----------------------------------------------|
|           |              |                    |          |             |                        |               |                              |                  | Pre Drilling - Well<br>planning documents |                         |                 |                              | Post Drilling<br>Documents |         |                | Authentication                               |
|           |              |                    |          |             |                        |               |                              |                  | Well Plans                                | Directional<br>Proposal | BHA<br>Analysis | Torque<br>& Drag<br>Analysis | Well Plots                 | Surveys | BHA<br>diagram | Client<br>Certificate<br>with Well<br>Number |
| 1         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
| 2         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
| 3         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
| 4         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
| 5         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
| 6         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
| 7         |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |
|           |              |                    |          |             |                        |               |                              |                  |                                           |                         |                 |                              |                            |         |                |                                              |

**Authorised Person's Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Seal of the Bidder:**

**ANNEXURE-EE**

| Ref. No In Price Format | Name of Consumable | Quantity | Unit | Rate ( USD ) | Total (USD) | Freight & Insurance | CIF Value | Landed Cost at Duliajan |
|-------------------------|--------------------|----------|------|--------------|-------------|---------------------|-----------|-------------------------|
|                         |                    |          |      |              |             |                     |           |                         |
|                         |                    |          |      |              |             |                     |           |                         |
|                         |                    |          |      |              |             | Signature of Bidder |           |                         |

**PROFORMA – A**

**LIST OF ITEMS (EQUIPMENT, TOOLS, ACCESSORIES, SPARES & CONSUMABLE)**  
**TO BE IMPORTED IN CONNECTION WITH EXECUTION OF THE CONTRACT**  
**SHOWING CIF VALUE.**

| Srl. No. | Item Description | Qty / Unit | Rate | Total            | Freight & Insurance | CIF Value   | Port & other charge | Landed Cost | Is it re-exportable?<br>YES or NO | Year of Mfg. | HSN Code |
|----------|------------------|------------|------|------------------|---------------------|-------------|---------------------|-------------|-----------------------------------|--------------|----------|
| A        | B                | C          | D    | $E = C \times D$ | F                   | $G = F + E$ | H                   | $I = G + H$ | J                                 | K            | L        |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |
|          |                  |            |      |                  |                     |             |                     |             |                                   |              |          |

(1) The items which are not of consumable in nature and required to be re-exported outside India after completion of the Contract should be indicated as "YES" in column "J".

(2) The items which are of consumable in nature should be indicated as "NO" in column "J".

(3) For estimation of applicable customs duty, the bidders are required to indicate customs tariff code (i.e. HSN Code) of each item in column "L".

**Authorised Person's Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Seal of the Bidder:**

**PRICE BID FORMAT**

| DESCRIPTION    |                                                                         | UNIT | Quantity | Rate<br>Currency | Total<br>Currency |
|----------------|-------------------------------------------------------------------------|------|----------|------------------|-------------------|
| <b>Sl. No.</b> | <b>Mobilization charges of tools and equipments: (A)</b>                |      |          |                  |                   |
| 1              | LWD Surface Unit                                                        | NO   | 6        |                  |                   |
| 2              | 12 1/4" Directional, GR, Resistivity (Induction Type)                   | NO   | 6        |                  |                   |
| 3              | 12 1/4" Jars and cross overs                                            | NO   | 6        |                  |                   |
| 4              | 12 1/4" Rotary Steerable System.                                        | NO   | 6        |                  |                   |
| 5              | 12 1/4" steerable Down hole motors along with stablisers & accessories. | NO   | 6        |                  |                   |
| 6              | 8 1/2" Directional, GR, Resistivity (Induction Type)                    | NO   | 6        |                  |                   |
| 7              | 8 1/2" Neutron, azimuthal Density with imaging and caliper              | NO   | 6        |                  |                   |
| 8              | 8 1/2" Annulus Pressure and Annulus Temperature While Drilling          | NO   | 6        |                  |                   |
| 9              | 8 1/2" jars and cross overs                                             | NO   | 6        |                  |                   |
| 10             | 8 1/2" Rotary Steerable System.                                         | NO   | 6        |                  |                   |
| 11             | 8 1/2" steerable Down hole motors along with stablisers & accessories.  | NO   | 6        |                  |                   |
| 12             | LWD Surface Unit (Split Set)                                            | NO   | 6        |                  |                   |
| <b>S. No.</b>  | <b>De Mobilization charges of tools and equipments: (B)</b>             |      |          |                  |                   |
| 1              | LWD Surface Unit                                                        | NO   | 6        |                  |                   |
| 2              | 12 1/4" Directional, GR, Resistivity (Induction Type)                   | NO   | 6        |                  |                   |
| 3              | 12 1/4" Jars and cross overs                                            | NO   | 6        |                  |                   |
| 4              | 12 1/4" Rotary Steerable System.                                        | NO   | 6        |                  |                   |
| 5              | 12 1/4" steerable Down hole motors along with stablisers & accessories. | NO   | 6        |                  |                   |
| 6              | 8 1/2" Directional, GR, Resistivity (Induction Type)                    | NO   | 6        |                  |                   |
| 7              | 8 1/2" Neutron, azimuthal Density with imaging and caliper              | NO   | 6        |                  |                   |
| 8              | 8 1/2" Annulus Pressure and Annulus Temperature While Drilling          | NO   | 6        |                  |                   |
| 9              | 8 1/2" jars and cross overs                                             | NO   | 6        |                  |                   |
| 10             | 8 1/2" Rotary Steerable System.                                         | NO   | 6        |                  |                   |
| 11             | 8 1/2" steerable Down hole motors along with stablisers & accessories.  | NO   | 6        |                  |                   |
| 12             | LWD Surface Unit (Split Set)                                            | NO   | 6        |                  |                   |
| <b>S. No.</b>  | <b>Operating Charges Tools / Equipment : (C)</b>                        |      |          |                  |                   |
| 1              | LWD Surface Unit                                                        | DAY  | 408      |                  |                   |
| 2              | 12 1/4" Directional, GR, Resistivity (Induction Type)                   | DAY  | 408      |                  |                   |
| 3              | 12 1/4" Jars and cross overs                                            | DAY  | 408      |                  |                   |

|                                                                                             |                                                                         |            |          |  |  |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------|----------|--|--|
| 4                                                                                           | 12 1/4" Rotary Steerable System.                                        | DAY        | 408      |  |  |
| 5                                                                                           | 12 1/4" steerable Down hole motors along with stablisers & accessories. | DAY        | 200      |  |  |
| 6                                                                                           | 8 1/2" Directional, GR, Resistivity (Induction Type)                    | DAY        | 238      |  |  |
| 7                                                                                           | 8 1/2" Neutron, azimuthal Density with imaging and caliper              | DAY        | 238      |  |  |
| 8                                                                                           | 8 1/2" Annulus Pressure and Annulus Temperature While Drilling          | DAY        | 238      |  |  |
| 9                                                                                           | 8 1/2" jars and cross overs                                             | DAY        | 238      |  |  |
| 10                                                                                          | 8 1/2" Rotary Steerable System.                                         | DAY        | 238      |  |  |
| 11                                                                                          | 8 1/2" steerable Down hole motors along with stablisers & accessories.  | DAY        | 200      |  |  |
| 12                                                                                          | LWD Surface Unit (Split Set)                                            | DAY        | 238      |  |  |
| <b>S. No.</b>                                                                               | <b>Rental Charges Tools / Equipment : (D)</b>                           |            |          |  |  |
| 1                                                                                           | LWD Surface Unit                                                        | DAY        | 687      |  |  |
| 2                                                                                           | 12 1/4" Directional, GR, Resistivity (Induction Type)                   | DAY        | 687      |  |  |
| 3                                                                                           | 12 1/4" Jars and cross overs                                            | DAY        | 687      |  |  |
| 4                                                                                           | 12 1/4" Rotary Steerable System.                                        | DAY        | 687      |  |  |
| 5                                                                                           | 12 1/4" steerable Down hole motors along with stablisers & accessories. | DAY        | 895      |  |  |
| 6                                                                                           | 8 1/2" Directional, GR, Resistivity (Induction Type)                    | DAY        | 857      |  |  |
| 7                                                                                           | 8 1/2" Neutron, azimuthal Density with imaging and caliper              | DAY        | 857      |  |  |
| 8                                                                                           | 8 1/2" Annulus Pressure and Annulus Temperature While Drilling          | DAY        | 857      |  |  |
| 9                                                                                           | 8 1/2" jars and cross overs                                             | DAY        | 857      |  |  |
| 10                                                                                          | 8 1/2" Rotary Steerable System.                                         | DAY        | 857      |  |  |
| 11                                                                                          | 8 1/2" steerable Down hole motors along with stablisers & accessories.  | DAY        | 895      |  |  |
| 12                                                                                          | LWD Surface Unit (Split Set)                                            | DAY        | 857      |  |  |
| <b>Total Cost of call out items and services (From ProformaB-1 : (E)</b>                    |                                                                         | <b>LSM</b> | <b>1</b> |  |  |
| <b>Total Cost of other call out items i.e. Window mill, Gyro (From Proforma B-2) : ( F)</b> |                                                                         | <b>LSM</b> | <b>1</b> |  |  |
| <b>TOTAL COST OF THE CONTRACT FOR 3 YEARS, T = A + B + C + D + E + F</b>                    |                                                                         |            |          |  |  |



**Cost of Optional Items, Call out services and Consumables for One Horizontal Well**

| S. No.                                          | DESCRIPTION                                                           | Unit | Quantity | Rates<br>Currency | Currency |
|-------------------------------------------------|-----------------------------------------------------------------------|------|----------|-------------------|----------|
| <b>Mobilization Charges of Tools\Equipments</b> |                                                                       |      |          |                   |          |
| 1                                               | 7" Liner Hanger Setting Tool                                          | NO   | 1.00     |                   |          |
| 2                                               | ICD Hanger Packer and Wash Pipe Setting tool                          | NO   | 1.00     |                   |          |
| 3                                               | 6" Directional, GR, Resistivity (Induction type)                      | NO   | 1.00     |                   |          |
| 4                                               | 6" Neutron, Azimuthal Density with Imaging Calliper                   | NO   | 1.00     |                   |          |
| 5                                               | 6" Annulus Pressure and Temperature While Drilling                    | NO   | 1.00     |                   |          |
| 6                                               | 6" Directional Bed Boundary Imaging                                   | NO   | 1.00     |                   |          |
| 7                                               | 6" Jar & Cross Overs                                                  | NO   | 1.00     |                   |          |
| 8                                               | 6" Rotary Streeable Drilling System (Standard)                        | NO   | 1.00     |                   |          |
| 9                                               | 6" Steerable Down hole Mud Motors along with stabiliser & accessories | NO   | 1.00     |                   |          |

**De-Mobilization Charges of Tools & Equipments**

|   |                                                                       |    |      |  |  |
|---|-----------------------------------------------------------------------|----|------|--|--|
| 1 | 7" Liner Hanger Setting Tool                                          | NO | 1.00 |  |  |
| 2 | ICD Hanger Packer and Wash Pipe Setting tool                          | NO | 1.00 |  |  |
| 3 | 6" Directional, GR, Resistivity (Induction type)                      | NO | 1.00 |  |  |
| 4 | 6" Neutron, Azimuthal Density with Imaging Calliper                   | NO | 1.00 |  |  |
| 5 | 6" Annulus Pressure and Temperature While Drilling                    | NO | 1.00 |  |  |
| 6 | 6" Directional Bed Boundary Imaging                                   | NO | 1.00 |  |  |
| 7 | 6" Jar & Cross Overs                                                  | NO | 1.00 |  |  |
| 8 | 6" Rotary Streeable Drilling System (Standard)                        | NO | 1.00 |  |  |
| 9 | 6" Steerable Down hole Mud Motors along with stabiliser & accessories | NO | 1.00 |  |  |

**Operating Charges (Tools / Equipment including manpower charges)**

|                                         |                                                                       |     |       |  |  |
|-----------------------------------------|-----------------------------------------------------------------------|-----|-------|--|--|
| 1                                       | 7" Liner Hanger Setting Tool                                          | DAY | 4.00  |  |  |
| 2                                       | ICD Hanger Packer and Wash Pipe Setting tool                          | DAY | 4.00  |  |  |
| 3                                       | 6" Directional, GR, Resistivity (Induction type)                      | DAY | 6.00  |  |  |
| 4                                       | 6" Neutron, Azimuthal Density with Imaging Calliper                   | DAY | 6.00  |  |  |
| 5                                       | 6" Annulus Pressure and Temperature While Drilling                    | DAY | 6.00  |  |  |
| 6                                       | 6" Directional Bed Boundary Imaging                                   | DAY | 6.00  |  |  |
| 7                                       | 6" Jar & Cross Overs                                                  | DAY | 6.00  |  |  |
| 8                                       | 6" Rotary Streeable Drilling System (Standard)                        | DAY | 6.00  |  |  |
| 9                                       | 6" Steerable Down hole Mud Motors along with stabiliser & accessories | DAY | 10.00 |  |  |
| 12                                      | Well Completion including services of Fluid Engineer                  | DAY | 12.00 |  |  |
| <b>Rental Charges Tools / Equipment</b> |                                                                       |     |       |  |  |
| 1                                       | 6" Directional, GR, Resistivity (Induction type)                      | DAY | 10.00 |  |  |
| 2                                       | 6" Neutron, Azimuthal Density with Imaging Calliper                   | DAY | 10.00 |  |  |
| 3                                       | 6" Annulus Pressure and Temperature While Drilling                    | DAY | 10.00 |  |  |
| 4                                       | 6" Directional Bed Boundary Imaging                                   | DAY | 10.00 |  |  |
| 5                                       | 6" Jar & Cross Overs                                                  | DAY | 10.00 |  |  |
| 6                                       | 6" Rotary Streeable Drilling System (Standard)                        | DAY | 10.00 |  |  |
| 7                                       | 6" Steerable Down hole Mud Motors along with stabiliser & accessories | DAY | 10.00 |  |  |
| 8                                       | 7" Liner Hanger Setting Tool                                          | DAY | 91.50 |  |  |
| 9                                       | ICD Hanger Packer and Wash Pipe Setting tool                          | DAY | 91.50 |  |  |
| <b>Consumables</b>                      |                                                                       |     |       |  |  |
| 1                                       | Stand-Off Band 7 Stop Collar for 7" Liner (Combined Set)              | NO  | 70.00 |  |  |
| 2                                       | 7" Liner hanger with Packer                                           | NO  | 1.00  |  |  |
| 3                                       | Sand Control Hanger Packer (7"X4")                                    | NO  | 1.00  |  |  |
| 4                                       | Knock out Isolation Flapper type Valve                                | NO  | 1.00  |  |  |

|                                                  |                                                       |    |       |  |  |
|--------------------------------------------------|-------------------------------------------------------|----|-------|--|--|
| 5                                                | 4" ICD (39 Ft)                                        | NO | 20.00 |  |  |
| 6                                                | 4" Blank Pipe (30 Ft)                                 | NO | 16.00 |  |  |
| 7                                                | 4" Blank Pipe (10 Ft)                                 | NO | 20.00 |  |  |
| 8                                                | Swell Packer                                          | NO | 12.00 |  |  |
| 9                                                | O-Ring Seal Sub                                       | NO | 1.00  |  |  |
| 10                                               | 4" GPV shoe (Dual Float valve Shoe)                   | NO | 1.00  |  |  |
| 11                                               | Packer 2 7/8" Tubing X 7" casing                      | NO | 1.00  |  |  |
| 12                                               | Artificial Lift system (2 7/8" G/L Valve with mandel) | NO | 13.00 |  |  |
| <b>Total Cost of call out items and services</b> |                                                       |    |       |  |  |

**PROFORMA B-2**
**CHARGES FOR OTHER CALL OUT SERVICES**

| S. No.                                    | CALL OUT CHARGES FOR WINDOW MILL & GYRO(Mobilisation & demobilisation charges of tools & equipments including manpower | UNIT | Quantity | Rates    | Total    |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------|----------|----------|----------|
|                                           |                                                                                                                        |      |          | Currency | Currency |
| 1                                         | 9. 5/8" window milling and running tool, gauge run assy & scrapper                                                     | NO   | 2.00     |          |          |
| 2                                         | 7" window milling and running tool, gauge run assy & scrapper                                                          | NO   | 2.00     |          |          |
| 3                                         | North Seeking GYRO with manpower                                                                                       | NO   | 4.00     |          |          |
| <b>S. No.</b>                             | <b>RE-DRESS CHARGES FOR MILL AND RUNNING TOOL</b>                                                                      |      |          |          |          |
| 1                                         | 9. 5/8" window milling and running tool assy.                                                                          | NO   | 2.00     |          |          |
| 2                                         | 9. 5/8" gauge run assembly.                                                                                            | NO   | 2.00     |          |          |
| 3                                         | 9. 5/8" scrapper                                                                                                       | NO   | 2.00     |          |          |
| 4                                         | 7" window milling and running tool assy.                                                                               | NO   | 2.00     |          |          |
| 5                                         | 7" gauge run assembly.                                                                                                 | NO   | 2.00     |          |          |
| 6                                         | 7" scrapper                                                                                                            | NO   | 2.00     |          |          |
| <b>S. No.</b>                             | <b>Operating Charges for call out Tools / Equipment</b>                                                                |      |          |          |          |
| 1                                         | North Seeking GYRO with manpower                                                                                       | DAY  | 8.00     |          |          |
| <b>S. No.</b>                             | <b>Operating Charges for call out Personnel</b>                                                                        |      |          |          |          |
| 1                                         | Whipstock Engineer                                                                                                     | DAY  | 30.00    |          |          |
| <b>S. No.</b>                             | <b>Rental Charges for call out Tools / Equipment</b>                                                                   |      |          |          |          |
| 1                                         | 9. 5/8" window milling and running tool, gauge run assy & scrapper                                                     | DAY  | 20.00    |          |          |
| 2                                         | 7" window milling and running tool, gauge run assy & scrapper                                                          | DAY  | 20.00    |          |          |
| 3                                         | North Seeking GYRO                                                                                                     | DAY  | 20.00    |          |          |
| 4                                         | Whipstock Engineer                                                                                                     | DAY  | 10.00    |          |          |
| 5                                         | Survey Engineer                                                                                                        | DAY  | 12.00    |          |          |
| <b>Total Cost of other call out items</b> |                                                                                                                        |      |          |          |          |

**PROFORMA - C**

**BIDFORM**

To  
M/s. Oil India Limited,  
**For Head (Contracts)**  
P.O. Duliajan, Assam, India

Sub: Tender No. : \_\_\_\_\_

*Gentlemen,*

Having examined the General and Special Conditions of Contract and the Terms of Reference including all attachments thereto, the receipt of which is hereby duly acknowledged, we the undersigned offer to perform the services in conformity with the said conditions of Contract and Terms of Reference (excluding the exception & Deviations, if any) for the sum of \_\_\_\_\_ (Total Bid Amount in words and figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to commence the work within ( ) days calculated from the date of award of Contract.

If our Bid is accepted, we will obtain the guarantee of a bank in a sum not exceeding \_\_\_\_\_ for the due performance of the Contract.

We agree to abide by this Bid for a period of 180 days from the date fixed for Bid closing and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof in your notification of award shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2015.

-----  
Signature

\_\_\_\_\_  
(In the capacity of)

**STATEMENT OF NON-COMPLIANCE**

**(Only exceptions/deviations to be rendered)**

1.0 The Bidder shall furnish detailed statement of **exceptions/deviations**, if any, to the tender stipulations, terms and conditions in respect of each Section of Bid Document in the following format:

| <b>Section No.</b> | <b>Clause No. (Page No.)</b> | <b>Non-Compliance</b> | <b>Remarks</b> |
|--------------------|------------------------------|-----------------------|----------------|
|                    |                              |                       |                |

2.0 In addition to the above the Bidder shall furnish detailed information pertaining to construction, operational requirements, velocity-pattern, added technical features, if any and limitations etc. of the Inspection Tool proposed to be deployed.

**Authorised Person's Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

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

**Seal of the Bidder:**

**NOTE:** OIL INDIA LIMITED expects the bidders to fully accept the terms and conditions of the bid document. However, should the bidders still envisage some exceptions/deviations to the terms and conditions of the bid document, the same should be indicated as per above format and submit along with their bids. If the "**Statement of Compliance**" in the above Proforma is left blank (or not submitted along with the technical bid), then it would be construed that the bidder has not taken any exception/deviation to the tender requirements.

**Signature of the bidder**

-----

**FORM OF BID SECURITY (BANK GUARANTEE)**

To: M/s. OIL INDIA LIMITED,  
For Head (Contracts), Duliajan, Assam, India, Pin - 786 602.

WHEREAS, (Name of Bidder) \_\_\_\_\_ (hereinafter called "the Bidder") has submitted their offer Dated \_\_\_\_\_ for the provision of certain oilfield services (hereinafter called "the Bid") against OIL INDIA LIMITED, Duliajan, Assam, India (hereinafter called the Company)'s tender No.: \_\_\_\_\_. KNOW ALL MEN BY these presents that we (Name of Bank) \_\_\_\_\_ of (Name of Country) \_\_\_\_\_ having our registered office at \_\_\_\_\_ (hereinafter called "Bank") are bound unto the Company in the sum of ( \* ) for which payment well and truly to be made to Company, the Bank binds itself, its successors and assignees by these presents. SEALED with the common seal of the said Bank this \_\_\_\_\_ day of \_\_\_\_\_ 2012.

THE CONDITIONS of these obligations are:

- (1) If the Bidder withdraws / modifies their Bid during the period of Bid validity specified by the Bidder; or
- (2) If the Bidder, having been notified of acceptance of their Bid by the Company during the period of Bid validity:
  - (a) Fails or refuses to execute the form of Contract in accordance with the Instructions to Bidders; or
  - (b) Fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

We undertake to pay to Company up to the above amount upon receipt of its first written demand (by way of letter/fax/cable), without Company having to substantiate its demand provided that in its demand Company will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including the date ( \*\* ) and any demand in respect thereof should reach the Bank not later than the above date.

SIGNATURE AND SEAL OF THE GUARANTORS \_\_\_\_\_

Name of Bank & Address \_\_\_\_\_

Date: ..... Place \_\_\_\_\_

\* The Bidder should insert the amount of the guarantee in words and figures.

\*\* Date of expiry of Bank Guarantee should be minimum 30 days after the end of the validity period of the Bid.

**FORM OF PERFORMANCE BANK GUARANTEE**

To: M/s OIL INDIA LIMITED,  
For HEAD (Contracts),  
Duliajan, Assam, India, Pin - 786 602.

WHEREAS \_\_\_\_\_(Name and address of Contractor) (hereinafter called "Contractor") had undertaken, in pursuance of Contract No. \_\_\_\_\_ to execute (Name of Contract and Brief Description of the Work) \_\_\_\_\_ (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said contract that the Contractor shall furnish you with a Bank Guarantee as security for compliance with Contractor's obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee; NOW THEREFORE we hereby affirm that we are Guarantors on behalf of the Contractor, up to a total of (Amount of Guarantee in figures) \_\_\_\_\_ in words) \_\_\_\_\_), such amount being payable in the types and proportions of currencies in which the Contract price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of guarantee sum as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein. We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or the work to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way cease us from any liability under this guarantee, and we hereby waive notice of such change, addition or modification.

This guarantee is valid until the date \_\_\_\_\_ (calculated at 15 months after Contract completion date).

SIGNATURE AND SEAL OF THE GUARANTORS \_\_\_\_\_

Designation \_\_\_\_\_

Name of Bank \_\_\_\_\_

Address \_\_\_\_\_

Date ..... Place \_\_\_\_\_



**CONTRACT FORM**

This Contract is made on \_\_\_\_\_ day of \_\_\_\_\_ between Oil India Limited, a Government of India Enterprise, incorporated under the Companies Act 1956, having its registered office at Duliajan in the State of Assam, hereinafter called the "Company" which expression unless repugnant to the context shall include executors, administrators and assignees on the one part, and M/s. \_\_\_\_\_ (Name and address of Contractor), hereinafter called the "Contractor" which expression unless repugnant to the context shall include executors, administrators and assignees on the other part.

WHEREAS the Company desires that Services \_\_\_\_\_ (brief description of services) should be provided by the Contractor as detailed hereinafter or as Company may requires.

WHEREAS, Contractor engaged themselves in the business of offering such services represents that they have adequate resources and equipment, material etc. in good working order and fully trained personnel capable of efficiently undertaking the operations and is ready, willing and able to carry out the said services for the Company as per Section- II attached herewith for this purpose.

WHEREAS, Company issued a firm Letter of Award No. \_\_\_\_\_ based on Offer No. \_\_\_\_\_ submitted by the Contractor against Company's Tender No. \_\_\_\_\_.

WHEREAS Contractor has accepted Company's Letter of Award vide their letter no. \_\_\_\_\_.

All these aforesaid documents shall be deemed to form and be read and construed as part of this Contract. However, should there be any dispute arising out of interpretation of this contract in regard to the terms and conditions with those mentioned in Company's tender document and subsequent letters including the Letter of Award and Contractor's offer and their subsequent letters, the terms and conditions attached hereto shall prevail. Changes, additions or deletions to the terms of the contract shall be authorised solely by an amendment to the contract executed in the same manner as this contract.

NOW WHEREAS, in consideration of the mutual covenants and agreements hereinafter contained, it is hereby agreed as follows -

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract referred to.
2. In addition to documents hereinabove, the following Sections and Annexures attached herewith shall be deemed to form and be read and construed as part of this agreement viz.:

- (a) Section-I indicating the General Conditions of Contract,

- (b) Section-II indicating the Terms of Reference/Technical Specifications,
- (c) Section-III indicating the Schedule of rates and
- (d) Section-IV indicating the Special Conditions of Contract.

3. In consideration of the payments to be made by the Company to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Company to provide the Services and to remedy defects therein in conformity in all respect with the provisions of this Contract.

4. The Company hereby covenants to pay the Contractor in consideration of the provision of the Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

IN WITNESS thereof, each party has executed this contract at Duliajan, Assam as of the date shown above.

Signed, Sealed and Delivered,

For and on behalf of  
Company (Oil India Limited)

Name:

Status:

In presence of

1.

2.

For and on behalf of  
Contractor (M/s. \_\_\_\_\_)

Name:

Status:

In presence of

1.

2.

**PROFORMA LETTER OF AUTHORITY**

TO

HEAD (CONTRACTS)  
Oil India Ltd.,  
P.O. Duliajan - 786 602  
Assam, India

Sir,

Sub: OIL's IFB No. CDGxxxxP16

We \_\_\_\_\_ confirm that Mr. \_\_\_\_\_ (Name and address) as authorised to represent us to Bid, negotiate and conclude the agreement on our behalf with you against Tender Invitation No. \_\_\_\_\_ for hiring of services for \_\_\_\_\_.

We confirm that we shall be bound by all and whatsoever our said representative shall commit.

Yours Faithfully,

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

Name & Designation: \_\_\_\_\_

For & on behalf of: \_\_\_\_\_

Note: This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person competent and having the power of attorney (power of attorney shall be annexed) to bind such Bidder. If signed by a consortium, it shall be signed by members of the consortium.

**AUTHORISATION FOR ATTENDING BID OPENING**

TO  
**HEAD (CONTRACTS)**  
Oil India Ltd.,  
P.O. Duliajan - 786 602  
Assam, India

Date : \_\_\_\_\_

Sir,

**Sub : OIL's IFB No. CDG7752P16**

We authorise Mr. /Mrs. \_\_\_\_\_ (Name and address) to be present at the time of opening of the above IFB due on \_\_\_\_\_ at Duliajan on our behalf.

Yours Faithfully,

**Authorised Person's Signature:** \_\_\_\_\_

**Name:** \_\_\_\_\_

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

**Seal of the Bidder:**

**Note:** This letter of authority shall be on printed letter head of the Bidder and shall be signed by a person who signs the bid.

**PARENT COMPANY GUARANTEE**  
**DEED OF GUARANTEE**

This DEED OF GUARANTEE executed at \_\_\_\_\_ this \_\_\_\_\_ Day of \_\_\_\_\_ by M/s \_\_\_\_\_, a Company organized and existing under the laws of \_\_\_\_\_ having a principal business office at \_\_\_\_\_ hereinafter referred to as "Guarantor" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns..

**WHEREAS**

M/s OIL INDIA LIMITED (OIL), a Govt. Of India "Navaratna" category Enterprise and premier Oil Company engaged in Exploration, production and transportation of Crude oil & Natural gas having its Headquarters at Duliajan-786602, Dist. Dibrugarh, Assam hereinafter referred to as "Company" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and assigns, floated e-Tender No. CDG5197P12 inviting offers from Vendors for Hiring of Services including Tools/Equipment / Consumables for Design, Execution & Completion of Horizontal Well and High-Tech Deviated Wells.

M/s \_\_\_\_\_, a Company registered under the Company's Act 1956 and having its Registered Office at \_\_\_\_\_ hereinafter referred to as "Subsidiary", which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns, a wholly owned subsidiary of the Guarantor, have in response to the above mentioned tender invited by the Company, submitted their Bid No. \_\_\_\_\_ dated \_\_\_\_\_ to the Company with one of the condition that the Subsidiary shall arrange a guarantee from its Parent company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by the Company at any stage.

The Guarantor represents that they have gone through and understood the requirement of the above mentioned tender and are capable of and committed to provide technical, financial and such other supports as may be required by the Company for successful execution of the same.

The Subsidiary and the Guarantor have entered in to an agreement dated \_\_\_\_\_ as per which the Guarantor shall be providing technical, financial and such other supports as may be necessary for performance of the work relating to the said tender.

Accordingly, at the request of the Subsidiary and in consideration of and as a requirement for the Company to enter into agreements with the Subsidiary, the Guarantor hereby agrees to give this Guarantee and undertakes as follows:

1. The Guarantor (Parent Company) unconditionally agrees that in case of non-performance by the Subsidiary of any of its obligations in any respect, the Guarantor shall immediately on receipt of notice of demand by the Company take up the job without any demur or objection, in continuation and without loss of time and without any cost to the Company and dully perform the obligations of the Subsidiary to the satisfaction of the Company. In case the Guarantor also fails to discharge its obligations herein and complete the job satisfactorily, the Company shall have absolute rights for effecting the execution of the job from any other person at the risks and costs of the Guarantor. The Guarantor also undertakes to make good any loss that may be caused to the Company for non-performance or un-satisfactory performance by the Guarantor or Subsidiary of any of their obligations.
2. The Guarantor agrees that the Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Subsidiary.
3. The Guarantor shall be jointly with the Subsidiary as also severally responsible for satisfactory performance of the contract entered between the Subsidiary and the Company.
4. The liability of the Guarantor under this Guarantee is limited to the total value of the contract entered between the Subsidiary and the Company and in no event shall the Guarantor's liability hereunder, either in its capacity of Guarantor or as Contractor should it perform the Contract in the event of the subsidiary's non-performance as per point No.1 herein above, exceed that of the Subsidiary under the mutually agreed Contract awarded to the Subsidiary. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Subsidiary.
5. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the Governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection there with or for the due performance of the Guarantors obligations hereunder.
6. The Guarantor also agrees that this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of Assam, India.
7. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion from any person and that the Guarantor has fully understood the implications of the same.
8. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing law or any judgment.

**For and on behalf of (Parent Company)**

**M/s** \_\_\_\_\_

**Per :**

**Signature :**

**Name :**

**Designation :**

**Witness 1 :**

**Signature :**

**Name :**

**Designation :**

**Date :**

**Witness 2 :**

**Signature :**

**Name :**

**Designation :**

**Date :**

**Format of Agreement between Bidder and the Parent Company**  
**(to be made on Stamp Paper of requisite value and notarized)**

This agreement made this \_\_\_\_\_ Day of \_\_\_\_\_ by and between \_\_\_\_\_ having its Registered Office at \_\_\_\_\_ herein after referred to as bidder of the first part AND

M/s \_\_\_\_\_, a Company organized and existing under the laws of \_\_\_\_\_ having a principal business office at \_\_\_\_\_ hereinafter referred to as "Parent Company" on the other part,

WHEREAS

M/s OIL INDIA LIMITED having its Headquarters at Duliajan-786 602, Dist: Dibrugarh, Assam (herein after referred to as OIL), has invited offers vide their e-Tender No. CDGxxxxP16 inviting offers from Vendors for Hiring of Services including Tools/Equipment / Consumables for Design, Execution & Completion of Horizontal Well and High-Tech Deviated Wells.

AND WHEREAS

M/s \_\_\_\_\_, (Bidder) intend to bid against the said tender and desires to have a financial and technical support of M/s \_\_\_\_\_ (Parent Company) and whereas Parent Company represents that they have gone through and understood the requirement of the above mentioned tender and are capable of and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed to by and between the parties as follows :

1. M/s \_\_\_\_\_, (Bidder) will submit an offer to OIL for the full scope of work as envisaged in the tender document as a main bidder and liaise with OIL directly for any clarifications etc. in this contexts.
2. M/s \_\_\_\_\_ (Parent Company) undertake to provide financial, technical support and expertise, expert manpower and procurement assistance and project management to support the bidder to discharge its obligations as per the Scope of Work of the tender/Contract for which the offer has been made by the bidder and accepted by the Parent Company.

However, as a minimum, following services will be covered by the Parent Company:

- i) \_\_\_\_\_
- ii) \_\_\_\_\_ etc.



3. This agreement will remain valid till validity of bidder's offer to OIL including extension if any and till satisfactory performance of the Contract in the event the Contract is awarded by OIL to the bidder.
4. It is further agreed that for the performance of work during Contract period bidder and Parent Company shall be jointly and severally responsible to OIL for satisfactory execution of the Contract.
5. However, the bidder shall have the overall responsibility of satisfactory execution of the Contract awarded by OIL.

**In witness whereof the parties hereto have executed this agreement on the date mentioned above.**

**For and on behalf of (Bidder)**

**For and on behalf of (Parent Company)**

**(M/s \_\_\_\_\_)**

**(M/s \_\_\_\_\_)**

**Signature :**

**Signature :**

**Name :**

**Name :**

**Designation :**

**Designation :**

**Witness : 1**

**Witness : 1**

**Witness : 2**

**Witness : 2**

**INTEGRITY PACT**

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

( Name of the bidder).....hereinafter referred to as "The Bidder/Contractor"

**Preamble :**

The Principal intends to award, under laid down organizational procedures, contract/s for -----, The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organisation "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

**Section 1 - Commitments of the Principal**

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
3. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

## **Section 2 - Commitments of the Bidder/Contractor**

(1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

1. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
2. The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelisation in the bidding process.
3. The Bidder/Contractor will not commit any offence under the relevant Anticorruption Laws of India; further the Bidder/Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
4. The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

(2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

## **Section 3 - Disqualification from tender process and exclusion from future Contracts**

If the Bidder, before contract award has committed a transgression through a violation of Section-2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder

from the tender process or to terminate the contract, if already signed, for such reason.

1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

#### **Section 4 - Compensation for Damages**

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to 3 % of the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.
3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

### **Section 5 - Previous transgression**

1. The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

### **Section 6 - Equal treatment of all Bidders/ Contractor/ Subcontractors**

1. The Bidder/Contractor undertakes to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

### **Section 7 - Criminal charges against violating Bidders/ Contractors/Subcontractors**

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

### **Section 8 - External Independent Monitor/Monitors (three in number depending on the size of the contract) (to be decided by the Chairperson of the Principal)**

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.
3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and

unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/ Contractor/Subcontractor with confidentiality.

4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
8. The word 'Monitor' would include both singular and plural.

### **Section 9 - Pact Duration**

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

### **Section 10 - Other provisions**

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.

4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

-----  
For the Principal

-----  
For the Bidder/Contractor

Place : Duliajan

Witness 1 : .....

Date :

Witness 2 : .....