

**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**

- i) **M/s Slumberger Asia Services Ltd., Mumbai**
- ii) **M/s HLS Asia Ltd., Noida**
- iii) **M/s Weatherford Oil Tool M.E. Ltd., Mumbai**
- iv) **M/s Baker Hughes Inteq, Mumbai**
- v) **M/s Halliburton Offshore Services Inc., Mumbai**

Sub : IFB No. CDG2297L12 for Hiring of 3 Nos. Wireline Logging Units with Services

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 3 Nos. Wireline Logging with Services. 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.:                                  | CDG2297L12   |
| (ii)  | Type of IFB :                             | Single Stage-2(two) Bid System   |
| (iii) | Last Date for receipt of Pre-Bid: Queries | 21-June-2011   |
| (iv)  | Pre-bid conference:                       | 23 & 24-June-2011 at 10-00 hrs (IST)   |
| (v)   | Venue of Pre-Bid Conference:              | Kolkata (Exact venue shall be communicated to the prospective bidders nearer the time) |
| (vi)  | Bid Closing Date & Time:                  | 19-July-2011 at 11-00 hrs.(IST)  |
| (vii) | Bid Opening Date & Time:                  | 19-July-2011 at 14-00 hrs.(IST)  |

(viii) Priced Bid Opening Date: & Time	Will be intimated to the eligible bidder(s) nearer the time
(ix) Bid Submission Mode:	Bid should be uploaded in OIL's E-Procurement portal
(x) Bid Opening Place:	Office of the Head-Contracts Oil India Limited Duliajan – 786602, Assam, India
(xi) Bid Validity :	180 days from date of opening of bid
(xii) Mobilisation Time:	As per Clause No. 2.2 of Section-I of Bid document
(xiii) Bid Security Amount:	₹ 253,00,000.00 or US\$ 560,000.00
(xiv) Bid Security Validity :	210 days from date of closing of bid
(xv) Amount of Performance Guarantee:	7.5 % of estd contract cost for 1st year
(xvi) Validity of Performance Security:	180 days from date of completion of contract
(xvii) Duration of the Contract:	4(four) years with provision for extension by 1(one) year at mutually agreed rates, terms and condition, but with a rate not higher than the originally quoted rate
(xviii) Quantum of Liquidated Damage for Default in Timely Mobilisation	1/2% of 1 <sup>st</sup> year contract cost including mobilization charges for delay per week or part thereof subject to maximum of 7.5%
(xix) Bids to be addressed to:	HEAD-CONTRACTS OIL INDIA LIMITED DULIAJAN - 786 602 ASSAM, INDIA

### 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. Any Bid not accompanied by the Integrity Pact digitally signed by the bidder shall be rejected straightway.

### 4.0 **Pre-Bid Conference** :

4.1 *A pre-Bid conference will be held on 23rd & 24th June, 2011 from 10.00 AM(IST) onwards at Kolkata, India 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. Bidders interested to*

attend the pre-bid conference should contact/intimate well in advance for details of the venue, to the **Head-Contracts**, Oil India Ltd., P.O. Duliajan-786602, **Phone:** 91-374-2808812/2800548, **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.

4.2 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.

4.3 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 21st June, 2011. OIL shall reply /clarify their 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.

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

To participate in OIL's E-procurement tender, bidders should have a legally valid digital certificate 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>). Bidders must have a valid User Id to access OIL e-Procurement site. Bidders having the digital certificate shall request OIL through E-mail or fax or letter along with the cost of bid documents as indicated in the NIT for issue of the User Id for accessing the E-procurement tender. The User ID shall be issued to the eligible bidders on receipt of the requisite cost of the bid document. In case any bidder is exempted from paying the tender fee, they should request OIL with supporting documents for issue of the User Id on free of charge basis. Bidders who do not have a user id, can click on **Guest** login button to view the available open tenders. The detailed guidelines are available in OIL's e-procurement site. For any clarification in this regard, bidders may contact OIL.

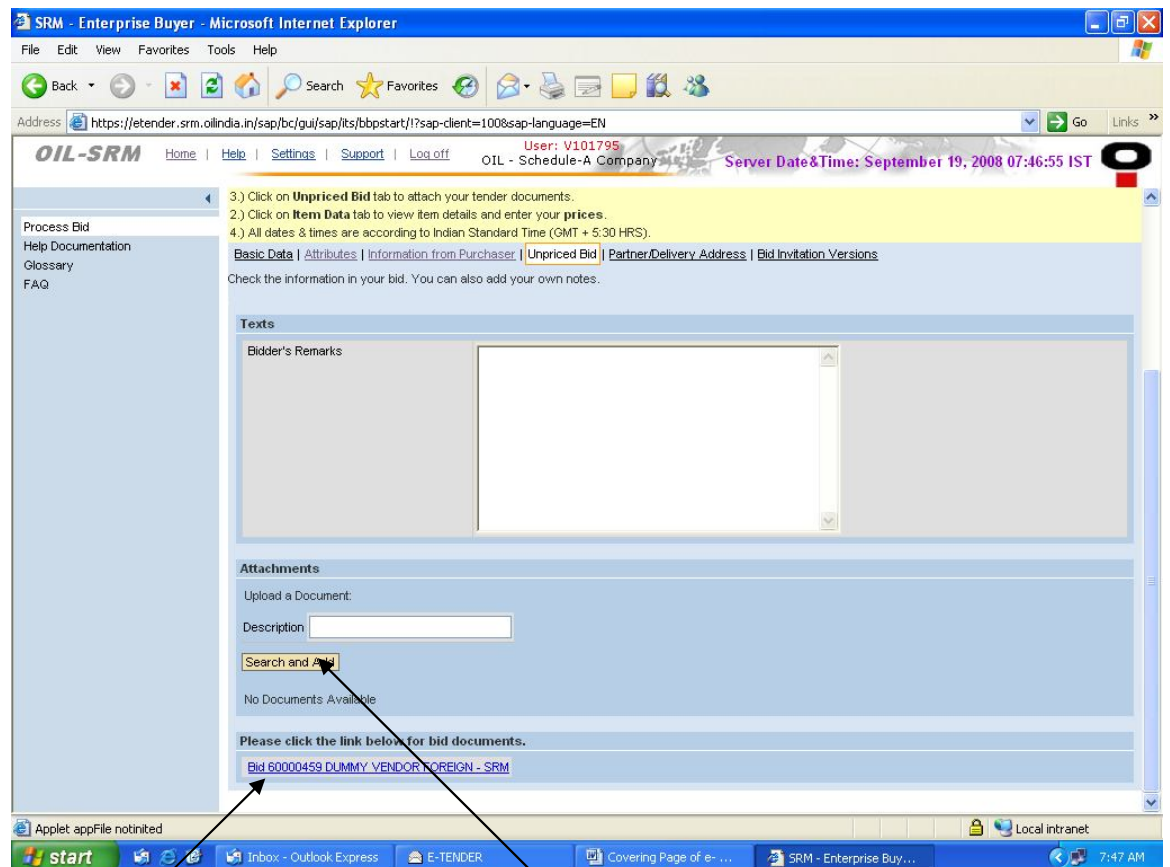
#### 6.0 **IMPORTANT NOTES :**

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 sealed envelope superscribed with OIL's IFB No. and Bid Closing date to Head-Contracts, Contracts Department, Oil India Limited, Duliajan-786602, Assam(India) :
  - a) Original Bid Security
  - b) Any other document required to be submitted in original as per tender requirement.
  - c) Printed catalogue and Literature, if called for in the tender.
  - d) Power of Attorney for signing the bid.

The above documents including the Original bid security must be received at OIL's Contract office on or before the bid closing date and

- time. 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) The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidders shall have to submit both the "TECHNICAL" and "COMMERCIAL" 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 related documents related to the tender are uploaded in the c-Folder link (collaboration link) under Un-priced Bid Tab Page only. **Please note that no price details should be uploaded as c-Folder link (collaboration link) under Un-priced Bid Tab Page. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment in the attachment link under "Unpriced Bid" under "General Data". A screen shot in this regard is given below. Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in Annexure-II.**



**C-FOLDER LINK**

**Details of prices as per Bid format / Commercial bid can be uploaded in this Attachment**

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

Thanking you,

Yours faithfully,  
OIL INDIA LIMITED

( U. R. Borah )  
**HEAD-CONTRACTS(i/c)**  
**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) An "Invitation for Bids" highlighting the following points:
  - (i) Company's IFB No.
  - (ii) Bid closing date and time
  - (ii) Bid opening date, time and place
  - (iii) Bid submission place
  - (iv) Bid opening place
  - (vi) The amount of Bid Security
  - (vii) The amount of Performance Guarantee
  - (viii) 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, (Section-I)
- (e) Terms of Reference/Technical Specification, (Section-II)
- (f) Special Conditions of Contract, (Section-III)
- (g) Schedule of Rates, (Section-IV)
- (h) Integrity Pact Proforma, (Annexure-D)
- (i) Estimated CIF value of items at the time of import, (Proforma-B)
- (j) Price Schedule Format, (Proforma-AX)
- (k) Bid Form, (Proforma-C)
- (l) Statement of Non-Compliance, (Proforma-D)
- (m) Bid Security Form, (Proforma-E)
- (n) Performance Security Form, (Proforma-F)
- (o) Agreement Form, (Proforma-G)
- (p) Proforma of Letter of Authority, (Proforma-H)
- (q) Authorisation for Attending Bid Opening, (Proforma-I)

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 offers 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-Portal in the C-folder under the tab "Amendments to Tender Documents". Bidders shall also be intimated about the amendments through post/courier or by Fax or e-mail to all prospective Bidders to whom Company has issued the Bid Documents. 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 shall also check OIL's E-portal in the main file as well as the C-file time to time 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-portal shall comprise of the following components :

##### **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. Hard copy should be sent separately.
- (iv) Statement of Non-compliance as per Proforma-D
- (v) Proforma-A: List of items to be imported without the CIF values.
- (vi) Copy of Commercial Bid **without indicating prices** (Proforma-B)
- (vii) Integrity Pact digitally signed by OIL's competent personnel as Annexure-A attached with the bid document be digitally signed by the bidder.

##### **(B) COMMERCIAL BID**

- Bidder shall quote their prices in the following Proforma and shall upload the same in the OIL's E-Portal :
- (i) Price-Bid Format as per Proforma-B
  - (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 Unit prices must be quoted by the bidders, both in words and in figures.

8.2 Price 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:** These are listed in **Part - 2**.

**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 "Invitation for Bids" 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-F** 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' valid for 180 days from the date of issue and payable at Duliajan, Assam.

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

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

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

11.6 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.

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

11.8 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 bidders 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.

11.8.1 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.

11.9 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 C-folder 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 before the Technical Bid Opening date and Time failing which the bid shall be rejected.

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

12.1 Central Govt. offices and Central Public Sector undertakings are exempted from submitting Bid Security.

**13.0 PERIOD OF VALIDITY OF BIDS:**

13.1 Bids shall remain **valid for 180** days from the date of opening 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 Opening 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 [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 it's proper usage by their employees.

14.2 The original and all copies of the bid shall be typed or written in indelible inks and shall be signed by the Bidder or a person or persons duly authorised holding a Power of Attorney to bind the Bidder to the contract. The letter of authorisation (as per **Proforma-I**) shall be indicated by written Power of Attorney accompanying the Bid. All pages of the Bid, drawings and

other accompanying documents except for un-amended printed literature, shall be initialed by the person or persons signing the Bid Document.

- 14.3 Any person signing the Bid or any other document in respect of this Bid 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 The Bid should 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 initialed by the person or persons signing 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 Commercial 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. The Technical Bid is to be submitted as per Terms of Reference/Technical Specifications of the bid document and Commercial Bid as per the Price Schedule. The Technical Bid should be uploaded in the C-Folder link(Collaboration link) under Un-Priced Bid Tab Page only. Prices to be quoted as per Proforma-B should be uploaded as attachment in the attachment link under "Unpriced bid under General Data and the grand total cost should be filled online in the Priced Bid screen. No price should be given in the C-Folder, otherwise bid shall be rejected. The price bid should not be submitted in physical form which shall not be considered.

However, the following documents 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 addressed to Head-Contracts, Oil India Ltd., Duliajan-786602(Assam) as 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 E-mail/Fax/Telex/Telegraphic/Telephonic offers will not be accepted.
- 16.0 INDIAN AGENTS:** Foreign Bidders are requested to clearly indicate in their bid whether they have any agent in India. If so, the bidders should furnish the name and address of their agents and state clearly whether these agents are authorized to receive any commission. The rate of the commission included in the rates quoted by bidder should be indicated which would be payable to Agent in non-convertible Indian currency according to Import Trade Regulation of India. Unless otherwise specified, it will be assumed that an agency commission is not involved in the particular Bid. Further, Bidders are requested to submit their bid directly and not through their agents in India. Offers made by Indian agents on behalf of their foreign principals will be rejected. Moreover, one Indian Agent cannot represent more than one foreign bidder against the IFB. In case an Indian agent represents more than one foreign bidder against the IFB, then Bids of such foreign bidders shall be rejected against the IFB.
- 17.0 DEADLINE FOR SUBMISSION OF BIDS:**
- 17.1 Bids should be submitted on-line up to 11.00 AM(IST)(Server Time) on the Bid Closing date mentioned in the Forwarding Letter. Bidders will not be permitted by System to make any changes in their bid after the bid has been uploaded by the bidder. Bidder may however request the administrator through the system for returning their bids before the bid closing date and time for resubmission. But no such request would be entertained once the due date and for submission of bids has been reached and bids are opened.
- 17.2 No bid can be submitted after the submission date 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 the Bid Closing Date & Time 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 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 also will not be permitted.

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

- 21.1 Company will open the 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 Collaboration Folder(C-Folder) will be opened. Bidders therefore should ensure that technical bid is uploaded in the C-Folder link under Unpriced Bid Tab Page only.
- 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 21.7.
- 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-G** 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(covering the warranty period) plus 3 months to lodge claim, if any, 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 fulfill 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 **Annexure-D, Part-4** 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. Any Bid not accompanied by the Integrity Pact Proforma duly signed by the bidder 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 has signed the bid.

34.2 OIL has appointed Shri N. Gopaldaswami, IAS(Retd), Ex-CEC and Shri R. C. Agarwal, 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 :

v) Shri N. Gopaldaswami, IAS(Retd), Ex-CEC, Phone No. : 91-44-2834-2444(Res), 91-9600144444(Cell) ; E-mail : [gopaldaswamin@gmail.com](mailto:gopaldaswamin@gmail.com)

vi) Shri R. C. Agarwal, IPS(Retd), Phone No. : 91-11-22752749(Res), 91-9810787089(Cell) ; E-mail : [rcagarwal@rediffmail.com](mailto:rcagarwal@rediffmail.com)

**35.0 Local Conditions:**

It is imperative for each Bidder to fully inform 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 Bid Document. The bidders shall be deemed prior to submitting their bids to have satisfied themselves

of the all aspects covering the nature of the work as stipulated in the Tender 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 **duly supported with technical catalogue/ literatures wherever required**. 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:**

1.0 i) **The bidder must quote for the items listed below :**

- a) **Logging Unit-1, (Essential): as described in Part-3, Section-II (Table-1)**
- b) **Logging Unit-2, (Essential): as described in Part-3, Section-II (Table-1)**
- c) **Logging Unit-3, (Additional): as described in Part-3, Section-II (Table-1)**
- d) **Data processing services as described in Part-3, Section-II (Table-2)**

**Note A:** Bidders must quote for all the three logging units and data processing services as described above. Part offer (i.e. offer for less than three Logging Units and/or part items of Table-1(Section-II) will not be accepted.

2.0 **EXPERIENCE:**

- i) The bidder must have 5 (five) years satisfactory experience of providing wire line logging services i.e., open hole, cased hole, perforation and other completion jobs. Bidders must have carried out at least 150 numbers each of open hole and cased hole jobs (perforations and other completion jobs) in the last three years. Bidder must have the experience of logging drilling wells of more than 4500m depth.
- ii) The bidder must confirm to provide the required number of qualified, experienced and competent manpower for carrying out the wireline logging, perforation and other associated operations under the contract. Logging engineer(s) proposed to be engaged must have relevant experience of minimum 3 years in wireline logging and perforation jobs.

- iii) **The Data Processing personnel must have minimum 4 (four) years experience in processing and interpretation job as mentioned in the Scope of Work.**

### **3.0 VINTAGE :**

- 3.1 Bids must meet the vintage requirement of tools, equipment & logging unit as mentioned in 'Scope of Work'.
- 3.2 All Tools, Equipment and Unit required for the services should be of latest version and should not be more than 5 years old as on the bid closing date.

### **4.0 OTHER REQUIREMENTS:**

Bidder must comply the following :

- (i) The bids along with all technical documentation must be in English language only. Else, bids will be rejected.
- (ii) Bids must meet the technical requirement of all the Units/tools/ services as mentioned in Table-1&2 of Section-II of the bidding document.
- (iii) The down hole tools offered by the bidder under service codes viz. A-1, A-2, A-3, A-4, A-5, A-6, A-9, A-19, A-20, S-1, S-2, S-3, S-4, S-5, S-6, S-8, S-9 as detailed in Table-1 (of Part-3, Section II) must be with downhole digitization capability. Further, the tools offered for OIL's service code S-3 must have formation imaging capability.
- (iv) Bids must not contain qualifying conditions (For example, in respect of a particular equipment statements like "under field test and shall be supplied by the time the Contract is signed", "Specifications will be upgraded in the event the Contract is awarded" etc.).
- (v) The logging unit(s) offered must be **truck mounted integrated logging unit(s)** capable of running all the services of each category as given in the Scope of Work (Part-3, Section-II).
- (vi) Bidders must give an undertaking to the effect that they are capable of processing and interpreting the log data to provide processed and interpreted results to OIL, wherever applicable, within 48 hours from the time the logging survey is completed / after handing over the recorded data to the Contractor at Duliajan base.
- (vii) Bids must contain the tool calibration data and explosive charge performance data sheets.
- (viii) Bidders must provide the sample logs (hard copy) of all standard, special tools (mentioned in the Scope of Work) logged by them. (Company Name, Field Name & Well Name) may be blanked out on the sample logs.

- (ix) Bidders must provide the information regarding the number of oil-fields/ areas in which the bidder is presently engaged. Proprietary information (Company Name, Field Name & Well Name) may be blanked out on the sample logs.
- (x) All the documents, certificates, information in support of meeting above criteria must be submitted along with the technical bid.

**B. COMMERCIAL - BID SUBMISSION**

- 1.0 Bids shall be submitted under single stage two Bid system i.e. Technical Bid and Priced Bid separately. 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 office at Duliajan before opening of bids. 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 duly signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. Bids without the Integrity Pact digitally signed by the bidder shall be rejected straightway.
- 6.0 Physical Bids received from the bidders shall be rejected.
- 7.0 Bids submitted after the Bid Closing Date and Time will be rejected.
- 8.0 Any Bid received in the form of Telex/Cable/Fax/e-mail will not be accepted.
- 8.0 The bid documents are not transferable. Bids made by bidders who have not been issued the Bid documents from the Company will be rejected.
- 9.0 Bids shall be typed or written in indelible ink and shall be digitally signed by the bidder or his authorised representative.
- 10.0 Bids shall contain no interlineation, erasures or over writing except as necessary to correct errors made by bidders, in which case such corrections shall be initialed by the person(s) signing the Bid.

- 11.0 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.
- 12.0 Bidders shall bear, within the quoted rate, the corporate tax as applicable on the income from the contract.
- 13.0 Any Bid containing false statement will be rejected.
- 14.0 Bidders must quote clearly and strictly in accordance with the price schedule outlined in "Price Bid Format".

**All the bidders must quote as per Price Proforma A, A1, A2, A3 & A4, Tools-on-call (optional) services as per Price Proforma A5 of the bidding document. However, price quoted against Price Proforma A5 will not be considered for bid evaluation purpose. Prices offered by the bidder for all the common items in Logging Unit-1, Logging Unit-2 and Logging Unit-3 must be the same. Otherwise bid will be summarily rejected.**

- 15.0 Bidders shall quote directly and not through their agents through India. Offers made by Indian agents on behalf of their foreign principals will be rejected. One Indian agent cannot represent more than one foreign principal.
- 16.0 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

- 17.0 Indian bidders, whose proposal for technical collaboration/joint venture involves foreign equity participation or payment of royalty and/or lump sum for technical know-how and wherever Govt. approval is necessary, are required to submit copy of Govt. approval on their application prior to date of price bid opening.

**C. GENERAL**

**1.0 VITAL CRITERIA FOR ACCEPTANCE OF BIDS:**

**Bidders are advised not to take any exception/deviations to the bid document. Exceptions/deviations, if any, must be brought out during the Pre-bid conference. OIL, after discussion on the exceptions / deviations in the pre-bid conference may**

communicate to the parties the changes in the bid document, if any through an addendum to the bid document. Still, if exceptions / deviations are maintained by the bidders in their bids, such conditional/ non-conforming bids shall not be considered and shall be rejected outright.

- 2.0 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 on the bidders.
- 3.0 To ascertain the substantial responsiveness of the Bid the Company reserves the right to ask the bidder for clarification 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.
- 4.0 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 -AX**.

- 5.0 The quantities shown against each item in the “**Price Bid Format (i.e. in Proforma-AX)**” 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 - AX.
- 7.0 **METHODOLOGY OF EVALUATION:**  
To ascertain the inter-se-ranking, the comparison of the responsive bids will be made, subject to corrections/ adjustments, based on the financial evaluation of the bids for hiring of services under Logging Unit-1 (Essential), Logging Unit-2 (Essential) and Logging Unit-3 (Additional) by taking into account the summation of the cost of items for Logging Unit-1, Logging Unit-2 and logging Unit-3, as shown in **Table A** below.

**TABLE A**  
**COST DETAILS FOR LOGGING UNITS - 1, 2 & 3**

Srl No.	PARTICULARS	Specify Currency		
		UNIT-1	UNIT-2	UNIT-3
1	Total Charges for mobilisation /demobilization of all standard equipments/service ,Crew and Special tools covered under Price Proforma-A1 (Copy from Price Proforma A1)	TMUB1=	TMUB2=	TMUB3=
2	Total monthly rental charges for all standard equipments/service, Crew and Special tools covered under Price Proforma-A1 (Copy from Price Proforma A1)	TRNU1=	TRNU2=	TRNU3=
3	Total operating charges standard equipments/service and Special tools (Copy from Price Proforma A2)	TOCU1=	TOCU2=	TOCU3=
4	Transportation of unit, crew to the location & back (Average. distance of of 120 km both way in each trip considered for evaluation)	TPTU1=	TPTU2=	TPTU3=
5	Standby charges (for Logging Unit and crew waiting at Well site, beyond 6 hours)	SBU1	SBU2=	SBU3=
6	Cancelled Operation Charges (Job cancelled after unit mobilised to site)	CANU1=	CANU2=	CANU3=
7	Incomplete operations charges for standard services	INCU1=	INCU2=	INCU3=

8	Total data processing charges (Copy from price proforma A3)	TPC(U1)=	TPCU2=	
13	Total Charges for CIS (Copy from ProformaA4)	TCIS1=	TCIS2=	TCIS3=
14	Charges for shifting logging Unit /equipment crew from one Base to another/wellsite camp beyond initial mobilization	SFU1= (B1xR6)	SFU2= (B2xR6)	SFU3= (B3xR6)
	<b>Unit Wise Total Cost</b>	<b>TCU1=</b>	<b>TCU2=</b>	<b>TCU-3</b>

**Total Evaluated Cost of Three Logging Units for four years of operation including all taxes & duties except Customs Duty & Service tax which are extra to OIL's account = TCU1 + TCU2+ TCU3**

**NOTES:**

- i) All rates must be net of all discounts (Degressivity if offered will not be considered for financial evaluation of the bids).
- ii) Bidder is to declare the information as requested vide **Proforma-B** against each of the items to be imported.
- iii) The number and type/details of jobs indicated are given for commercial evaluation only which are purely tentative and may fluctuate. Payment to Contractor shall be made on the basis of actual work done.

**6.0 Granting of Price Preference to Domestic Bidders (applicable to ICB tenders only)**

Domestic bidders would be entitled to a price preference up to ten percent(10%) over the lowest acceptable (evaluated) Foreign bid subject to value addition. For ensuring value addition and eligibility for price preference, domestic bidders should provide all evidence necessary to prove that they meet the following criteria :

- Be registered within India
- Have majority ownership by Nationals of India
- Not sub-contract more than 80% of the works measured in terms of value, to Foreign contractors.

For meeting the criteria at (c) above, domestic bidders should obtain a certificate in original from practicing Statutory Auditors engaged by them for auditing their annual accounts, which could establish that not more than 80% of the works measured in terms of value has been sub-contracted to Foreign contractors. The original certificate indicating various sub-contracting details in percentage terms as well as in absolute value should be submitted in the priced bid. However, a copy of the Statutory Auditor's certificate indicating various sub-contracting details in percentage terms only and with price details should be submitted in the un-priced bid.

Consortium between domestic(Indian) and foreign firms led by Indian firm shall also be eligible for the price preference provided they fulfill the conditions of price preference given for domestic bidder at (a), (b) & (c) above.

However Consortium between domestic and foreign firms led by foreign firms shall not be eligible for price preference even though their domestic partner satisfies the conditions given for domestic bidder at (a), (b) & (c) above.

It must be noted that above information so furnished, if at any stage found wrong, incorrect or misleading, will attract action as per rules/law.

The bidders are requested to check the latest position on the subject on their own and OIL does not accept any liability whatsoever on this account.

- 7.0 **CUSTOMS DUTY** : The Logging units 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.

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## 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 to be entered into between Company and Contractor, as recorded in the contract 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 their 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 providing service under the Contract.
- (f) "Contractor's Personnel" means the personnel to be provided by Contractor to provide services as per contract.
- (g) "Company's Personnel" means the personnel to be provided by OIL or OIL's contractor (other than the Contractor executing the contract). The Company representatives of OIL are also included in the Company's personnel.
- (h) "Gross negligence" mean "willful and wanton disregard for harmful, avoidable and foreseeable consequence".

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

2.1 **EFFECTIVE DATE:** The contract shall become effective as of the date, Company notifies the successful bidder(s), in writing through Letter of Awards (LOA) that it has been awarded the contract. This date of issue of LOA shall be treated as the Effective Date of Contract.

#### **2.2 MOBILIZATION TIME:**

2.2.1 **MOBILIZATION OF LOGGING UNIT - 1 & 2 (Essential units):** The Contractor must mobilize their personnel, logging Unit/equipment, tools, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related

operations within **ninety (90) days** time from the date of issue of Letter of Award (LOA) by the Company. The tools, which need to be mobilized from the special tool category under unit-1 (*refer B. Special Equipment/Tools/services* of Table-1 in section-II) during initial mobilization, will be specified in LOA. The mobilization shall be treated as complete only when all the items mentioned above including Contractor's personnel arrive at Duliajan, and contractor is ready to undertake / commence the work under the contract and also the Data Processing / Interpretation Service is ready as certified by Company's representative.

**2.2.2 MOBILIZATION OF LOGGING UNIT - 3 (ADDITIONAL):** The Additional Unit i.e. Logging Unit - 3, may be mobilized on a later date as per requirement of OIL and need to be mobilized anywhere in Company's operational area in India for logging operation. For mobilization of Logging Unit-3 along with personnel, unit/tools/ equipment/services, spares and all other necessary materials including explosives and radioactive materials required for carrying out the logging and other related operations (as mentioned in scope of work), separate mobilization notice will be given and the Contractor must be able to **mobilize within ninety (90) days** time from the time of intimation. The mobilization shall be treated as complete only when all the items mentioned above including Contractor's personnel arrive at the place of as advised by the Company within OIL's operational area in India and contractor is ready to undertake / commence the work under the contract. The Logging Unit-3 will be mobilized for a minimum period of six months and maximum up to the expiry of the contract period of Logging Unit-1 and Unit-2.

**2.2.3 DATA PROCESSING/INTERPRETATION SERVICE:** Centre for data processing/interpretation services for processing of data acquired by individual unit or third party data as specified in scope of work must be ready within the mobilization time of corresponding unit [(i.e. within **90 days** time from the date of issue of Letter of Award (LOA) by the Company]. At the time of mobilization, Contractor shall make a declaration of preparedness of such centre to take up required job and submit details of the facility/capability of the data processing centre, its location, Bio-Data of the processing/interpretation personnel showing required experience and proof of employment of the processing/interpretation personnel with the contractor. **Company shall make on-site verification of facilities/capabilities of such data processing centre at the time of mobilization.**

**2.2.4 MOBILIZATION OF SPECIAL EQUIPMENT/TOOLS/SERVICES:** For mobilization/demobilization of any of the Special Equipments /Tools/Services (as listed in Part B of Table -1 in Section-II), during the contract period (in addition to special tools that mobilized during initial mobilization of Units), separate mobilization notice will be given and the Contractor must be able to mobilize the tools/services in **sixty (60) days time** from the time of intimation. The related processing/interpretation service for data acquired by those tools must also be made available at the processing centre within that period. Such mobilization of tool(s) shall be for

a period of not less than six months with a maximum till the contract is valid. Similarly, **sixty (60) days** notice will be given for **de-hiring** of above mentioned category tools/services. OIL reserves the right to mobilize and/or extend the hiring period of these tools/services number of times as per OIL's requirement at the same rates, terms and conditions. In case the contract is terminated before six months from the mobilization date of any of the tools mentioned above, the hiring period will be restricted to the date till the contract is valid. The mobilization shall be treated as complete only when all the items mentioned above arrive at Duliajan or at any designated base camp in OIL's operational area where Units is operational and contractor is ready to undertake / commence work under the contract.

While mobilizing tools under category "**Downhole Special Tools**" (as listed in Part B of Table -1 in Section-II) the **1st tool shall always be mobilized against Logging Unit-1. The 2nd tool shown against Logging Unit-2 shall be mobilized only when there is requirement for the Company for a 2nd tool to meet the job demand.**

**Special tools/services S-1, S-2, S-3, S-4, S-5, S-7, S-10 shall be mobilized with Unit-1 during initial mobilization as these tools/services are required regularly for fields covered from OIL's Duliajan base.**

- 2.2.5 If for some reason, there is any change in deployed personnel (logging engineer(s) / data-processing / interpretation geo-scientist / engineer etc.) than those mentioned in the Contract, then the bio-data of the personnel showing fulfillment of required experience terms and conditions is to be submitted to Company at least 30 days prior to date of mobilization for scrutiny and approval by the Company.
- 2.2.6 The date of certification of by Company shall be considered for all purposes as the date of completion of mobilization.
- 2.2.7 If the schedule date of mobilization falls on a holiday, the next working day shall be considered as the scheduled date of mobilization.
- 2.2.8 In the event, the unit/tools/equipments after mobilization, is put into use in its first job as per advise of Company and the unit/tools/equipments fail to provide the desired satisfactory service as required under the terms of the contract, no charges for the unit/tools/equipments including the personnel shall be paid to the contractor from the date of completion of mobilization till the unit/tools/equipments are rectified and the unit/tools/ equipments give satisfactory performance in the second job. If the second job is also unsuccessful, the next successful job shall be considered for this purpose. Under such situation, the mobilization charges shall not be paid till the unit/tool/equipment give satisfactory performance and in case the mobilization charges already paid, the same shall be recovered from the contractor and it will be paid to them only after satisfactory performance.

However for LD purpose, original date of completion of mobilization shall be considered.

**2.2.9 Non mobilization of the Units / tools / services including the intermittent mobilisation of tools/services within the stipulated time shall attract the Liquidated Damage as per Clause No. 17.0 of Section-I.**

**2.3 DATE OF COMMENCEMENT OF CONTACT:** The date on which the mobilizations of the Logging Unit-1 and Logging Unit-2 with tools/equipment/services including personnel are completed in all respect and contractor is ready to commence operation shall be treated as date of commencement of contract for the respective Unit.

**2.4 DURATION OF THE CONTRACT:**

2.4.1 **For Logging Unit - 1 and Logging Unit - 2**, total duration of the contract will be 4 (Four) years from the date of commencement of contract with an option to extend at the sole discretion of the Company for a further period of 1 (one) year at mutually agreed rates, terms and condition, but with a rate not higher than the originally quoted rate, by giving written notice of 30 days by company before expiry of four years period of contract.

2.4.2 For Logging Unit-3, total duration of the contract will be till the expiry of the contract period of Logging Unit-1 & 2 but actual duration of hiring of this unit will be as per Para 2.2.2 above.

2.4.3 If the contract period expires during an on going logging job, the contract will automatically be extended till the completion of that logging job/assignment with same terms and conditions.

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

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

3.2 Except as otherwise provided in the Terms of Reference and the Special Conditions of the Contract, provide all personnel as required to perform the work.

3.3 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.

3.4 Contractor shall be deemed to have satisfied themselves 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 in so far as otherwise provided, cover all its obligations under the contract.

3.5 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.

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 they shall provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently.

5.2 The Contractor must 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 reasonably determined by the Company to be unsuitable and shall promptly replace such personnel with personnel acceptable to 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.

5.4 Contractor's key personnel shall be fluent in English language (both writing and speaking).

5.5 Contractors must not change the key personnel (Logging Engineer(s), Data Processing Engineer,) deployed during mobilization during the tenure of contract. Replacement of key personnel during their leave/off period must be made by personnel having required qualification/experience as per the Contract and such process should be within limited number of personnel declared to Company at the time of mobilization.

**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 Terms

of Reference(Section-II). They should comply with the instructions and guidance in conformation with the contract, which Company may give to the Contractor from time to time.

- 6.2 Should Company discover at any time during the execution of the Contract or within three months from the date of completion of contract that the work carried out by the contractor does not conform to the foregoing warranty, Contractor shall after receipt of notice from Company, promptly perform all corrective work required to make the services conform to the Warranty, subject to availability of the Rig. Such corrective work shall be performed entirely at contractor's own expenses, limited to amounts received by the Contractor for such work that has to be re-performed. If such corrective work is not performed within a reasonable time, the Company, at its option, may have such remedial work carried out by others and charge the cost thereof to the Contractor, limited to amounts received by the Contractor for work with respect to which such remedial works needs to be undertaken, which the contractor must pay promptly. In case contractor fails to perform remedial work, the performance security shall be forfeited.

**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 This obligation shall keep in force even after the termination date and until such information will be disclosed by Company.
- 7.4 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.
- 7.5 Contractor agrees to be bound by professional secrecy and undertake to keep confidential any information obtained during the conduct of the wireline operations, including, but not limited to, formations penetrated, results of coring, testing and surveying of the well. And to take all-reasonable steps to ensure the Contractor's personnel likewise keep such information confidential.

7.6 Contractor shall forbid access to the Unit(s) to any people not involved in the wireline logging operations or not authorised by the Company to have access to the logging Unit. However, this provision is not applicable to any Government and/or police representative on duty.

**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 operation under the contract, the contractor shall furnish the company with the necessary documents, as asked for by the Company and/or and 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 payment 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 six 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/duties(excluding custom duty) levied on materials/ consumables will be to the account of Contractor.

8.9 **Service Tax:** The prices quoted should be exclusive of Services Tax. The service tax, if any, applicable and/or levied on payment made against this Contract shall be paid by the Company to the Contractor against invoices.

**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.

- 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 (as required under Public Liability Insurance Act 1991) 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.
- 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 Seventy Two (72) 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 seventy two (72) hours after its occurrence the 'force majeure' rate shall apply for a maximum period of fifteen days. Either party will have the right to terminate the Contract if such 'force majeure' condition continues beyond fifteen (15) 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 15(fifteen) 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, there of.
- 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 Clause 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 up to 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 20 days notice in writing to the Contractor, if Contractor fails to comply with the requisitions contained (limited to scope of work and technical specification as per scope of work) 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 20 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 up to 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 through Fax or through letter and confirmed in writing to the applicable address specified below:

**COMPANY**

a) **For Contractual Matters**

Head (Contracts)  
OIL INDIA LIMITED  
DULIAJAN - 786602  
ASSAM, INDIA  
Fax No. 0374-2803549  
E-Mail: contracts@oilindia.in

b) **For Technical Matters**

General Manager (G & R)  
OIL INDIA LIMITED  
DULIAJAN - 786602,  
ASSAM, INDIA  
Fax No. 0374-2801678  
E-Mail: g&r@oilindia.in

c) **Contractor :**

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

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 manner to the satisfaction of the Company.
- 16.4 Key personnel can not be changed during the tenure of the Contract unless due to sickness/death/resignation/retirement 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:**

- 17.1 **FOR DEFAULT IN TIMELY INITIAL MOBILISATION OF UNITS:** Time is the essence of this Contract. In the event of the Contractor's default in timely mobilization of the Logging Unit(s) with personnel for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 0.5% of 1st year contract value including mobilization charge for each Logging unit 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 mobilization period till the Date of Commencement of Contract as defined in Clause No. 2.0 of Section-I.
- 17.2 **FOR DEFAULT IN INTERIM MOBILISATION OF SPECIAL EQUIPMENT/ TOOLS/SERVICES IN TIME:** Time is the essence of this Contract. In the event of the Contractor's default in interim mobilization of the Special equipment/Tools/Services and Tools on call (optional) in time during the tenure of the contract as per Clause No. 2.2.4 of Section-I, General Conditions of Contract for operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 0.5% of

1st year contract value including mobilization charge for the unit(s) 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 mobilization time till arrival of the Tools/Services at site and the same are in readiness to commence work as defined in Clause No. 2.0 of Section-I.

- 17.3 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.
- 17.4 For the purpose of computing liquidated damage for default in timely mobilization of any additional service(s), the contract amount shall be considered equivalent to the part of the contract value corresponding to the particular additional service(s) for which notice of mobilization is served on Contractor.
- 18.0 **PERFORMANCE SECURITY:** The Contractor shall furnish to Company a Bank Guarantee for 7.5% of estimated Contract Price for 1st year, including mobilization charge, with validity at least up to 6 months (covering the warranty obligations and another 3 months to lodge claim, if any) beyond the entire period of the contract with extension if any, towards performance security. 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 extension of the Contract period, the validity of the bank guarantee shall be suitably extended by the Contractor. 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 personnel 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 Wireline Logging Services 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 (except gross 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 therefrom.

- 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 (except gross 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 therefrom.
- 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 unless caused by gross negligence of the company, its contractors, sub-contractors, servants, agents or nominees.
- 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 or agents, nominees or servants, irrespective of how such loss or damage is caused and even if caused by the negligence (except gross negligence) of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. The Company shall protect, defend, indemnify and hold harmless Contractor, their sub contractors, servants, agents and nominees from and against such loss or damage and any suit, claim or expense resulting therefrom.
- 21.6 Neither Contractor nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever to whomsoever for 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 their sub contractors, servants, agents and nominees from and against such liabilities and any suit, claim or expense resulting therefrom.

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, servants, agents and nominees 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, servants, agents and nominees when such injury, illness or death arises out of or in connection with the performance of the Contract.

22.0 **LIMITATION OF LIABILITY**

Notwithstanding any other provisions, except only in cases of willful misconduct and / or criminal acts,

(a) Neither the Contractor nor the Company (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided however that this exclusion shall not apply to any obligation of the Contractor to pay Liquidated Damages to the Company and

(b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the Contractor in respect of this contract, whether under Contract, in tort to indemnify the Company with respect to Intellectual Property Rights.

(c) Company shall indemnify and keep indemnified Contractor harmless from and against any and all claims, costs, losses and liabilities or otherwise, shall not exceed 50% of the Annualized Contract Price, provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the Contractor, or to any obligation of the Contractor in excess of the aggregate liability amount in terms of clause (b) above.

**23.0 CONSEQUENTIAL DAMAGE:** Except as otherwise expressly provided, 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.

**24.0 INDEMNITY AGREEMENT:**

24.1 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/ properly 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 (except gross negligence where mentioned) or otherwise, in whole or in part or other faults.

24.2 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 or third parties on account of bodily injury or death, or damage to personnel/ properly 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 (except gross negligence where mentioned) or otherwise, in whole or in part or other faults.

**25.0 INDEMNITY APPLICATION:** The indemnities given herein above, whether given by Company or Contractor shall be without regard to fault or to the negligence (except gross negligence where mentioned) 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 (except gross negligence where mentioned), either sole or concurrent of either party.

**26.0 PAYMENT & INVOICING PROCEDURE:**

26.1 Company shall pay to Contractor, during the term of the contract, the amount due 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 this contract. All payments will be made in accordance with the terms hereinafter described.

26.1.1 Request for payment /part payment to a third party i.e. to a party other than the contractor will not be entertained by OIL under any circumstances.

- 26.2 All payments due by Company to Contractor shall be made at Contractor's designated bank account within 30 days of receipt of invoice. All bank charges (except the charges payable to the Company's bankers) will be to Contractor's account.
- 26.3 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.
- 26.4 Contractor shall submit invoices to Company on the day following the end of each month for all daily or monthly charges due to the Contractor. Contractor will submit 6(six) sets of all invoices to Company address given under para 14.1 (b) above for processing of payment.
- 26.5 Invoice for the reimbursable charges related to the contract will be accompanied by documents supporting the cost incurred.
- 26.6 Payment of monthly invoices, if undisputed, shall be made within 30 days following the date of receipt of invoice by Company excepting for the first two (2) monthly invoices where some delay (up to one month) may occur.
- 26.7 Payment of mobilization charges shall be made within 45 days following the date of receipt of undisputed invoices by Company. Mobilization should be complete in all respect before raising invoice.
- 26.8 The Company shall within 20 days of receipt of the invoice notify 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. This will not prejudice the Company's right to question the validity of the payment at a later date as envisaged in Sub-Clause 26.3 above.
- 26.9 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 respect of any other billing, the payment of which may then or thereafter be due.
- 26.10 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.

26.11 Contractor shall maintain complete and correct records of all information on which Contractor's invoices 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. Any audit conducted by Company of Contractor's records, as provided herein, shall be limited to Company's verification (i) of the accuracy of all charges made by Contractor to Company and (ii) that Contractor is otherwise in compliance with the terms and conditions of this Agreement.

26.12 **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 may be set off against any claim of OIL (or such other person or person 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 (such as other person or persons contracting through OIL).

27.0 **WITH-HOLDING:** Company may withhold or nullify the whole or any part of the amount due to Contractor, after informing the Contractor of the reasons in writing, 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, taxes or enforced savings with-held 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 fifteen 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, with-hold from the amounts due to Contractor, a sum equal to the amount of such unpaid indebtedness.

With-holding will also be affected 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 unauthorized imports.

When all the above grounds for withholding payments shall be removed, payment shall thereafter be made for amounts so with-hold.

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 related to some grossly negligent act or omission on the part of Contractor.

#### **28.0 APPLICABLE LAW:**

28.1 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.

28.2 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, 1952- 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 thereunder
- 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, WB & Bihar Tax Act
- l) Service Tax Act
- m) Customs & Excise Act & Rules
- n) Assam, West Bengal and Bihar Entry Tax Act
- o) Environmental protection act
- p) Public liability act

28.3 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 wage rates of the contract labour should be borne by the contractor.

28.4 Any permission from the mines directorate in connection with working in excess of 8 (eight) hours by the contractor, if required 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.

28.5 The contractor shall not engage labour below 18 (eighteen) years of age under any circumstances. Person above 60 years of age shall not be deployed.

29.0 **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 IP survey section with major items consumed, 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 survey, or give out to any third person information in connection therewith.

30.0 **SUBSEQUENTLY ENACTED LAWS:** Subsequent to the date of closing of bids, 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.

- 31.0 **ROYALTY AND PATENTS**: Each party shall hold the other harmless and indemnify from and against all claim and proceedings for or on account of any patent rights, design, trade mark or other protected rights arising from any use of materials, equipment, processes, inventions and methods which have not been imposed on the attending party by the terms of the contract or the specifications or drawings forming part thereof.
- 32.0 **WAIVER**: Any delay in exercising and any omission to exercise any right, power or remedy exercisable by the Company under this contract shall not impair such right, power or remedy nor shall any waiver by the Company of any breach by the Contractor of any provision of this contract prevent the subsequent enforcement of that provision by the Company or be deemed a waiver by the Company of any subsequent breach by the Contractor.
- 33.0 **WAIVER AND AMENDMENTS**: It is fully understood and agreed that none of terms and conditions of the contract shall be deemed waived or amended by either party unless such waiver or amendment is executed in writing by the duly authorized agents or representative of such party. The failure of either party to execute any right of termination shall not be act as a waiver or amendment of any right of such party provided hereunder.

**&&&&&**

## SECTION - II

### TERMS OF REFERENCE

**1.0 WIRELINER SERVICES: SCOPE OF WORK:** Oil India Limited is planning to hire wireline logging services from reputed wireline logging service company for carrying out both open hole & cased hole logging, perforation and data processing in its onshore fields in India. The details about the oilfields and area of operation is given in Annexure- A of this Section.

**1.1** Total three (3) numbers of Logging Units along with data processing service are required. The services required are categorized as follows:

- a) **Logging Unit-1 (Essential)**
- b) **Logging Unit-2 (Essential)**
- c) **Logging Unit-3 (Additional)**

**1.2** Logging Unit-1 and Logging Unit-2 need to be mobilized within 90 (ninety) days after award of contract as per LOA issued. Logging Unit-3 will be treated as additional unit and if required, Company shall give a separate notice to Contractor for mobilization of the Logging Unit-3. Contractor shall mobilize the Logging Unit-3 (along with all equipment, services and crew) within 90 (ninety) days from the date of issuance of mobilization notice by the Company.

**1.3** Bidders are required to quote for all the three logging services along with data processing service.

#### **1.4 LIST OF SERVICE REQUIRED:**

**1.4.1** List of services/tools required with corresponding OIL's code (a reference code defined for each service/tool/equipment), total quantity of each service/tool required and their distribution pattern for Logging Unit -1, Logging Unit -2 and Logging Unit -3 (i.e. Unit Vs. Tools distribution pattern) is given in Table-1 below :

**TABLE - 1: LIST OF REQUIRED SERVICES**

	OIL's Code	Service Description	No. of Units/ tools / services required	No. of tool /equipment to be mobilized with		
				Logging Unit-1	Logging Unit-2	Logging Unit-3
<b>A. Standard Equipment / Tools /Services: to mobilize for entire contract period</b>						
1	TR-1	Onshore Truck mounted Logging Unit	3	1st	2nd	3rd
2	TR-2	Wellhead Control Equipment (BOP)	3	1st	2nd	3rd
3	TR-3	Pressure Control Equipment for Through Tubing	3	1st	2nd	3rd

	OIL's Code	Service Description	No. of Units/ tools / services required	No. of tool /equipment to be mobilized with		
				Logging Unit-1	Logging Unit-2	Logging Unit-3
		Operations				
4	TR-4	Fishing Equipment	3	1st	2nd	3rd
5	CR-1	Personnel/Crew	3	1st	2nd	3rd
6	A-1	Dual latero log (deep and medium focused laterolog resistivity) services with spontaneous potential)	3	1st	2nd	3rd
7	A-2	Invaded Zone Resistivity for Rxo measurement with borehole caliper	3	1st	2nd	3rd
8	A-3	Dual Spaced Compensated Neutron Services	3	1st	2nd	3rd
9	A-4	Formation Density & Photo Electric Absorption Cross Section Measurement Services	3	1st	2nd	3rd
10	A-5	Natural Gamma ray services.	3	1st	2nd	3rd
11	A-6	Gamma ray Spectroscopy Services	3	1st	2nd	3rd
12	A-7	Percussion Type Side Wall Core Sampling Gun Services with Gamma Ray Positioning	3	1st	2nd	3rd
13	A-8	Stuck up Detection and Back-off Services.	3	1st	2nd	3rd
14	A-9	Borehole deviation survey services	3	1st	2nd	3rd
15	A-10	Downhole Tension Services.	3	1st	2nd	3rd
16	A-11	i) Cement Bond evaluation services including variable density type of logging ii) Borehole compensated sonic service	3	1st	2nd	3rd
17	A-12	a) Bridge plug Setting	3	1st	2nd	3rd
		b) Retainer Packer Setting	3	1st	2nd	3rd
		c) Junk Basket	3	1st	2nd	3rd
18	A-13	Through Tubing perforation gun with standard and deep	3	1st	2nd	3rd

	OIL's Code	Service Description	No. of Units/ tools / services required	No. of tool /equipment to be mobilized with		
				Logging Unit-1	Logging Unit-2	Logging Unit-3
		penetration charges.				
19	A-14	Casing gun perforation usable with standard and deep penetration charges.	3	1st	2nd	3rd
20	A-15	Casing Collar Locator Services (CCL)	3	1st	2nd	3rd
21	A-16	Shooting Gamma Ray Services for				
		i) Through Tubing Perforations	3	1st	2nd	3rd
		ii) Casing Gun Perforations	3	1st	2nd	3rd
22	A-17	Tubing, Drill Pipe, Casing cutting and Drill collar severing/colliding services Using explosive jet cutter & severing tool	3	1st	2nd	3rd
23	A-18	Puncture services for 2.7/8" OD tubing to 5 " OD drill pipe	3	1st	2nd	3rd
24	A-19	Dipole Shear Sonic Imager	1	1st	*	*
25	A-20	Acoustic Scanning Tool For Cement Evaluation and Pipe Inspection	1	1st	*	*
<b>B. Special Equipment / Tools/services: to mobilize / demobilize as per requirement</b>						
26	S-1	Triaxial Borehole Seismic services for vertical seismic profiling (VSP) with energy source, surface equipment and accessories	2	1st	2nd	*
27	S-2	Nuclear Magnetic Resonance Service	2	1st	2nd	*
28	S-3	Tool for high resolution bore hole imaging services using microelectric arrays	2	1st	2nd	*
29	S-4	Dynamic Formation Testing Services with Pump Out Module and Optical / Resistivity Based Fluid Analyzer, quartz pressure gauge and Fluid samplers	2	1st	2nd	*

	OIL's Code	Service Description	No. of Units/ tools / services required	No. of tool /equipment to be mobilized with		
				Logging Unit-1	Logging Unit-2	Logging Unit-3
		(PVT)				
30	S-5	Through tubing reservoir monitoring tool	1	1st	*	*
31	S-6	High Resolution Array Induction service	1	1st	*	*
32	S-7	i) Through Tubing Bridge Plug for 5.1/2" casing	1	1st	*	*
		ii) Through tubing cement dump bailer	1	1st	*	*
33	S-8	Production Logging Services (PLT)	1	1st	*	*
34	S-9	Through tubing slim cement bond evaluation service	1	1st	*	*
35	S-10	Pipe Conveyed Wire line Logging Services	2	1st	2nd	*
36	S-11	Motorized tractor service	1	1st	*	*
37	S-12	Tubing Conveyed Perforation Services	2	1st	2nd	*
38	S-13	Elemental Capture Spectroscopy logging (ECS/GEM or equivalent)	1	1st	*	*
39	TR-5	Data transmission	2	1st	2nd	*

#### 1.4.2 NOTE ON TABLE - 1:

- a) Details of tool specifications, measurement required are given in Annexure - B.
- b) All the services listed under Sub-heading " **A. Standard Equipment/Tools /Services: to mobilize for entire contract period**" in Table-1 above will be mobilized as per distribution pattern shown along with the mobilization of corresponding Logging Unit, e.g. for service A-5, out of three tools required, one tool will be mobilized with Logging unit-1, one tool with Logging unit-2, and one with Logging Unit-3.
- c) Each of the services listed under Sub-heading "B. Special Equipment/ Tools/ services: to mobilize / demobilize as per requirement" in Table-1 above will be mobilized/ demobilized as per requirement of Company. When mobilized, the 1st tool of this category shall always be against Logging Unit-1. The 2nd tool shown against Logging Unit-2 shall be mobilized only when

requirement for extra tool arises to meet the job demand.

- d) **Special tools/services S-1, S-2, S-3, S-4, S-5, S-7, S-10 shall be mobilized with Unit-1 during initial mobilization as these tools/services are required regularly for fields covered from OIL's Duliajan base.**
- e) **Tools mobilized under each service code need to be used with any one of the logging unit as per Company's requirement.** The Symbol '\*' for any service / tool against any Logging Unit means that service / tools mobilized for other unit may be used in that unit as and when required. If the units are placed at different bases, the cost of transportation of the tool will be paid on actual basis.
- f) The Additional Unit i.e. Logging Unit-3, if required, shall be mobilized at a later date as per requirement of OIL.
- g) Under emergency condition, Company may ask Contractor to run OIL's or third party tools/service using their unit or vice-versa, if technically found suitable. The conditions for the same are given in Clause 2.4 below (CIS clause).
- h) **Additional requirement, if any, of any of the tools mentioned in the Table above may need to be mobilized by the Contractor in the same rate, terms & conditions during the contract period.**

**1.4.3 LIST OF DATA PROCESSING SERVICES REQUIRED:** The list of data processing services with interpretation reports required is given in Table-2 below:

**TABLE - 2: LIST OF DATA PROCESSING SERVICES REQUIRED**

SI No.	Service Code	Service	Post Processed data requirements
1	PA-19	Shear sonic imager (for data acquired by tool code A-19)	<p><i>I) Processing of Dipole Shear-Sonic Imager data for evaluation of</i></p> <ul style="list-style-type: none"> <li>a) Compresional, Shear ( both X &amp; Y direction) and Stoneley slowness with integrated travel time, Vp/Vs</li> <li>b) Geo-mechanical properties viz. Young, shear and bulk modulus, Poisson's ratio, etc.</li> <li>c) Evaluation of formation anisotropy, anisotropy map</li> <li>d) Borehole stability analysis and prediction of safe mud window.</li> <li>e) Permeability from Stoneley</li> <li>f) Stoneley fracture identification</li> </ul> <p><i>II. Geo-Mechanical Modeling</i></p>

SI No.	Service Code	Service	Post Processed data requirements
			Geo - Mechanical modeling of an area combining shear sonic data with other necessary data viz. shear sonic data acquired using DSI or equivalent, Resistivity /density/neutron, resistivity image log data and any other available relevant data to guide well planning viz casing depth, well trajectory, borehole stability analysis and prediction of safe mud window etc. Such analysis may be carried out using data from one or more than one well located in the same structure/area.
2	PA-20	Acoustic Scanning Tool For Cement Evaluation and Pipe Inspection (for data acquired by tool code A-20)	Processing of data of Acoustic Scanning Tool for Cement Evaluation & Pipe Inspection. a) Azimuthal mapping of Casing to cement bond, b) Casing ID/OD for pipe corrosion
3	PS-1	Triaxial Borehole Seismic services (for data acquired by tool code S-1)	Processing of Borehole Seismic Services (VSP) data in openhole & cased hole relevant to acquisition mode with report comprising of: i) Composite Display of Down-going waves, corridor stack (repeating 6-7 times) with check-shot corrected Sonic, Density, Gamma and Formation Tops. This display is to be with respect to SRD (seismic reference datum). ii) Display of original Down-going (i.e. after separation) waves and display of Down-going waves after Deconvolution. iii) Details of velocity filter and Deconvolution parameters as part of processing note. iv) VSP Velocity Listing Table: The primary use of VSP is for accurate well - to- seismic ties. Seismic sections are always based on the SRD (seismic reference Datum). Therefore, velocity listing table should have a column mentioning SRD so that the average velocity and interval velocity can be seen w.r.t. SRD. v) Time-Depth Curve: The Depth axis should start from SRD level. At right hand side, there should be a color bar indicating the Formation Tops and Thickness.

SI No.	Service Code	Service	Post Processed data requirements
			vi) Time-Depth Table: Interval velocity and Average velocity should be mentioned along with TWT. vii) Checkshot data viii) Report on acquisition and processing
4	PS-2	Nuclear Magnetic Resonance (for data acquired by tool code S-2)	Processing of data of Nuclear Magnetic Resonance Logging Services for a) Determination of total and effective porosity, capillary and clay-bound water & free fluid volume, pore size distribution, permeability, b) <b>Hydrocarbon typing and quantification.</b>
5	PS-3	Tool for high resolution bore hole imaging services using microelectric arrays (for data acquired by tool code S-3)	Processing of Borehole Imaging data a) Static and dynamic image b) Automatic and manual dip picking c) Structural interpretation for presence of fault, fracture and other structural features and their nature, borehole breakout pattern and indicated pattern etc etc. d) Stratigraphic interpretation: identification of beds, bedding internal structure like cross laminations and depositional environment indicated integrating other basic log data.
5	PS-4	Dynamic Formation Testing Services (for data acquired by tool code S-4)	Processing of Pretest data for a) Identification of fluid pressure gradient, fluid contacts, permeability and any other answer product relevant to acquisition mode.
6	PS-5	Through tubing reservoir monitoring tool (for data acquired by tool code S-5)	Processing of data of through tubing Reservoir Monitoring Services (in-elastic & sigma mode) to evaluate a) <b>Hydrocarbon saturation behind casing, identify</b> fluid contacts, porosity estimation, identification of mineralogy b) Water flow velocity re-computation from acquisition data including manual picking of water velocity.

SI No.	Service Code	Service	Post Processed data requirements
7	PS-8	Production logging services	Production Log Edit for Depth Matching and reporting, multi-phase hold-up diagnosis any kind of interpretation related to acquisition mode.
8	PS-13	Elemental Capture Spectroscopy logging (for data acquired by tool code S-13)	Lithology from Elemental Capture Spectroscopy from corrected clay model and dry weights. Determination of Silicon, calcium, Iron, Gadolinium, Titanium, mica feldspar composite and other minerals for accurate clay volume estimation and clay typing. Output should be in PDS/Tiff/PDF & LAS file.
9	P-Basic	Basic Log interpretation	Basic log Interpretation (probabilistic method viz. ULTRA or ELAN Plus or equivalent) for lithology/ mineralogy, effective & total porosity, permeability, fluid saturation & fluid type from log data acquired by the contractor or by a third party including OIL's in-house logging services for OIL's wells originating from any part of the world.

#### 1.4.4 NOTE ON TABLE - 2

a. The Table-2 describes the services for which data processing required and processing requirements. Successful bidder have to carry out processing of data acquired using tools/services against units offered by them.

b. For serial No. 9 (Basic log interpretation), contractor has to process standard log data (Gamma ray - Resistivity - porosity - density - DTC suite) acquired in OIL's Wells originating from any part of the world. For this purpose, contractor has to process data acquired either by the contractor or by OIL's in-house logging services or by a third party for OIL using any industry standard tool.

**1.4.5 TOOLS ON CALL (OPTIONAL):** Contractor shall provide below listed tools/ Services on call out basis as and when required by Company. Company shall give the mobilization notice of 60 days and Contractor shall mobilize the required tools and provide the services to Company.

**1.4.5.a Bidder may quote price for all or some of the tools/services, which they are capable of providing, as per price proforma-A5. These tools (listed in table-3 below) will not be considered for evaluation of bid. However those tools/services offered by successful bidder in their bid shall be kept as Tools-on-call (optional) services and if company require, bidder has to supply those tools to be utilized using already mobilized Logging Unit of successful bidder.**

**1.4.5.b:** Bidder has to give rate reasonability of the prices quoted for Tools on call (Optional) services, which will be compared with those **of existing/ running contracts with other E&P companies in India** at which the bidder has supplied the same items / services **prior to the date of tender opening**. For this purpose the bidder will be asked to provide the copy(ies) of orders executed / currently in hand. OIL reserves the right to take only those Tools on call (Optional) services for which rate reasonability is established as per the above methodology.

**Table-3: LIST OF OPTIONAL TOOLS**

	<b>OIL's Code</b>	<b>Service Description</b>	<b>No. of tools required</b>
1	AD-1	High Resolution Laterolog	1
2	AD-2	Compact combo logging tool (Neutron, Density porosity, shallow micro resistivity, gamma ray and caliper with high-resolution array induction).	1
3	AD-3	3D sonic Scanner or equivalent	1
3	AD-4	Slim Cased hole formation resistivity service	1
4	AD-5	Cased hole formation density & porosity services. (same tool to utilize for open hole and cased hole)	1
6	AD-6	Nuclear Magnetic Resonance Log – Multiple Depths Of Investigation	1
7	AD-7	Multi-Finger Imaging Caliper	1
8	AD-8	Casing patch tool	1
9	AD-9	Stim Tube/Stim Gun Services	1

**2.0 OTHER REQUIREMENTS FOR WIRELINE LOGGING, PERFORATION, DATA PROCESSING AND INTERPRETATION SERVICES**

**2.1. ESSENTIAL CAPABILITIES REQUIRED FOR LOGGING UNITS:** The logging unit must have the following general facilities/capabilities:

- i. Online digital data acquisition and processing.
- ii. Online display of logs on a video screen and scratch log on paper for depth control.

- iii. Choice of linear and/or logarithmic scales for log display.
- iv. Logging speed, tension and tool current curves must be recorded on all logs.
- v. 100% redundancy (Dual logging system) on recording to avoid loss of Rig time.
- vi. The down hole tools offered by the bidder under service codes viz. A-1, A-2, A-3, A-4, A-5, A-6, A-9, A-19, A-20, S-1, S-2, S-3, S-4, S-5, S-6, S-8, S-9 as detailed in Table-1 (of Part-3, Section II) must be with downhole digitization capability.
- vii. Tools and equipment must have minimum temperature rating of 150 degrees C (300 degrees F) and minimum pressure rating of 15,000 psi.
- viii. Facilities for logging of deviated wells with deviation upto 40-45 degrees. Therefore, the logging unit must have all required accessories like flexi/ knuckle joints and hole finders etc.
- ix. Contractor must provide compressor unit with accessories for adequate pressure maintenance (compressed air) during any logging operations such as but not limited to "live-well cased hole perforations".

**2.2. LOG DATA SUBMISSION REQUIREMENTS:** Log data recorded have to be submitted as follows:

- i. **Well site data submission:** Immediately after recording:
  - a) Digital data have to be submitted in CD/DVD/USB in LIS/DLIS and LAS format.
  - b) Paper prints of each log suite to be submitted in 1:600 & 1:240 scale, two sets in each scale.
- ii. **Final data submission:** Final data to be submitted within three (3) days of recording as follows:
  - a) Digital data in CD/DVD in LIS/DLIS and LAS format with proper label showing well name, service run etc.
  - b) Paper prints of each log suite in 1:600 & 1:240 scale, two sets in each scale showing acquisition/calibration information & header information.
  - c) One print of each log suite on film, both in 1:600 & 1:240 scale.

**2.3 Other Essential Equipment & Conditions to be fulfilled :**

- i. Refurbished tools or equipment shall not be deployed against the Contract.

- ii. Technical Specifications of the tools and equipment required for the services are mentioned in **Annexure-B**.
- iii. Environmental correction charts for different tools as shown in **Annexure-C** must be provided.
- iv. The required calibration equipment and verifiers for calibrating all the tools/ equipment mobilized against the Contract must be made available at Contractor's base where unit is asked to mobilize throughout the contract period.
- v. All radioactive sources, storage and handling tools/equipment in accordance with International safety standards and also the AERB's guidelines on safety and security of the radioactive sources.
- vi. Perforation charges, power charges, detonators, detonating cords and explosive materials to be available in the form of sizes and packing in accordance with IATA rules and standard for air freighting.
- vii. Contractor must keep the necessary fishing tools/kits for carrying out fishing operations of their all down hole tools.
- viii. Contractor must keep the necessary cable splicing kit to repair the cable as and when required.

**2.4 CUSTOMER INSTRUMENT SERVICE (CIS) : Customer Instrument Service (CIS) charges are payable for running tools and/or services of OIL and/or other contractors utilizing Contractor's unit and/or cable or vice versa, under mutual agreement between Contractor and other contractor/OIL duly endorsed by the Company. CIS shall be availed under operational exigency, subject to technical suitability.**

**2.4.1 CIS payment will be governed as follows:**

i) **For Contractor providing Unit/ Winch/Cable System:**

One CIS charge in addition to charges as per unit provider contract will be payable from rig up to rig down. In addition 10% of CIS Charges will be payable for each run in the well (irrespective of outcome of the run) carried out by third party. Contractor will provide cable, winch system, well head system/assemblies and operate the winch to lower the tool through his cable/system. Contractor will also provide assistance in interfacing.

ii) **Contractor providing Tool(s)/Services:**

One CIS charge will be payable from rig up to rig down, irrespective of number of tools, for arrangement in addition to rental, operating and other charges as per tool/service provider contract. In addition 15% of CIS Charges will be payable only for successful run of each tool. Additional equipments and specialist are to be provided by tool/

service contractor for interfacing with third party Unit/Winch/Cable System and operating the tool.

## **2.5. Data Processing & Interpretation Requirements**

**2.5.1 At Well Site:** Logging truck must be equipped to carry out quick look processing at the well site.

**2.5.2 At Data Processing Centre:** Bidder should have a data processing centre within India with experienced processing and interpretation geoscientists / engineers for carrying out detailed processing of the data. Details of data processing services required are given in Table- 2 (section-II) above.

- i. The Data Processing Geoscientists / Engineers must have minimum 4 (four) years experience in processing and interpretation job as mentioned in Table-2 (para1.4.5 above).
- ii. The data processing and interpretation Geoscientists / Engineers will have to carry out detailed processing of the data and submit the result within 48 hours from the time the survey is completed/ after handing over the recorded data to Contractor at Duliajan. Processed / interpreted data must be submitted by bidders representative stationed at Duliajan base.
- iii. Transfer of raw / processed data between contractor's Duliajan / field base and processing/ interpretation centre is contractor's responsibility and Company will not pay any additional charge for it.
- iv. Details of the data processing facilities at the processing centre and its location must be submitted along with the bid.
- v. Data processing Geoscientists / Engineers must visit OIL office Duliajan at least once in a month for interaction with OIL's geoscientists for discussion on job planning, processing result, service quality issues etc.
- vi. OIL's Geoscientist may time to time visit contractor data processing centre for input during data processing and knowledge exchange/work association. Company shall bear the cost of travel for its Geoscientist to contractors processing centre. Contractor has to provide working space and facility to company's Geoscientist at their data processing centre free of cost during the period of visit.
- vii. Bio-data of the processing personnel showing required experience and expertise **must be submitted with bid document as well as before mobilization.**
- viii. The requirement of detailed processing of the services is given in Table-2. The processed data should be submitted both in hard copies (two sets) and soft copies (one set). The scale of the hard copies should

be as per industry standard. Processed output (digital data) should be of LAS/LIS/DLIS to be submitted in DVD. Soft copy of the reports, figures, processed log etc. should be presented in PDF/Tiff or similar format and should be submitted in DVD.

- ix. In case of processing where second opinion is required for interpretation, the same must be made available by the contractor from their other bases in India/abroad. Company will not provide equipment (viz. licensed satellite/Electronic media/Landlines etc.) necessary to transmit data to and from its Computer Center. Data transmission will be the responsibility of the Contractor.

**2.6 Provision for Back-Up Tools & Services:** The contractor may choose to keep extra tools as back-up in order to provide un-interrupted service. Such tool(s) need to be inspected for acceptance by the Company before deployment for any job. However, OIL will not pay any charges for such back-up tools.

**2.7 Experience of Logging Engineer:**

- i. The contractor has to provide logging engineer(s) and crew for each of the units (Unit-1, Unit-2 & Unit-3) separately.
- ii. The personnel provided for carrying out wireline logging, perforation and other associated operation must be competent, qualified and trained in specific line of operations.
- iii. The logging engineer(s) deployed must have at least three years relevant experience of carrying out wireline logging and perforation and related services as specified in Bid Document. He must be able to handle independent assignments and must have logged at least 10 wells in an independent capacity in earlier assignments on the bid closing date.
- iv. The logging engineer(s) for each unit is to be based at Duliajan or any designated base camp site where the unit is deployed.
- v. Detail bio-data of the logging engineer and the crew personnel including their experience must be submitted to OIL at the time of bidding as well as before mobilization in Proforma vide Annexure-E.
- vi. The Contractor may keep additional Logging Engineer(s) at their own cost to effectively carry out the job.

**2.8 Vintage of Equipment, Units & Tools:**

- i. All the unit must be State of the Art (latest version of Full Maxis 500, LOGIQ, ECLIPS or equivalent) capable of running all the tools and services under the Contract. Down hole tools must be of recent generation must have down hole digitization for service code-A-1, A-2,

A-3, A-4, A-5, A-6, A-9, A-19, A-20, S-1, S-2, S-3, S-4, S-5, S-6, S-8, S-9 as detailed in Table-1 (of Part-3, Section II).

- ii. Units/tools/equipment deployed / to be deployed can be replaced by their latest upgrade / new version at the same rates, terms and conditions of the Contract after approval of OIL to that effect subject to the condition that they meet or exceed the Contract specifications and performances.
- iii. All Tools, Equipment and Unit required for the services should be of latest version and should not be more than 5 years old as on the bid closing date.

**3.0 TENTATIVE VOLUME OF SERVICES:** For the purpose of computation of operating and Data Processing / Interpretation charges, the broad assessment of number of jobs envisaged for the **Four years** proposed contract period are given in **Table-4(a) & 4(b)** below:

**TABLE - 4(a)**

**TENTATIVE VOLUME OF JOBS FOR SERVICES UNDER LOGGING UNIT - 1, LOGGING UNIT - 2, LOGGING UNIT - 3**

Sl. No.	OIL's Code	Service Description	No. of tools / services required	Tentative No. of jobs		
				Logging Unit-1	Logging Unit-2	Logging Unit-3
1	A-1	Dual latero log (deep and medium focused laterolog resistivity) services with spontaneous potential)	3	45	45	10
2	A-2	Invaded Zone Resistivity for Rxo measurement with borehole caliper	3	45	45	10
3	A-3	Dual Spaced Compensated Neutron Services	3	40	40	10
4	A-4	Formation Density & Photo Electric Absorption Cross Section Measurement Services	3	40	40	10
5	A-5	Natural Gamma ray services.	3	125	125	30
6	A-6	Gamma ray Spectroscopy Services	3	30	30	10
7	A-7	Percussion Type Side Wall Core Sampling Gun Services with Gamma Ray Positioning	3	25	25	10

Sl. No.	OIL's Code	Service Description	No. of tools / services required	Tentative No. of jobs			
				Logging Unit-1	Logging Unit-2	Logging Unit-3	
8	A-8	Stuck up Detection and Back-off Services. i) Stuck up detection ii) back-off	3	20 5	20 5	10 5	
9	A-9	Borehole deviation survey services	3	25	25	20	
10	A-10	Downhole Tension Services.	3	200	200	40	
11	A-11	i) Cement Bond evaluation services including variable density type of logging	3	80	80	20	
		ii) Borehole compensated sonic service		20	20	10	
12	A-12	a) Bridge plug Setting	3	50	50	10	
		b) Retainer Packer Setting	3	30	30	5	
		c) Junk Basket	3	50	50	5	
13	A-13	Retrievable and Semi-expandable Through Tubing perforation	3	65	65	15	
14	A-14	Casing gun perforation usable with standard and deep penetration charges.	3	25	25	5	
15	A-15	Casing Collar Locator Services (CCL)	3	90	90	20	
16	A-16	Shooting Gamma Ray Services					
		i) Through Tubing Perforations	3	60	60	5	10
		ii) Casing Gun Perforations	3	20	20	5	10
17	A-17	Tubing, Drill Pipe, Casing cutting and Drill collar severing/colliding services Using explosive jet cutter & severing tool	3	20	20	10	20
18	A-18	Puncture services for 2.7/8" OD tubing to 5 " OD drill pipe	3	10	10	5	6
19	A-19	Dipole Shear Sonic Imager	1	70			
20	A-20	Acoustic Scanning Tool For Cement Evaluation and Pipe Inspection	1	150			

Sl. No.	OIL's Code	Service Description	No. of tools / services required	Tentative No. of jobs		
				Logging Unit-1	Logging Unit-2	Logging Unit-3
21	S-1	Triaxial Borehole Seismic services for vertical seismic profiling (VSP) with energy source, surface equipments and accessories	2	10	10	
22	S-2	Nuclear Magnetic Resonance	2	15	15	
23	S-3	Tool for high resolution bore hole imaging services using microelectric arrays	2	25	25	
24	S-4	Dynamic Formation Testing Services with Pump Out Module and optical/Resistivity Based Fluid Analyzer and Fluid samplers	2	20	5	
25	S-5	Through tubing reservoir monitoring tool	1	50		
26	S-6	High Resolution Array Induction service	1	20		
27	S-7	i) Through Tubing Bridge Plug for 5.1/2" casing	1	20		
		ii) Through tubing cement dump bailer	1	20		
28	S-8	Production Logging Tool Stack Services	1	20		
29	S-9	Through tubing slim cement bond evaluation service	1	20		
30	S-10	Pipe Conveyed Wire line Logging Services	2	10	5	
31	S-11	Motorized tractor service	1	10		
32	S-12	Tubing Conveyed Perforation Services	2	12	10	
33	S-13	Elemental Capture Spectroscopy logging (ECS/GEM or equivalent)	1	20		
34	TR-5	Data transmission	2	10	10	

**TABLE - 4 (b)**

**TENTATIVE VOLUME OF JOBS FOR DATA PROCESSING SERVICES**

Service Code	Service	Post Processed data requirements	Tentative job volume	
			Unit - 1	Unit - 2
PA-19	Shear sonic imager (for data acquired by Service A-19)	i) Compressional, Shear (both X & y direction) and stoney slowness with integrated travel time, Vp/Vs	35	35
		ii) Geo - mechanical properties viz. young, shear and bulk modulus, poison's ratio	35	35
		iii) Evaluation of formation anisotropy, anisotropy map	25	25
		iv) Borehole stability analysis and prediction of safe mud weight window.	10	10
		v) Permeability from Stoneley & Stoneley fracture identification	10	10
		Geo-Mechanical Modeling as stated in table-2	4	2
PA-20	Acoustic Scanning Tool For Cement Evaluation and Pipe Inspection (for data acquired by Service A-20)	Processing/QC of data of Acoustic Scanning Tool for i) Azimuthal mapping of Casing to cement bond, Micro-annulus, Casing ID/OD for pipe corrosion  ii) Report on the cement bond, Micro-annulus, pipe corrosion etc.	35	35
PS-1	Triaxial Borehole Seismic services (For data acquired by Service S-1)	i) Processing of Borehole Seismic Services (average 100 levels per job) - Vertical well	5	5
		i) Processing of Borehole Seismic Services (average 100 levels per job) - Deviated well	5	5
PS-2	Nuclear Magnetic Resonance (for data acquired by Service-S-2)	i) Determination of total and effective porosity, capillary and clay-bound water & free fluid volume, pore size distribution, permeability.	25	25
		ii) Hydrocarbon typing and quantification	10	10

Service Code	Service	Post Processed data requirements	Tentative job volume	
			Unit - 1	Unit - 2
PS-3	Tool for high resolution bore hole imaging services using micro-electric arrays (For data acquired by Service S-3)	i) Processing of data for Static and dynamic image, image enhancement for structural, sedimentological study.	25	25
		ii) Structural analysis from dip and image data (Using Interactive Dip Picking) for presence of fault fracture and other structural features and their nature etc.	25	25
		iii) Sedimentological analysis from dip and image data (Using Interactive Dip Picking) for identification of beds, bedding internal structure like cross laminations, broad depositional environment indicated integrating other basic log data of same well as well as the available neighbouring wells.	25	25
		iv) Automatic dip picking.	5	5
PS-4	Dynamic Formation Testing Services (for data acquired by Service S-4)	Processing of Pretest data for identification of fluid pressure gradient, fluid contacts, permeability etc.	20	5
PS-5	Through tubing reservoir monitoring tool (for data acquired by Service S-5)	Processing of data of through Tubing Reservoir Monitoring Services (inelastic & sigma mode) to evaluate	50	
		i) <b>hydrocarbon saturation behind casing, identify</b> fluid contacts, porosity estimation, identification of mineralogy ii) Water flow velocity re-computation from acquisition data including manual picking of water velocity.		
PS-8	Production logging services	Production Log Edit for Depth Matching and reporting, multi-phase hold-up diagnosis any kind of interpretation related to acquisition mode.	20	

Service Code	Service	Post Processed data requirements	Tentative job volume	
			Unit - 1	Unit - 2
PS-13	Elemental Capture Spectroscopy logging (for data acquired by tool code S-13)	Lithology from Elemental Capture Spectroscopy from corrected clay model and dry weights. Determination of Silicon, calcium, Iron, Gadolinium, Titanium, mica feldspar composite and other minerals for accurate clay volume estimation and clay typing. Output should be in PDS/Tiff/PDF & LAS file.	20	
P-Basic	Basic log interpretation	Basic log Interpretation (probabilistic method viz. ULTRA or ELAN Plus or equivalent) for lithology/ mineralogy, effective & total porosity, permeability, fluid saturation & fluid type from log data acquired by the contractor or by a third party including in-house logging services .	20	

**3.1 NOTE ON TABLE - 4(a), 4(b) :**

- i) The number of jobs indicated above is for purpose of estimation of the Contract cost only and payment shall be made based on the actual number of jobs performed during the contract period.
- ii) Unless otherwise stated bridge plugs and packers will be supplied by OIL. Contractor has to provide necessary adapter kits for plug /packer setting.
- iii) Through tubing bridge plugs and necessary adapter kits shall be provided by Contractor. Cement for dumping using through tubing cement dump bailer on bridge plug is to be provided by contractor.
- iv) In Table -4(b), though no processing job has been shown for Unit-3, as the tool swapping provision is available, a few data processing jobs may need to be carried out of data acquired through Unit-3.

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**INFORMATION OF OIL'S OILFIELDS IN NORTH - EAST INDIA**

The detailed information of the oilfields is as follows:

- i) **Wells**: Wells are vertical (1-2<sup>o</sup>) and deviated (S-bend or J bend, maximum angle of deviation 45<sup>o</sup>) and Horizontal. Normal hole size for open-hole logging are 17<sup>1</sup>/<sub>2</sub> inch, 12<sup>1</sup>/<sub>4</sub> inch & 8<sup>1</sup>/<sub>2</sub> inch. However, logging will need to be carried out in smaller holes of size 6 inches also. Generally, depth of the wells ranges from about 2500 m to 5000m. However there are plan to drill two to three wells with target depth of 5600m. Presently horizontal wells are completed with 4.1/2 inch slotted liners and length of the horizontal section is about 400 m.
- ii) **Temperature & Pressure**: The bottom hole temperature of the wells drilled so far varies between 190 degree F to 252 degrees F. The formation pressure of the deep Eocene wells is likely to be 45 kg/cm<sup>2</sup> above the hydrostatic.
- iii) **Mud System**: Commonly used mud system are Bentonite Barytes fresh water / XC-Polymer-PAC mud system.
- iv) **Formation water salinity**: Miocene reservoirs: 1000-3000 ppm  
Oligocene reservoirs: 2500-3500 ppm  
Eocene reservoirs: 3500-5000 ppm  
However, higher salinity up to 10000 ppm in Oligocene and Eocene reservoirs has also been encountered.
- v) **Casing Grade**: 5.1/2 inch N-80 casing (17 & 20 lbs/ft) is commonly used in 95% of the wells as oil-string. However, 7 inch N-80 casing (29-32 lbs/ft) and higher grade casing (P-110) have also been used in a few wells. Normally a 3 to 4 stage casing policy is followed in most of the wells.
- vi) **Type of Workover Fluid and Density**: Sodium chloride solution treated fluid and weight with CMC, cutch and dichromate. Normal weight is 63 lbs/cft. However, in some cases higher density salt solution has been used. Potassium Chloride and sodium format solutions have also been used. Calcium Bromide and Zinc Bromide solutions have not been used so far.
- vii) **Perforations**: Normal tubing size- 2.7/8" (N-80, J-55). Both through tubing (2<sup>1</sup>/<sub>8</sub> inch & 1<sup>11</sup>/<sub>16</sub> inch guns) and casing (3<sup>3</sup>/<sub>8</sub> inch, 4 inch & 5 inch guns) perforations are carried out. In both these cases shot density of 4 shots/ft as well as 6 shots/ft perforations are carried out. Occasionally perforation in 9<sup>5</sup>/<sub>8</sub> inch casing, specially in shallow formation water disposal wells and wells with prospects behind 9<sup>5</sup>/<sub>8</sub> inch casing have to be carried out. There are plans to use tubing conveyed perforations with large entry holes (for gravel packing) and deep penetration charges for perforation in wells with large skin. In gas-lift wells slim 1<sup>11</sup>/<sub>16</sub> inch guns has been used to perforate under live conditions through 2 inch gas-lift mandrels and packer.

viii) **Identification of Flushed Zone, Residual Oil, and Presence of Hydrocarbon:** Flushed zone and residual oil bearing ranges are clearly seen in most of the cases with the help of resistivity log profiles in the Oligocene and thick Eocene sandstone reservoirs. However, this is difficult in case of :

- a) Thin sands of Eocene formations,
- b) Miocene sandstone reservoirs of the Jorajan oil-field. Carbon-oxygen log had been used in the past with satisfactory results to find out presence of residual oil/flushed zone and transition zone. TDT log had been found to be unsatisfactory in providing this information.

ix) **Workover Operation:** In workover operations the normal wire line logging services required are: Carbon-Oxygen/Pulsed Neutron Logging, CBL-VDL-GR-CCL, CAST-V/USIT, Neutron, Gamma ray, temperature, PLT, tubing/casing cutting, tubing puncture, retainer packer and bridge plug setting and perforations.

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## **ANNEXURE-B**

- 1. TECHNICAL SPECIFICATIONS:** The technical specifications of the tools/services required are given below (Annexure-B.1 to Annexure B.44).

### **NOTE**

**A:** All the Bidders must fill up the tables in Annexure-B.1 to Annexure B.38 below and declare their tool specifications against OIL's required specification for each service and mention compliance/non-compliance to OIL's required specifications.

**B:** If any bidder is quoting for tools on call (Optional) services (as listed in Table-3) should fill up the specification tables from Annexure-B.39 to Annexure B.47 for those tools they are quoting price (in addition to Annexure-B.1 to Annexure B.38)

**C:** Technical literature / brochures must be submitted in support of the required features of tools / equipments and the same must be referred with compliance/non-compliance declaration. If any required feature is not appearing in the technical literature / brochures, the bidder need to specifically confirm availability of the same feature with suitable reference. Bidder should indicate their offered feature including additional features where ever required.

**SERVICE: LOGGING UNIT**

Service Code : TR-1	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
1. The logging unit must be Heavy duty, Truck mounted integrated logging unit with state-of-the-art technology.		
2. The unit must be capable of carrying out all open hole, cased hole and pipe-conveyed logging and perforation services available with bidder upto a maximum depth of 6000 m in vertical and deviated hole.		
3. Unit must have latest version of surface recording system with printer and DVD writer. The system must have 100% redundancy (dual logging system) for central processor, power supply to tools, operating system software and data acquisition software.		
4. The unit must have Double drum/ split drum fitted with two cables: one 7 conductor and the other mono conductor.		
5. Each cable having length of 7000 m, with minimum rated breaking strength of 22,000 lbs for multi-conductor cable. The cable should be new, without splice at the time of initial deployment.		
6. The unit must have quick look Processing capability		
7. Facility to accurately measure mud cake & mud filtrate resistivity at site.		
8. The unit must have all miscellaneous requirements for carriage of tools, explosives, radioactive sources etc. required		

<b><u>ANNEXURE - B1</u></b>		
<b><u>SERVICE: LOGGING UNIT</u></b>		
to perform as per scope of work.		
9. The logging cabin must have seating place for the witness attending the logging job.		

<b><u>ANNEXURE - B2</u></b>		
<b><u>SERVICE: WELLHEAD CONTROL EQUIPMENT (BOP)</u></b>		
<b>Service Code: TR-2</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Wellhead Control Equipment (BOP) for Standard Logging Cable for its use in CBL under pressurized condition and for casing gun perforations: Rated 5 K psi.		

<b><u>ANNEXURE - B3</u></b>		
<b><u>SERVICE: PRESSURE CONTROL EQUIPMENT FOR THROUGH TUBING OPERATIONS</u></b>		
<b>Service Code: TR-3</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Pressure Control Equipment for Through Tubing Operations for slim cable-10 K psi		

<b><u>ANNEXURE - B4</u></b>		
<b><u>SERVICE: FISHING EQUIPMENTS</u></b>		
<b>Service Code: TR-4</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Fishing Equipment for all tools of each unit		

**ANNEXURE - B5**

**SERVICE: DATA TRANSMISSION AND COMMUNICATION**

Service Code: TR-5	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
Unit should have facility of data transmission by contractor's VSAT required for data transmission and receiving /downloading data at OIL's base while logging.		

**ANNEXURE - B6**

**SERVICE: DUAL LATERO LOG (DEEP AND MEDIUM FOCUSED LETEROLOG RESISTIVITY) SERVICES WITH SPONTANEOUS POTENTIAL**

Service Code: A-1	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
1. Deep and medium focused laterolog resistivity measurement of formation for simultaneous deep and shallow depths of investigation.		
2. Spontaneous potential measurements.		
<b>Depth of investigation:</b> LLD : 55-84 inches minimum LLS : 24-36 inches minimum		
<b>Range:</b> LLD: 0.2-40,000 ohm m LLS: 0.2-2,000 ohm m		
<b>Accuracy:</b> +/- 20 % at 0.2 ohm m +/- 5 % at 1-1000 ohm m +/- 10 % at 1000-2000 ohm m		
<b>Sampling rate:</b> Minimum 2 samples/ft		
<b>Vertical resolution:</b> 24 inches or better		
<b>Tool diameter:</b> Industry		

**ANNEXURE - B6**

**SERVICE: DUAL LATERO LOG (DEEP AND MEDIUM FOCUSED LETEROLOG RESISTIVITY) SERVICES WITH SPONTANEOUS POTENTIAL**

standard to log wells drilled with 6 inches to 17 <sup>1</sup> / <sub>2</sub> inch bit		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> Fully combinable with service A-2, A-3, A-4 etc.		
<b><u>Note: HRLA or equivalent tool will also be acceptable for Service A-1</u></b>		

**ANNEXURE - B7**

**SERVICE: INVADDED ZONE RESISTIVITY FOR RXO MEASUREMENT WITH BOREHOLE CALIPER**

Service Code: A-2	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
Invaded Zone Resistivity for Rxo measurement with borehole caliper		
<b>Investigation Depth:</b> 1 inch to 4 inches		
<b>Range:</b> 0.2-2000 Ohm m, Caliper- 6 inches to at least 20 inches		
<b>Accuracy:</b> i) <b>Resistivity:</b> : +/- 5% at 0.2 to 200 ohm m : +/- 10% at 200-2000 ohm m ii) <b>Caliper :</b> : +/- 10 % Accuracy		
<b>Sampling rate:</b> 4-10 samples/ft		
<b>Vertical resolution:</b> 1.0 inch or better		
<b>Tool diameter:</b> Industry standard to log wells drilled with 6 inches to 17 <sup>1</sup> / <sub>2</sub> inch bit		
<b>Temperature rating:</b> 300° F		

**ANNEXURE - B7****SERVICE: INVADED ZONE RESISTIVITY FOR RXO MEASUREMENT  
WITH BOREHOLE CALIPER**

Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> Fully combinable with service A-1		

**ANNEXURE - B8****SERVICE: DUAL SPACED COMPENSATED NEUTRON SERVICES**

<b>Service Code: A-3</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Formation porosity measurement using Dual Spaced Compensated Neutron Services		
<b>Investigation Depth:</b> 1.0-5.5 inches minimum		
<b>Range:</b> 0 to 60 PU (Limestone) with a linear response in 0-40 PU range.		
<b>Accuracy:</b> +/- 1 PU for 0-20 PU +/- 2 PU for 20-45 PU +/- 6 PU for 45 PU		
<b>Sampling rate:</b> 4-10 samples/ft		
<b>Vertical resolution:</b> Standard : 36 inch		
<b>Tool diameter:</b> Industry standard to log wells drilled with 6 inches to 17 <sup>1</sup> / <sub>2</sub> inch bit		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> i) Provision to record high resolution data.  ii) Provision to correct neutron		

**ANNEXURE - B8**

**SERVICE: DUAL SPACED COMPENSATED NEUTRON SERVICES**

porosity when recorded in cased hole.		
iii) Combinable with Service A-4.		

**ANNEXURE - B9**

**SERVICE: FORMATION DENSITY & PHOTO ELECTRIC ABSORPTION CROSS SECTION MEASUREMENT SERVICES**

Service Code: A-4	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
Tool to measure Bulk Density, Density Correction, Photo-electric Absorption Cross-section, caliper.		
<b>Depth of investigation:</b> 1.5-4.0 inches minimum		
<b>Range:</b> RHOB: 1-3 gm /cc, 0-10 PE		
<b>Resolution:</b> <b>Density:</b> +/- 0.01 gm/cc <b>PE</b> : +/- 5%		
<b>Accuracy:</b> <b>Density:</b> +/- 2% for 1.0-1.6 gm/cc : +/- 1.5% for 1.6-3gm/cc		
<b>Sampling rate:</b> 4-10 samples/ft		
<b>Vertical resolution:</b> Standard : 33 inches Enhanced Mode : 5.5 inches		
<b>Tool diameter:</b> Industry standard to log wells drilled with 6 inches to 17 <sup>1</sup> / <sub>2</sub> inch bit		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> i) Provision to record high sampling rate for high resolution		

**ANNEXURE - B9**

**SERVICE: FORMATION DENSITY & PHOTO ELECTRIC ABSORPTION  
CROSS SECTION MEASUREMENT SERVICES**

data through software control.		
ii) Resolution enhancement through post processing		

**ANNEXURE - B10**

**SERVICE: NATURAL GAMMA RAY SERVICE**

<b>Service Code: A-5</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Tool to measure total GR in API units using Scintillation counter (NaI Thallium activated)		
<b>Range:</b> 0 to 400 API, linear response from 0 to 200 API		
<b>Accuracy:</b> +/- 7% of the reading		
<b>Tool diameter:</b> Industry standard to log wells drilled with 6 inch to 17 1/2" bit		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B11**

**SERVICE: GAMMA RAY SPECTROSCOPY SERVICES**

<b>Service Code: A-6</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurements:</b> i) Total GR 0-1500 API  ii) U, Th, K concentration measurements separately		

**ANNEXURE - B11**

**SERVICE: GAMMA RAY SPECTROSCOPY SERVICES**

iii) Minimum 2 sample per ft		
<b>Tool diameter:</b> Industry standard to log wells drilled with 6 inch to 17 ½" bit		
<b>Range:</b> Minimum of : 0 to 400 API Total GR 0-40 PPM (U) 0-40 PPM (Th),		
<b>Accuracy:</b> +/- 5 % of measurement (GR) +/- 4 % PPM (U) +/- 3% PPM (Th) +/- 1.5 % (K)		
<b>Remarks:</b> Combinable with all standard tools		

**ANNEXURE - B12**

**SERVICE: PERCUSSION TYPE SIDE WALL CORE SAMPLING GUN SERVICES WITH GAMMA RAY POSITIONING**

Service Code: A-7	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<b>Measurements:</b> i) Side wall core recovery in soft, medium and hard formation.  ii) Depth positioning of SWC by Gamma ray.		
<b>Range:</b> Atl east 24 samples from single run extended upto 48 samples or more. Gamma ray positioning 0 to 200 API		
<b>Tool diameter:</b> Industry standard to recover side wall cores in wells drilled with 6 inch to 12 ¼ inch Bit.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi		

**ANNEXURE - B12****SERVICE: PERCUSSION TYPE SIDE WALL CORE SAMPLING GUN SERVICES WITH GAMMA RAY POSITIONING**

minimum		
<b>Other features:</b> Core sample should be minimum 1" dia with 1.5" length.		

**ANNEXURE - B13****SERVICE: STUCK-UP DETECTION AND BACK-OFF SERVICES**

<b>Service Code: A-8</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurements:</b> Percentage free in stretch and in torque (including log presentation) for tubing, casing and drill pipe.		
<b>Tool diameter:</b> Suitable for pipe sizes 2 7/8 inch to 9 5/8 inch Tubulars/casing		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> Should be run with CCL		

**ANNEXURE - B14****SERVICE: BOREHOLE DEVIATION SURVEY SERVICES**

<b>Service Code: A-9</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurements:</b> Bore hole deviation, hole azimuth, relative bearing		
<b>Range:</b> Hole deviation: 0-90°		

**ANNEXURE - B14**

**SERVICE: BOREHOLE DEVIATION SURVEY SERVICES**

Hole Azimuth: 0-360°, RB : 0-360°		
<b>Resolution/Accuracy:</b> Azimuth : +/- 2°, Deviation: +/- 2°		
<b>Tool diameter:</b> Industry standard to log wells drilled with 8 <sup>1</sup> / <sub>2</sub> , 12 <sup>1</sup> / <sub>2</sub> & 17 <sup>1</sup> / <sub>2</sub> inch bit		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE-B15**

**SERVICE: DOWNHOLE TENSION SERVICES**

<b>Service Code: A-10</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurements:</b> down hole tension and compression during logging		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B16**

**SERVICE: i) CEMENT BOND EVALUATION SERVICES INCLUDING VARIABLE  
DENSITY TYPE OF LOGGING  
ii) BOREHOLE COMPENSATED SONIC SERVICE**

<b>Service Code: A-11</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurements:</b> i) Cement Bond Evaluation		

**ANNEXURE - B16**

**SERVICE: i) CEMENT BOND EVALUATION SERVICES INCLUDING VARIABLE DENSITY TYPE OF LOGGING**  
**ii) BOREHOLE COMPENSATED SONIC SERVICE**

Surveys including variable density type of logging based on sonic arrival amplitude. Recording under pressurized condition is also required.		
ii) Delta T compressional (formation slowness) if used in openhole.		
<b><u>Range:</u></b> i) Acoustic amplitude 0-100 mv ii) VDL 200-1200 micro-sec iii) GR 0-200 API, CCL. Travel time.		
<b><u>Vertical resolution:</u></b> 2 feet or better		
<b><u>Tool diameter:</u></b> Suitable for 5 <sup>1</sup> / <sub>2</sub> , 7 and 9 <sup>5</sup> / <sub>8</sub> casing/liner for CBL/VDL and hole drilled with 8 <sup>1</sup> / <sub>2</sub> inch, 9 <sup>5</sup> / <sub>8</sub> inch bit for Delta T compressional.		
<b><u>Temperature rating:</u></b> 300° F Minimum.		
<b><u>Pressure rating:</u></b> 15000 psi minimum		

**ANNEXURE - B17**

**SERVICE: A) BRIDGE PLUG SETTING**  
**B) RETAINER PACKER SETTING**  
**C) JUNK BASKET**

<b>Service Code: A-12</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
a) Bridge plug setting, retainer packer setting for 5.1/2" OD to 9.5/8" OD casing.		

**ANNEXURE - B17**

**SERVICE: A) BRIDGE PLUG SETTING**  
**B) RETAINER PACKER SETTING**  
**C) JUNK BASKET**

b) Junk Basket for 5.1/2" OD to 9.5/8" OD casing		
<b><u>Tool diameter:</u></b> Industry standard to carry out in casing/liner sizes 5.1/2 inch, 7 inch & 9 <sup>5</sup> / <sub>8</sub> inch		
<b><u>Temperature rating:</u></b> 300° F Minimum.		
<b><u>Pressure rating:</u></b> 15000 psi minimum		
<b><u>Other features:</u></b> i) Necessary Adapter kit for the above services will be provided by the contractor.  ii) Combinable with CCL		

**ANNEXURE - B18**

**SERVICE: THROUGH TUBING PERFORATION**

<b>Service Code: A-13</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Through Tubing (for tubing of 2 <sup>7</sup> / <sub>8</sub> inches OD and ID of 2.44 inches) Perforation (guns of sizes 2 <sup>1</sup> / <sub>8</sub> inches with different shot densities, with standard and deep penetration charges.		
<b><u>Range:</u></b> i) <b><u>For Standard Charges-</u></b> shot density 4-6 shots per foot, with EHD minimum 0.26 inches and minimum penetration- 16 inches.  ii) <b><u>For Deep Penetration Charges-</u></b> shot density 4-6 shots		

**ANNEXURE - B18**

**SERVICE: THROUGH TUBING PERFORATION**

per foot with EHD minimum 0.30 inches and penetration minimum 27 inches.		
<b>Tool diameter:</b> Industry standard suitable for tubing sizes 2.7/8 inches.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> i) Should include surface equipment to perforate in under-balanced conditions and live wells.  ii) Suitable to be operated using Crane/mast unit also.		

**ANNEXURE - B19**

**SERVICE: CASING GUN PERFORATION USABLE WITH STANDARD AND DEEP PENETRATION CHARGES**

<b>Service Code: A-14</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Casing gun perforations with normal shot density and high shot density		
<b>Range:</b> i) With EHD of minimum 0.35 inch and penetration of minimum 21 inches for normal charges, and  ii) With EHD of minimum 0.35 inch and penetration of minimum 40 inches for deep penetration charges		
<b>Tool diameter:</b> Industry		

**ANNEXURE - B19**

**SERVICE: CASING GUN PERFORATION USABLE WITH STANDARD AND DEEP PENETRATION CHARGES**

standard for wells of 5 <sup>1</sup> / <sub>2</sub> & 9 <sup>5</sup> / <sub>8</sub> inch OD casing		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> i) Necessary Adapter kit for the above services will be provided by the contractor.  ii) Combinable with CCL		

**ANNEXURE - B20**

**SERVICE: CASING COLLAR LOCATOR SERVICES (CCL)**

<b>Service Code: A-15</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Casing Collar Locator (CCL) Services (Depth determination) for : a) Through tubing perforations b) Casing gun perforations.		
<b>Tool diameter:</b> Tool must be capable of running in through 2 <sup>7</sup> / <sub>8</sub> inch tubing and 5 <sup>1</sup> / <sub>2</sub> inch casing.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Others:</b> Combinability to all cased hole services.		

**ANNEXURE - B21****SERVICE: SHOOTING GAMMA RAY SERVICES**

<b>Service Code: A-16</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Shooting Gamma Ray Services for : i) Through Tubing Perforations ii) Casing Gun Perforations		
<b>Tool diameter:</b> Tool must be capable of running in through :  a) 2 <sup>7</sup> / <sub>8</sub> inch OD tubing, and b) 5 <sup>1</sup> / <sub>2</sub> inch OD casing		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B22****SERVICE: TUBING, DRILL PIPE, CASING CUTTING AND  
DRILL COLLAR SEVERING/COLLIDING SERVICES**

<b>Service Code: A-17</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>i) Explosive Jet Cutter for</b> 2 <sup>7</sup> / <sub>8</sub> inch OD tubing 5 <sup>1</sup> / <sub>2</sub> inch OD casing 7 inch OD casing 9 <sup>5</sup> / <sub>8</sub> inch OD casing		
<b>ii) Severing Tool for</b> a) 2 <sup>7</sup> / <sub>8</sub> inch SLH 90 drill pipe b) 4 <sup>1</sup> / <sub>2</sub> OD drill-pipe c) 5 inch OD drill-pipe d) 6 <sup>1</sup> / <sub>2</sub> inch OD drill collar e) 8 inch OD drill collar		
<b>Tool diameter:</b> Suitable for above service, minimum ID of drill pipe/collars is 1 <sup>1</sup> / <sub>2</sub> inch.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B23**

**SERVICE: PUNCTURE SERVICES FOR 2.7/8" OD TUBING  
TO 5 " OD DRILL PIPE**

Service Code: A-18	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
Services to puncture 2 <sup>7</sup> / <sub>8</sub> inch OD tubing to 5 inch OD drill pipe		
<b>Tool diameter:</b> Tool must be capable of running in through above tubulars.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - 24**

**SERVICE: SHEAR SONIC IMAGER**

Service Code: A-19	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<b>Measurements:</b> i) Delta T shear in cross dipole mode (fast slowness & slow slowness with direction)  ii) Delta T Stoneley  iii) Delta T Compessional		
<b>Hole size limit:</b> 6 inch to 17.5 inch dia.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> i) Minimum 2 sets of orthogonal dipole transmitter.  ii) Two dipole measurement for redundancy.		

**SERVICE: SHEAR SONIC IMAGER**

<p>iii) Direction measurement with anisotropy measurement in single run.</p> <p>vi) Measurement to compute absolute value of effective permeability from Stonely.</p> <p>v) Measurements to compute formation anisotropy, identification of fracture orientation, geomechanical property and borehole stability</p>		
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**SERVICE: ACOUSTIC SCANNING TOOL FOR CEMENT EVALUATION AND PIPE INSPECTION**

Service Code: A-20	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<p>360° evaluation of cement bonding with casing/liner, using ultrasonic signal / pulses.</p>		
<p><b><u>Measurements:</u></b></p> <p>i) Acoustic impedance image with resolution to distinguish, liquid, cement slurry behind casing.</p> <p>ii) Identification of cement channels or voids of width 1.25 inch or more.</p> <p>iii) Cement strength.</p> <p>iv) Mud attenuation and acoustic velocity</p> <p>v) Inside diameter and thickness of casing</p>		

**ANNEXURE - B25**

**SERVICE: ACOUSTIC SCANNING TOOL FOR CEMENT EVALUATION  
AND PIPE INSPECTION**

vi) Casing corrosion evaluation		
<b><u>Tool diameter:</u></b> Industry standard to log wells completed with 5, 5 <sup>1</sup> / <sub>2</sub> , 7 & 9 <sup>5</sup> / <sub>8</sub> inch casing/liner with high deviation upto 85°.		
<b><u>Temperature rating:</u></b> 300° F Minimum.		
<b><u>Pressure rating:</u></b> 15000 psi minimum		
<b><u>Other features:</u></b> Processed data is required to be provided at well site as a standard presentation along with field logs.		

**ANNEXURE - B26**

**SERVICE: TRIAXIAL BOREHOLE SEISMIC SERVICES FOR VERTICAL  
SEISMIC PROFILING (VSP) WITH ENERGY SOURCE, SURFACE  
EQUIPMENTS AND ACCESSORIES**

<b>Service Code: S-1</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<p>1. Tri axial data acquisition to provide high quality VSP compressional and shear event.</p> <p>2. At least five shuttle arrays to save measurement time, adjustable distance between shuttles from 10 meter to 20 metre or more</p> <p>3. Energy source (air gun)</p> <p>4. Surface equipment and accessories as required.</p> <p>5. Suitable for Data acquisition in cased hole and openhole</p>		
<b><u>Measurements:</u></b> Caliper, seismic stacks travel time v/s depth		

**ANNEXURE - B26**

**SERVICE: TRIAXIAL BOREHOLE SEISMIC SERVICES FOR VERTICAL SEISMIC PROFILING (VSP) WITH ENERGY SOURCE, SURFACE EQUIPMENTS AND ACCESSORIES**

plots and raw seismic traces of individual shots		
<b>Resolution:</b> +/- 1 m sec for shots at same level, +/- 2 m sec for shots fired in up and down passage on the same level		
<b>Hole size limit:</b> 6 inches to 17.5 inches diameter in openhole		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> Triaxial measurement data must be made available in SEG-Y		

**ANNEXURE - B27**

**SERVICE: NUCLEAR MAGNETIC RESONANCE LOGGING SERVICES**

<b>Service Code: S-2</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b><u>Measurements:</u></b> i) T2 distribution from 0.5 millisecond or less to 3.0 seconds.  ii) Formation lithology independent porosity, pore size distribution & permeability measurements.  iii) Free fluid index, clay & capillary bound fluids.  iv) Hydrocarbon typing and quantification in continuous/ stationary recording mode.		
<b><u>Vertical resolution:</u></b> 2 feet or		

better		
<b>Hole size limit:</b> 6 inch to 12.25 inch dia.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> NMR porosity, T2 distribution, free fluid index as well site product.		

<b><u>ANNEXURE - B28</u></b>		
<b><u>SERVICE: TOOL FOR HIGH RESOLUTION BORE HOLE IMAGING SERVICES USING MICRO-ELECTRIC ARRAYS</u></b>		
Service Code: S-3	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<p><b><u>Measurements:</u></b></p> <p>i) High resolution micro-resistivity based borehole imaging for formation image extraction with direction in open hole to characterize sedimentary bodies, sedimentary dips, structural analysis, secondary porosity evaluation, reservoir characterization etc.</p> <p>ii) At least 60% coverage in 8 inch hole in one pass.</p> <p>iii) Each caliper arm must have independent electronics.</p>		
<p><b><u>Measuring range:</u></b></p> <p>Micro resistivity : 0.2 to 2000 ohm m</p> <p>Azimuth : 0 to 360 degree</p> <p>Rotation : 0 to 360 degree</p> <p>Deviation : 0 to 90 degree</p> <p>Caliper : 6 to 16 inche</p>		
<p><b><u>Vertical resolution:</u></b> 0.2 inch in resistivity measurements.</p>		
<p><b><u>Hole size limit:</u></b> 6 inch to 17.5 inch dia.</p>		

**ANNEXURE - B28**

**SERVICE: TOOL FOR HIGH RESOLUTION BORE HOLE IMAGING SERVICES  
USING MICRO-ELECTRIC ARRAYS**

<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> One copy Static colour image as well site product in 1:20 scale.		

**ANNEXURE - B29**

**SERVICE: DYNAMIC FORMATION TESTING SERVICES WITH PUMP OUT  
MODULE AND RESISTIVITY BASED FLUID ANALYZER AND FLUID  
SAMPLERS**

<b>Service Code: S-4</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Dynamic formation testing and fluid sampling service with  1. Single probe with optical / resistivity based fluid analyzer.  2. Any number of pressure test in one run.  3. Formation and mud pressure with quartz pressure gauge, pressure gradient, flow rate and mobility.  4. Facility to collect two samples, non PVT 1000 cc each and two PVT samples of 450 cc or more each  4. Two PVT sample bottles  5. Pump out module with ability to control flow rate down hole while sampling.		

**ANNEXURE - B29**

**SERVICE: DYNAMIC FORMATION TESTING SERVICES WITH PUMP OUT  
MODULE AND RESISTIVITY BASED FLUID ANALYZER AND FLUID  
SAMPLERS**

<b><u>Resolution:</u></b> Quartz Gauge: 0.01 psi (0-15000 psi) SG : 0.1 psi (0-15000 psi)		
<b><u>Tool diameter:</u></b> Industry standard to log wells drilled by 8 <sup>1</sup> / <sub>2</sub> inch bit.		
<b><u>Temperature rating:</u></b> 300° F Minimum.		
<b><u>Pressure rating:</u></b> 15000 psi minimum		
<b><u>Other features:</u></b> Provision to provide mobility values at drill site and bring out gradient plots. Pre-test summary sheet with details of pretest data and as per format provided by company.		

**ANNEXURE - B30**

**SERVICE: THROUGH TUBING RESERVOIR MONITORING TOOL**

Service Code: S-5	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
1. Through tubing Reservoir monitoring tool (Carbon-Oxygen in captured and in-elastic mode) for tubing of 2 <sup>7</sup> / <sub>8</sub> inch OD (ID-2.44 inches).		
<b><u>Measurements:</u></b> i) Pulsed neutron decay sigma and porosity  ii) Pulsed neutron decay Ca/Si ratio and dual detector C/O, saturation measurement.  iii) Measurements to determine oil saturation in formation with		

**ANNEXURE - B30**

**SERVICE: THROUGH TUBING RESERVOIR MONITORING TOOL**

<p>low and unknown water salinity, identification of formation fluid contacts, measurement of formation porosity, identification of mineralogy and lithology.</p> <p>iv) Water velocity by oxygen activation principle for up and down flows behind pipes or inside casing in station mode</p>		
<p><b>Range:</b> 0.4 to 0.6 for Carbon/Oxygen .2 to 1.7 for Calcium/Silicon</p>		
<p><b>Tool Diameter:</b> Industry standard to log through tubing of size 2<sup>7</sup>/<sub>8</sub> inch OD (ID-2.44 inch)</p>		
<p><b>Temperature rating:</b> 300° F Minimum.</p>		
<p><b>Pressure rating:</b> 15000 psi minimum</p>		
<p><b>Other features:</b> i) To be able to log in flowing and static condition. To be able to log in inelastic capture mode, capture sigma mode, sigma modes.  ii) All run-time quality checks to be provided.</p>		

**ANNEXURE - B31**

**SERVICE: HIGH RESOLUTION ARRAY INDUCTION SERVICE**

<p><b>Service Code: S-6</b></p>	<p><b>Bidder's Code:</b></p>	
<p><b>OIL's Required Specifications</b></p>	<p><b>Bidder's Specification</b></p>	<p><b>Compliance/ Non-compliance</b></p>
<p>Induction based high-resolution formation resistivity measurement tool with seven or more induction Coil arrays.</p>		

**ANNEXURE - B31**

**SERVICE: HIGH RESOLUTION ARRAY INDUCTION SERVICE**

All array curves should be induction-based measurements only		
<b>Vertical Resolution:</b> 1, 2 and 4 ft Depth of investigation (from centre of borehole) 10" to 90" (50% of Integrated Radial response) – 10", 20", 30", 60" & 90" measurements		
<b>Measurement Range:</b> 1 to 1000 ohm-m Resistivity		
<b>Tool diameter:</b> Suitable for well 6 inches to 17 <sup>1</sup> / <sub>2</sub> inch diameter or more.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> Resistivity profiles at 10, 20, 30, 60 & 90 inch for 1, 2, 4 ft vertical resolution Combinable with nuclear porosity and spectral gamma ray tools.		

**ANNEXURE - B32**

- SERVICE:**    i) **THROUGH TUBING BRIDGE PLUG FOR 5<sup>1</sup>/<sub>2</sub> , 7 & 9<sup>5</sup>/<sub>8</sub> INCH CASINGS**  
                   ii) **THROUGH TUBING CEMENT DUMP BAILER FOR 5<sup>1</sup>/<sub>2</sub> , 7 & 9<sup>5</sup>/<sub>8</sub> INCH CASING**

<b>Service Code: S-7</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
1. Through tubing bridge pug setting tool with accessories for setting bridge plug in 5 <sup>1</sup> / <sub>2</sub> , 7 & 9 <sup>5</sup> / <sub>8</sub> inch casing.		

**ANNEXURE - B32**

**SERVICE:** i) THROUGH TUBING BRIDGE PLUG FOR 5<sup>1</sup>/<sub>2</sub>, 7 & 9<sup>5</sup>/<sub>8</sub> INCH CASINGS  
 ii) THROUGH TUBING CEMENT DUMP BAILER FOR 5<sup>1</sup>/<sub>2</sub>, 7 & 9<sup>5</sup>/<sub>8</sub> INCH CASING

2. Through tubing cement dump bailer tool for dumping cement on bridge plug.		
<b>Tool diameter:</b> To be capable of running through 2.7/8" tubing.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Other features:</b> The required plugs, adapter kits & Cement to be provided by the contractor		

**ANNEXURE - B33**

**SERVICE: PRODUCTION LOGGING TOOL STACK SERVICES**

Service Code: S-8	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<b><u>Measurements:</u></b> i) <b><u>Temperature measurement:</u></b> Platinum resistance thermometer with measurement range 5-150 deg C, resolution 0.01 deg or better, accuracy: +/- 1 deg.  ii) <b><u>Pressure measurement:</u></b> quartz gauge measurements upto 10 Kpsi, resolution 0.1 psi or better, accuracy: +/- 20 psi  iv) GR, CCL  iv) <b><u>Fluid velocity measurement:</u></b> a) Full bore spinner type flowmeter (0.5-100 rps), with		

**SERVICE: PRODUCTION LOGGING TOOL STACK SERVICES**

<p>indication of direction of measurements</p> <p>b) Diverted basket flowmeter for measurement of flowrate in low multiphase flows in vertical or deviated well at stations along the borehole with flowrate range 7 to 1000 bpd.</p> <p>v) <b>Density measurement:</b> Radioactive type fluid density measurement, range 0 – 1.3 gm/cc, resolution 0.01 gm/cc or better, accuracy +/- 0.05 gm/cc</p> <p>vi) <b>Hold up measurement</b> – capacitance or resistivity based</p>		
<p><b>Tool diameter:</b> Suitable for running through 2.7/8, 3.1/2 inch tubing into 4.1/2 inch, 5 inch, 5.1/2 inch, 7 inch, 9.5/8 inch casing/liners in wells upto 90 deg deviation.</p>		
<p><b>Temperature rating:</b> 300° F Minimum.</p>		
<p><b>Pressure rating:</b> 15000 psi minimum</p>		
<p><b>Other features:</b></p> <p>i) Must be capable to run with tractor in wells having deviation up to 90degree.</p>		

**SERVICE: THROUGH TUBING SLIM CEMENT BOND EVALUATION SERVICE**

<p align="center"><b>Service Code: S-9</b></p>	<p align="center"><b>Bidder's Code:</b></p>	
<p><b>OIL's Required Specifications</b></p>	<p><b>Bidder's Specification</b></p>	<p align="center"><b>Compliance/ Non-compliance</b></p>
<p>Through tubing cement evaluation tool (CBL-VDL) for evaluation of cement bond</p>		

**ANNEXURE - B34**

**SERVICE: THROUGH TUBING SLIM CEMENT BOND EVALUATION SERVICE**

between pipe to cement and cement to formation for 5", 5-1/2" & 7" liners/casings and to run through 2 1/2" tubing		
<b>Measurements &amp; Range:</b> Acoustic amplitude 0-100mv (3 ft T-R spacing)  VDL 200-1200 micro-sec (5 ft T-R spacing)  GR 0-200 API, CCL, Travel time (3 ft T-R spacing)		
<b>Tool diameter:</b> Suitable for 5, 5-1/2 & 7 inch liners/casings and to run through 2 1/2 inch tubing		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B35**

**SERVICE: PIPE CONVEYED WIRE LINE LOGGING SERVICES**

Service Code: S-10	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
Pipe conveyed wire line logging equipments (TLC/TPL or equivalent) with following minimum features:  i) Tool protection in holes with large and medium radius of curvature  ii) Mud circulation through drill pipe  iii) Multiple wet connections without tripping tools		

**ANNEXURE - B35**

**SERVICE: PIPE CONVEYED WIRE LINE LOGGING SERVICES**

<b>Tool diameter:</b> Industry Standard to log wells mostly drilled with 8-1/2 inches bit and cased with 5-1/2 inch casing		
Compatible for Deviated holes / horizontals (4 1/2 inch liner casing)		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B36**

**SERVICE: MOTORIZED TRACTOR SERVICE**

<b>Service Code: S-11</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
i) Motorized tractor service for dragging the tool down hole in high inclination and horizontal wells both in tubing & casing.  ii) Suitable for through 2 7/8, 3.1/2 & 4 1/2 inch tubing (Minimum hole size to pass through 2.4") to log in standard casing/ liner sizes.		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B37**

**SERVICE: TUBING CONVEYED PERFORATION SERVICES**  
**(3 3/8 INCH GUN: 6 SPF)**

<b>Service Code: S-12</b>	<b>Bidder's Code:</b>	
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**ANNEXURE - B37**

**SERVICE: TUBING CONVEYED PERFORATION SERVICES**  
**(3<sup>3</sup>/<sub>8</sub> INCH GUN: 6 SPF)**

<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Tubing conveyed perforation services using 3 <sup>3</sup> / <sub>8</sub> inch gun; 6 SPF with both  i) shoot and pull mechanism and ii) shoot and drop mechanism		
<b>Firing head:</b> Following type of firing head is required : i) Mechanical firing head ii) Hydraulic firing head		
<b>Range:</b> EHD of minimum 0.35 inches and penetration minimum 21 inches		
<b>Tool diameter:</b> To be capable of running through 5 <sup>1</sup> / <sub>2</sub> inch casing		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		

**ANNEXURE - B38**

**SERVICE: ELEMENTAL CAPTURE SPECTRSCOPY LOGGING**

<b>Service Code: S-13</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Measurements: Concentration of elements from single neutron induced Gamma ray spectrometer for the determination of Silicon, calcium, Iron, Gadolinium, Titanium, mica feldspar composite and other minerals for accurate clay volume estimation and clay typing.		
<b>Tool diameter:</b> To be capable of running in minimum 6 inch to max. 20 inch.		

**ANNEXURE - B38**

**SERVICE: ELEMENTAL CAPTURE SPECTRSCOPY LOGGING**

<b>Temperature rating:</b> 350° F Minimum.		
<b>Pressure rating:</b> 20000 psi minimum		

**ANNEXURE - B39**

**SERVICE: HIGH RESOLUTION LATEROLOG**

<b>Service Code: AD-1</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurement:</b> Formation resistivity with multiple depth of investigation (at least five), all array curve should be Latero based measurements only		
<b>Measurement Range:</b> 1 to 2000 ohm m Resistivity		
<b>Vertical resolution:</b> 12 inch or better		
Suitable for Hole size 6 to 16 inch		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 15000 psi minimum		
<b>Well site product:</b> 1. Resistivity profile at least at five depth of investigation with 1ft or better vertical resolutions.  2. RT, RXO, on site using 1-D inversion.  3. Raw array curves.		
<b>Combinability:</b> Combinable with AD-2, A-3, A-4, A-5.		

**SERVICE: COMPACT COMBO LOGGING TOOL (NEUTRON, DENSITY POROSITY, SHALLOW MICRO RESISTIVITY, GAMMA RAY AND CALIPER WITH COMPACT HIGH-RESOLUTION INDUCTION)**

Service Code: AD-2	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<p>The combo string must consist of following parts:</p> <p><b>Part-1)</b> Compact Neutron-Density - GR - microresistivity &amp; caliper</p> <p><b>Part-2)</b> Laterolog resistivity</p>		
<p><b><u>Measurements:</u></b></p> <p>1. GR with measurement range 0-300 API</p> <p>2. Fully compensated &amp; speed corrected formation density with measurement range 1.65gm/cc to 3.00 gm/cc</p> <p>3. Photo-electric factor</p> <p>4. Dual spaced Neutron porosity with measurement range 0-60pu.</p> <p>5. Microresistivity and induction based Resistivity with measurement range 0.2-2000 ohm m.</p> <p>6. Shallow and deep laterolog measurement with depth of investigation 50 inch or above for deep measurement.</p> <p>7. Caliper with measurement range 6-16 inch.</p>		
<p><b><u>Total length:</u></b> Total length of the combo (Part-1 plus Part-2) should not be more than 15m.</p>		
<p><b><u>Vertical resolution :</u></b> GR= 24 inches ,</p>		

**ANNEXURE - B40**

**SERVICE: COMPACT COMBO LOGGING TOOL (NEUTRON, DENSITY POROSITY, SHALLOW MICRO RESISTIVITY, GAMMA RAY AND CALIPER WITH COMPACT HIGH-RESOLUTION INDUCTION)**

Resistivity 24 inches or better, Bulk Density - 18 inches or better Neutron porosity- 12 inches		
Suitable for Hole size 6 to 12 <sup>1</sup> / <sub>4</sub> inch		
<b>Temperature rating:</b> 300° F Minimum.		
<b>Pressure rating:</b> 10000 psi minimum		
Part-1 of tool stack should be combinable with item Part-2		
<b>Well site Product:</b> i) Raw array curves ii) Coherence map of arrays iii) Invasion images v) Mud filtrate volume computation vi) Rt, Rxo, D1 & D2 where D1 is flushed zone diameter and D2 is invaded zone diameter vii) TVD log		

**ANNEXURE - B41**

**SERVICE: 3D SONIC SCANNER**

<b>Service Code: AD-3</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Measurement requirements:</b> i) Compressional, dipole-shear and stoneley DT  ii) Should have at least 13 levels of receiver waveforms with at least 8 receivers at each level.  iii) Capable of recording multiple frequency in the same pass by firing "Chirp Drive" firing mode,		

**SERVICE: 3D SONIC SCANNER**

<p>hence eliminating multiple passes and saving rig time.</p> <p>iv) Radial profiling capability to identify drilling induced formation damage and damage thickness.</p> <p>v) Acquire BESS-BCS services in the same trip.</p> <p>vi) Identify formation anisotropy with direction, fracture orientation for oriented perforation for increased productivity.</p> <p>vii) Recording of above in cased hole mode</p> <p>viii) Evaluation of cement bond behind casing independently while running in cased hole</p>		
<p><b><u>Vertical resolution:</u></b></p> <p>i. Standard &lt;1.82m (6 ft) processing resolution for 15.24cm (6in) sampling rate</p> <p>ii. High resolution &lt;2 ft</p>		
<p><b><u>Accuracy:</u></b></p> <p>i. <b><u>DT:</u></b> &lt;6.56 <math>\mu\text{s}/\text{m}</math> [2 <math>\mu\text{s}/\text{ft}</math>] or 2% up to 35.6-cm [14-in] hole size</p> <p>ii. <b><u>DT:</u></b> &lt;16.40 <math>\mu\text{s}/\text{m}</math> [5 <math>\mu\text{s}/\text{ft}</math>] or 5% for &gt;35.6-cm [14-in] hole size</p>		
<p><b><u>Depth of investigation:</u></b> 3 times borehole dia</p>		
<p>Sampling rate: 6 inch</p>		
<p><b><u>Range:</u></b></p> <p>i. Standard Shear slowness &lt;4927<math>\mu\text{s}/\text{m}</math> (1500 <math>\mu\text{s}/\text{ft}</math>)</p> <p>ii. Compressional slowness &lt;987<math>\mu\text{s}/\text{m}</math> (350 <math>\mu\text{s}/\text{ft}</math>)</p>		

**SERVICE: 3D SONIC SCANNER**

iii. Stoneley slowness <math> < 3937 \mu\text{s}/\text{m}</math> (1500 $\mu\text{s}/\text{ft}$ )		
<b>Tool diameter:</b> 3.365 inch OD		
<b>Temperature rating:</b> 350° F Minimum.		
<b>Pressure rating:</b> 20000 psi minimum		
<b>Other features:</b> Capable of logging in deviated wells with inclination upto 90°.		
<p><b>Post processed data:</b>  <b>contractor has provide following post processed data without any extra cost to company:</b></p> <p>a) Compresional, Shear (both X &amp; Y direction) and stonely slowness with integrated travel time, Vp/Vs.</p> <p>b) All answer product relevant to acquisition mode of service AD-3 (3D sonic scanner) such as Radial and Axial Profiling, Completion Plus (Dipole Radial Profiling), Fracture Analysis, Rock Mechanical Properties including young, shear and bulk modulus, poisson's ratio etc., stress analysis, evaluation of formation anisotropy, anisotropy map, Mobility &amp; Permeability from stoneley (also cement bonding while recorded in cased hole).</p>		

**ANNEXURE - B42**

**SERVICE: SLIM CASED HOLE FORMATION RESISTIVITY**

<b>Service Code: AD-4</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b><u>Essential capabilities:</u></b> i) Tool should be capable of measuring formation resistivity through casing and cement.  ii) Can be run both through tubing as well as in normal condition.		
<b><u>Vertical resolution:</u></b> 4 feet		
<b><u>Depth of investigation:</u></b> 32 ft		
<b><u>Range:</u></b> 1-100 ohm m		
<b><u>Tool diameter:</u></b> Suitable to run through tubing of size 2.7/8 inch OD (ID-2.44 inch) Tool Should be capable of measuring resistivity in casing size of 2.178" to 7" casing.		
<b><u>Temperature rating:</u></b> 300° F Minimum.		
<b><u>Pressure rating:</u></b> 15000 psi minimum		
<b><u>Other features:</u></b> Capable of logging in deviated wells with inclination upto 70°.		

**ANNEXURE - B43**

**SERVICE: CASED HOLE FORMATION DENSITY AND CASED HOLE FORMATION POROSITY SERVICES**

<b>Service Code: AD-5</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
Combo tool to measure formation density and neutron porosity in cased hole/openhole.  <b><u>Density:</u></b> Must take care of Casing and Cement thickness		

**SERVICE: CASED HOLE FORMATION DENSITY AND CASED HOLE FORMATION POROSITY SERVICES**

<p><b><u>Porosity:</u></b> Must take care of Casing standoff, formation characteristics and Cement thickness</p>		
<p><b><u>Vertical resolution:</u></b>  <b><u>Density:</u></b> 18" or better  <b><u>Porosity:</u></b> 14" or better</p>		
<p><b><u>Range:</u></b>  <b><u>Bulk density:</u></b> 2.0 to 3.0 gm/cm<sup>3</sup>  <b><u>Porosity:</u></b> 0 to 60 p.u. or better</p>		
<p><b><u>Accuracy:</u></b>  <b><u>Density:</u></b> 0.05 gm/cc or better  <b><u>Porosity:</u></b> ± 15 % or better</p>		
<p><b><u>Depth of investigation:</u></b>  <b><u>Density:</u></b> 6 inch or better  <b><u>Porosity:</u></b> 7 inch or better</p>		
<p><b><u>Tool diameter:</u></b> Suitable for running through 7, 9<sup>5</sup>/<sub>8</sub> &amp; 13<sup>3</sup>/<sub>8</sub> inch casing/ liner</p>		
<p><b><u>Temperature rating:</u></b> 260° F Minimum.</p>		
<p><b><u>Pressure rating:</u></b> 10000 psi minimum</p>		
<p><b><u>Other features:</u></b>  <b><u>When run in cased hole :</u></b>  1) Depth Matching and Normalization of CHFD data   2) Depth Matching and Normalization of Cased Hole Porosity data  <b><u>When run in open hole :</u></b>  Depth matching and open hole porosity including epithermal porosity and density data when run in open hole.</p>		

**SERVICE: NUCLEAR MAGNETIC RESONANCE LOG - MULTIPLE DEPTHS OF INVESTIGATION**

Service Code: AD-6	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<p><b>Measurement requirements :</b></p> <p>i) Simultaneous multiple (minimum four) depths of investigation</p> <p>ii) Fluid distribution from four depths of investigation (1.5 inch to 4 inch) to give profile of saturation, distribution and formation damage</p> <p>iii) Give T2 distribution from 0.5 millisecond or less to 3 second, T1 distribution 0.5ms to 9 sec.</p> <p>iv) Formation lithology independent porosity and permeability measurements</p> <p>v) Free fluid Index</p> <p>vi) Permeability estimation</p> <p>vii) Pore size distribution</p> <p>viii) Any other measurements that the tool is capable of recording.</p>		
<b>Vertical resolution:</b> 7.5 inch		
<b>Accuracy:</b> Total NMR porosity 1 pu standard deviation, total free fluid porosity 0.5 pu standard deviation.		
<b>Depth of investigation:</b> Multiple (1.5 inch to 4 inch)		
<b>Tool diameter:</b> Suitable to log in minimum 6 inch to maximum 17 <sup>1</sup> / <sub>2</sub> inch diameter hole or more.		

**SERVICE: NUCLEAR MAGNETIC RESONANCE LOG - MULTIPLE DEPTHS OF INVESTIGATION**

<p><b>Temperature rating:</b> 300° F</p>		
<p><b>Pressure rating:</b> 20000 psi or more</p>		
<p><b>Other features:</b>          i) Well site product: NMR porosity, T2 distribution, free fluid index permeability estimation.           iii) Acquisition of data to obtain post processed answer product viz. Saturation Profiling, Hi-Resolution Processing, T1 Profiling, Fluid Characterization &amp; Multi-Depth Magnetic Resonance (MR) Output.</p>		
<p><b><u>Post processed data: contractor has provide following post processed data without any extra cost to company:</u></b>          All Answer Products Relevant to Acquisition Mode, such as radial profiling of fluid volumes and fluid saturations, direct hydrocarbon characterization in fresh, unknown or varying formation water resistivity, fluid characterization in low resistivity, low contrast and/or thin beds, thin bed evaluation from high vertical resolution measurements, continuous log of oil viscosity by depth, lithology independent porosity, T1 Profiling, Multi-Depth Magnetic Resonance (MR) Output etc.</p>		

**ANNEXURE - B45**

**SERVICE: MULTI-FINGER IMAGING CALIPER**

Service Code: AD-7	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<b>Measurements:</b> Tool should be capable of making highly accurate radial measurements of the internal diameter of tubing and casing strings. Tool should have 24 finger reading up to 4 ½" outer diameter strings and 40 readings above 4 ½" outer diameter strings.		
<b>Tool diameter:</b> Tool should be capable of survey casing/tubing from 1 ¾" to 7 ½" in size.		
<b>Vertical Resolution:</b> Tool should at least have a 0.11" vertical resolution.		
<b>Temperature rating:</b> 350° F Minimum.		
<b>Pressure rating:</b> 20000 psi minimum		

**ANNEXURE - B46**

**SERVICE: CASING PATCH TOOL**

Service Code: AD-8	Bidder's Code:	
OIL's Required Specifications	Bidder's Specification	Compliance/ Non-compliance
<b>Requirements:</b> Tool for remedial work such as isolating zones for water and gas shut off, modifying injection profiles and repairing casing etc.		
<b>Tool diameter:</b> Tools should have the capability to run through casing sizes of 5.1/2 and 7 inches and liner sizes of 5 and 7 inches.		
<b>Temperature rating:</b> 350° F Minimum.		
<b>Pressure rating:</b> 20000 psi minimum		

**SERVICE: STIM TUBE/STIM GUN SERVICES**

<b>Service Code: AD-8</b>	<b>Bidder's Code:</b>	
<b>OIL's Required Specifications</b>	<b>Bidder's Specification</b>	<b>Compliance/ Non-compliance</b>
<b>Requirements:</b> For well stimulation purposes using stim tube (2")/stim gun (3.1/8" to 4") charges along with Fast Gauge (High Speed Recorder).		
<b><u>Tool diameter:</u></b>		
<b><u>Temperature rating:</u></b> 350° F Minimum.		
<b><u>Pressure rating:</u></b> 20000 psi minimum		

**&&&&&**

**REQUIRED ENVIRONMENT CORRECTION CHARTS**

- I. **Resistivity Tool:**
  - a) Borehole correction charts for various resistivity tools e.g. deep, shallow, medium focused laterologs/induction logs
  - b) Shoulder-bed correction chart for deep and shallow resistivity logging tools.
  - c) Pseudo-geometric factor charts for laterolog tool. Charts for determining true resistivity invasion diameter and resistivity of flushed zone for a combination of deep, shallow and micro-resistivity tools (Latero and induction) for different borehole sizes.
  - d) Thickness correction charts for various resistivity logging devices.
  
- II. **Micro-Resistivity Tool :**
  - a) Mud cake and bore hole correction charts.
  - b) Geometric factor charts.
  
- III. Natural Gamma-ray tools: Bore-hole size, mud weight and tool size correction charts.
  
- IV. **Compensated Spectral Density Tool :**
  - a) Mud and gas filled bore-hole correction charts.
  - b) Correction curve for getting bulk density from log density values.
  - c) Porosity, lithology and matrix identification determination charts.
  - d) Density-sonic travel time cross plot for fresh salt water filled holes.
  - e) Density-neutron porosity cross-plots for fresh salt water filled holes.
  - f) Hydrocarbon correction charts.
  
- V. **Compensated Neutron Porosity Tools :**
  - a) Hole size, mud-cake thickness, mud weight, formation and mud salinity, stand off distance, pressure and temperature correction charts.
  - b) Equivalent chart for different lithologies.
  - c) Function format curve for converting count ratio into porosity.
  - d) Litho porosity cross-plots, neutron-porosity Vs density, Vs sonic travel time cross-plots for fresh and salt-water filled holes.
  - e) Correction charts for excavation effect for different lithologies.
  - f) Hydrocarbon correction charts.
  
- VI. Spectral natural Gamma-ray log tool : Mineral identification charts.
  
- VII. **Compensated Acoustic Logging Tool and Cement Bond Tool :**
  - a) Compaction correction charts, Charts for different lithologies, Delta T Vs porosity.
  - b) BL amplitude Vs Bond Index transformation and compressive strength chart.

VIII. **Production Logging Tool** :

- a) Charts for evaluating solution gas-oil ratio at bubble point pressure or bottom hole pressure at given gas gravity.
- b) Charts for formation volume factor down hole density at bubble point pressure.
- c) Charts for down hole/surface density ratio or surface/down hole gas-vol. Ratio.
- d) Spinner flow meter responses for high and low flow rates.
- e) Fluid density meter friction effect chart.
- f) Producing ratio charts.
- g) Bubble flow regime charts.

IX. **Environmental Correction Chart for other Tool**: Environmental correction chart for other tools mentioned in the scope of work are also required.

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## SECTION - III

### SPECIAL TERMS & CONDITIONS

#### 1.0 MOBILISATION :

The Mobilisation of the Unit(s) and the personnel shall commence from the date of receipt of the Letter of Award(LOA) issued by Company awarding the Contract. The details in regard to mobilisation of the units and their personnel are provided in Clause No. 2.0 of Section-I, General Conditions of the Contract.

#### 2.0 AREA OF OPERATION:

2.1 The area of operation for Logging Units 1 & 2 shall be in OIL's operational area in North East States of India. For Logging Unit-3, area of operation shall be OIL's operational area anywhere in India

2.2 The Unit-1 and Unit-2 with all services and crew will initially be based at Duliajan. The Unit-3 (additional unit), if mobilized, may need to be mobilized to Duliajan Base or any stipulated well site camp located at far flung areas/anywhere within OIL's operational area in India. The contractor shall be given a notice to demobilize Unit-3 upon completion of requirements.

2.3 Any one of the three units along with all necessary materials required to carry out logging job, on OIL's requirements, may require to be based at well sites in far flung areas where well site camps will be established.

#### 3.0 ASSOCIATION OF COMPANY'S PERSONNEL:

3.1 The Company may depute more than one representative to act on its behalf for overall co-ordination and operational management at location. Company's representative shall have 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; monitor the progress so as to ensure the 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.

3.2 There shall be free access to all the equipment of the Contractor during operations and idle time by Company's representatives for the purpose of observing / inspecting the operations performed by Contractor in order to judge whether, in Company's opinion, Contractor is complying with the provisions of the Contract.

#### 4.0 CONTRACTOR'S OBLIGATION:

4.1 The Contractor shall furnish full particulars of crews e.g. name, nationality, passport number, date and place of issue and expiry date of passport, father's name, date and place of birth, designation etc. along with recent photographs, 30 days before the start of activities.

4.2 The Contractor shall primarily and solely be responsible for obtaining customs clearance for importation into India of the Contractor's equipment,

spare parts, consumables, tools etc. in connection with the execution of the work. Any demurrage in this process will be at the Contractor's cost.

- 4.3 The Contractor shall arrange the clearance of all equipment, spare parts, consumables, tools from customs and port authorities in India and shall pay all requisite port fees, clearance fees, transit agent fees, inland transportation charges from port to site etc.
- 4.4 The Contractor shall furnish to Company details of all equipment, duration of deployment of each equipment, spares and consumables to be brought into India three (3) weeks in advance of the date of shipment. These details shall include **year of manufacture, date of purchase, name of manufacturer / supplier, make, model, serial number, specifications, country of origin**, duration of deployment etc. and should be in the format specified in Proforma – B.
- 4.5 The Contractor will be fully responsible for any unauthorized imports or wrong declaration of goods and will have to pay the penalty and other consequences as levied by the port/customs authorities for such unauthorized imports.
- 4.6 In the event of contractor's unit/tools/equipments are already available in India and operating for other operator, the necessary clearance from the earlier operator, DGH, Customs etc. should be obtained by contractor for transferring units/tools/equipments to the proposed contract before mobilizing the unit/tools/equipments.
- 4.7 The Contractor shall arrange for transportation of their equipment/tools/spares/consumables from Contractor's yard/site to Company's site and back at the end of the work at their own expenses.
- 4.8 The Contractor shall keep their equipment in good working order and shall begin the work with sufficient spares, consumables & explosives for minimum 6 months period (in accordance with the work load given in the Contract) and shall continuously replenish the same periodically to ensure uninterrupted services.
- 4.9 The Contractor will be required to provide the logging services round the clock as and when required by the Company.
- 4.10 Subject to Clause 6.0 of this Section, the Contractor shall bear all expenses on account of repair/replacement of all their equipment etc. consequent upon any damage/loss/non-performance during the course of operation.
- 4.11 The contractor must have adequate first aid arrangement in their units as well as at base camp to meet the needs of their own personnel.
- 4.12 The Contractor shall be bound by laws and regulations of Government of India and other statutory bodies in India in respect of use of wireless sets, maps, charts, entry regulations, security restrictions, foreign exchange, work

permits, customs & handling of explosives etc.

- 4.13 The Contractor shall bear all taxes & duties including road tax and insurance premiums for their vehicles brought to India or purchased in India including registration fees, fitness fees and road / goods taxes, pollution fees etc.including States entry taxes.
- 4.14 The Contractor shall bear all costs for transportation of their equipment and other materials including payment of Entry taxes during inter state transfer of their Unit(s), Tools, equipment, spare parts etc.
- 4.15 The Contractor shall use to the fullest extent all facilities available in India provided they are technically/operationally acceptable.
- 4.16 The Contractor, prior to commencement of contract shall submit a tool preventive maintenance system to exhibit that a pro-active / predictive system can be in place to avoid unforeseen down-time and submit monitoring report to the Company on monthly basis of such activities carried out by them.
- 4.17 The Contractor shall follow its own safety rules, in addition to rules prescribed under Indian Laws in this respect.
- 4.18 **Health Safety and Environment:** Contractor shall submit the safety manual and operating procedure manual well in advance to the Company for review and comments, if any. Contractor shall have to strictly follow all the HSE rules and regulations and follow safety rules practiced in a well-site and provide safety gears to their personnel. Logging Units must be fitted with safety equipment as per international practice. Contractor also needs to submit their Corporate HSE policy, highlighting the salient features to be followed in the well-sites. Safety gears viz. Shoes, Helmets, etc. must be replaced as per requirements.
- 4.19 **Pollution Control:** Contractor undertakes that substances or rubbish in any form originating from Contractor's equipment shall not be dumped or discharged at, or around the well location. However, in the event of such dumping or discharge by Contractor, Contractor shall immediately assume all responsibility at their cost for the removal of items, substances or rubbish so dumped or discharged and for any resulting pollution or contamination in any form, in the well location and the surrounding area.
- 4.20 The Contractor shall arrange all entry permits, Inner line Permits (ILP) etc. in respect of its staff deployed under the Contract. Company shall, however, issue necessary letters of authorization for obtaining I.L.P., if required, adequately in advance. Normally Contractor will request for issue of such letters at least three working days in advance.
- 4.21 The Contractor shall arrange for security of their camp sites, fly camps, equipment, establishment, radioactive materials and explosives etc. while in Contractor's custody at their own cost. However depending upon the

criticality of the situation, Company may provide security for movement of Contractors explosives, Radio Active sources, equipment and personnel on chargeable basis.

- 4.22 The equipment/tools to be furnished by the Contractor under this Contract is the Contractor's property and shall always remain in the possession of the Contractor with the exclusive right to use of such equipment/tools by the Contractor for providing services under this Contract.
- 4.23 The Contract price shall remain firm and fixed during the execution of the Contract and not subject to variation on any account.
- 4.24 The Contractor shall provide the experienced personnel for carrying out the services. All the personnel offered must have adequate experience (Ref. Section-I & II) in respective field and should be fluent in English language. On Company's request, Contractor shall remove and replace at their expenses, any of their personnel whose presence is considered reasonably undesirable or performance is found to be poor in the opinion of Company. The Contractor shall provide the supporting staff at their own expenses. Documentary evidence, identity cards etc. shall be submitted by the Contractor in support of the bio-data against which Company's representative will certify completeness of mobilisation of the Contractor for start of operations.
- 4.25 **FOOD, ACCOMMODATION, TRANSPORTATION & MEDICAL SERVICES :**  
The Contractor shall be responsible for, and shall provide for all requirements of their personnel, and of their sub-Contractor, if any, including but not limited to their insurance, housing, medical services, messing, transportation (both air and land transportation), vacation, salaries and all amenities, termination payment and all immigration requirement and taxes, if any, payable in India or outside at no charge to the Company.
- 4.26 The Contractor's representative shall have all 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.
- 4.27 The Company on request of the Contractor may consider providing housing /parking/office space /workshop for logging equipment /tools to Contractor for operational convenience of the Company, within the operational areas on as is where is basis subject to availability. Portable magazine for storage explosives will be provided by the Company. All the above mentioned facilities if provided by Company, shall be on chargeable basis at the rates as decided by the Company which shall be final and binding on the Contractor.
- 5.0 COMPANY'S OBLIGATIONS:**
- 5.1 The Company shall assist Contractor for arranging necessary entry permits, if required, for personnel belonging to Contractor and its 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.

- 5.2 The Company shall organise all possible help from local government/ administration to Contractor's personnel and equipment in case of natural disasters, civil disturbances and epidemics. Camp security personnel (chowkidars) etc. as well as all security for Contractor's personnel & equipment/ materials will be the responsibility of Contractor.
- 5.3 Company shall provide normal facilities at/around well-site at its cost to Contractor including but not limited to :
  - a) Water, Electric Power;
  - b) Crane/ forklift/Bulldozer usage, if required;
  - c) Radio/telephone communication facilities between well-site and Contractor's base.
- 5.4 Diesel may be provided by Company to the Contractor against specific request from Contractor in case of operational exigencies on chargeable basis subject to availability against.
- 5.5 In case Contractor's equipment and/or personnel are unable to get to well-site due to poor roads, bridges, culverts etc, Company shall help in transportation of Contractor's equipment and / or personnel to and from well site at its cost.
- 5.6 The Company shall provide Contractor with sufficient right of ingress to, egress from location/site/areas of operations required for the performance by Contractor of all works contemplated by this Contract.
- 5.7 For replacement due to loss/damage of tools to sub-surface equipment as per clause 7.0, Section-III hereunder, Company shall pay the customs duty, if applicable or issue Recommendatory Letter for availing zero customs duty.
- 6.0 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 Contractor or its sub-contractors, for loss or damage to the Contractor's or sub contractor's sub-surface equipment and the downhole property of Contractors or Sub-contractors in the hole below the Kelly bushing. Company shall at its option either reimburse the Contractor for the value of lost equipment/tools as declared in the import invoices at the time of mobilization (or subsequent replacement/addition) of the same equipment/ tools or CIF value as reflected in Proforma-B hereto whichever is lower (Plus customs duty paid by the contractor for the equipment tool lost/ damaged, provided that the said custom duty was not borne by the Company and contractor produces the documentary evidence towards payment of customs duty.) for any such loss or damage, less depreciation @3% per month from the date of commencement of this contract with a maximum depreciation

equivalent to 50% of CIF value as indicated by the Contractor or at its option replace similar equipment/tools to the satisfaction of the Contractor and any transportation expenses incurred in connection herewith. All such costs shall be payable by Company only after Contractor has produced documentary evidence that the particular equipment/tools in question was not covered by Contractor's insurance policies. For such claims Contractor should notify the Company within one month. The inspection of recovered equipment from down hole need to be done by Company representative before submission of the invoice by Contractor.

7.0 **MALFUNCTION OF EQUIPMENT /TOOLS:**

7.1 If any tool/equipment malfunctions and cannot be repaired at well-site or base within 24 hours resulting in Contractor's failure to provide the requisite services, the tool or equipment will be under zero fixed charges with effect from last date of successful logging operation with that tool or equipment until it is repaired or replaced and a surface check or logging operation with that tool is performed to OIL's satisfaction. However, recovery of fixed charges of failed tool or equipment for past period shall be restricted to a maximum one (1) month period prior to the date on which any malfunctioning /failure of the tool /equipment is noticed. If the contractor fails to complete any job due to malfunction/failure of the Logging unit(s)(Item TR-1), then rental for all the tools/equipments along with the Unit will be under zero fixed charges with effect from the last date of successful logging operation with that unit.

7.2 In case of malfunctioning of any tool, the Contractor will make good the Company the loss for idling of the rig @ **US \$ 600.00 per hour for logging operation to be carried out in drilling rig and @ US \$ 250.00 per hour for logging operation to be carried out in Work over rig**. However, the rig loss time on account of the following shall be attributable to Company's account and shall be excluded from computation of time for aforesaid recovery:

- a. Waiting for Company's instructions/weather conditions/HSE hazards / due to day break as per Company's requirement.
- b. Round trip due to deterioration of well condition resulting in held ups or tool stoppage or actual time spent in negotiating tool stoppage and hold up while running in or pulling out due to bad borehole conditions.
- c. Standby time due to radio silence during perforating operations.

8.0 **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.

**9.0 LOG INTERPRETATION:** Since all log 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.

**10.0 POLLUTION OR CONTAMINATION:**

10.1 The Company agrees that Contractor shall not be responsible for and Company shall indemnify and hold Contractor its agent, servants, officers and employees harmless from any liability, loss, cost or expense for loss or damage from pollution or contamination arising out of or resulting from any of Contractor's services/ operations unless such pollution or contamination is caused by Contractor's willful misconduct or gross negligence.

10.2 Notwithstanding anything to the contrary contained herein, it is agreed that Company shall release, indemnify and hold Contractor and its Sub-contractors harmless from any and all claims, judgments, losses, expenses and any costs related thereto (including but not limited to Court costs and 'Attorneys fees) for :

- a) Damage to or loss of any reservoir or producing formation
- b) Damage to or loss of any well
- c) Any other subsurface damage or loss, and
- d) Any property damage or loss or personal injury or death arising out of or in connection with a blowout, fire explosion and loss of well control regardless of cause.

**11.0 FISHING:** In case it is necessary for Company to "fish" for any of Contractor's instruments or equipment, Company assumes the entire responsibility for such operations. However, Contractor will, if so desired by Company and without any responsibility or liability on Contractor's part render assistance, if required, for the recovery of such equipment and/or instruments. None of Contractor's employees are authorized to do anything other than assist/advise and consult with Company in connection with such "fishing" operations, and any fishing equipment furnished by Contractor is solely as an accommodation to Company and Contractor shall not be liable or

responsible for a damage that Company may incur or sustain through its use or by reason of any advice or assistance rendered to Company by Contractor's agents or employees irrespective of cause.

**12.0 CUSTOMS DUTY :**

- 12.1 Company shall use the Logging 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.
- 12.2 Bidder should provide the list of items to be imported by them under the Contract in the format specified in Proforma-B along with their bid for issuance of Recommendatory Letter to DGH. Contractor shall make written request to Company immediately after shipment of the goods indicated by them in Proforma-B, 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.
- 12.3 All imports and import clearances under the contract shall be done by the contractor and OIL shall not provide any assistance in this regard.
- 12.4 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-B 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-B 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.

- 12.4.1 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.
- 12.5 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.
- 13.0 **DEMOBILISATION & RE-EXPORT** : The Contractor shall arrange for and execute demobilization of the entire Logging Units, 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 Logging Units, tools, its accessories/equipment, including the manpower and re-export of the complete Logging Unit (if re-exportable), 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 Logging units, tools, 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 the complete Logging Units, 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.
- 13.1 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.

- 13.2 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.
- 13.3 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.
- 14.0 MONTHLY FIXED CHARGES:** Monthly fixed charges for Units/tools/equipment/services etc. supplied would be applicable from the date it arrives at Duliajan and is certified by the Company's representative to be in readiness to undertake the operation/services, up to the date of demobilization/expiry of contract or till the date of de-hiring of any tools/equipments/services. No fixed charges shall be payable by Company during transit period to Duliajan (or any base camp for Unit-3) at initial mobilization and from Duliajan on demobilization.
- 15.0 MOBILISATION AND DEMOBILISATION OF EQUIPMENT:** Mobilization and Demobilization of the Contractor's equipment will be at Duliajan or any Company's designated base camp. The charges thereof include all transportation and other charges. Company will not take any responsibility for mobilization and demobilization including transit insurance of the equipment.
- 16.0 MOBILIZATION AND DEMOBILIZATION OF PERSONNEL:** All mobilization and demobilization charges for Contractor's personnel from Contractor's Base to Duliajan and back shall be to Contractor's account. These include but are not limited to air fares, travel expenses, accommodation charges, personal insurance etc. Company shall not be responsible for any charges in this regard whatsoever. Contractor's operating personnel shall be required to be mobilised at Duliajan or at Company's designated operational site.

**17.0 DE-HIRING OF TOOLS AND EQUIPMENT:**

17.1 **DE-HIRING FOR UNSATISFACTORY PERFORMANCE:** If the services of any tool or equipment mobilized is found to be unsatisfactory (not meeting the technical specification/requirements as per the Contract), the same shall be de-hired by giving a prior notice of 15 days in case the Contractor fails to remedy the defect in tool / equipment within 30 days of Company reporting, its dissatisfaction on its performance/capacity. No de-mobilization charges shall be payable by Company for such de-hiring.

17.2 **DE-HIRING DUE TO NON- REQUIREMENT:** During the contract period, if Company feels that the services of any Standard/Special Tools and tools on call (as listed in Table -1&3 in Section-II) are not required any more seeing the applicability Special tools/services, Company may de-hire such tool or equipments by giving notice to de-hire in one month advance.

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## SECTION - IV

### SCHEDULE OF RATES

**SCHEDULE OF RATES:** The rates and charges as indicated in **Price Proforma-A, A1, A2, A3, A4 & A5**. The rates are defined as under:

- 1.0 **MOBILIZATION CHARGES:** (Price Proforma- A1):
- 1.1 Mobilisation charge shall include all cost of mobilization of Standard Equipment/Tools/ Services, Special Equipment/Tools/services (Table-1 in Section-II), viz., Units, personnel, equipment, tools, spares, consumables, accessories to Duliajan or other base camp and shall include all foreign and local costs including port fees, port rent, any other customs clearance charges, inland transportation to Company's site, transit insurance, taxes and any other charges but excluding customs duty). In case of Special Equipment/Tools/services, mobilization charge will be paid only for those tools which have been advised for mobilization.
- 1.2 Mobilization charges will be payable after the date of commencement as certified by the Company.
- 1.3 Subsequent Interim Mobilization charge of Special Equipment/Tools/ services will be payable from the date it arrives at Duliajan or base camp where the Unit is mobilized and is certified by the Company's representative to be in readiness to undertake the operation/ services. Such charges are payable each time contractor mobilizes above category tool(s)/services on Company's request.
- 1.4 Mobilization charges for all the Units/Tools/Equipment/Services will be paid as per Price Proforma A1.
- 2.0 **DEMobilIZATION CHARGES:** (Price Proforma- A1)
- a) Demobilization charges for Standard Equipment/Tools/Services, Special Equipment/Tools/services (Table-1 in Section-II) will be payable when the assignment of works under this contract is concluded to the satisfaction of Company and completion of re-export of all the re-exportable items/equipments/tools.
- b) Demobilization charges shall include all charges towards de-mobilisation of Contractor's Standard Equipment/Tools /Services, Special Equipment/ Tools / Services (Table-1 in Section-II) & personnel from Company's site applicable from the date of issue of demobilization notice by Company to the Contractor till completion of re-export of all the re-exportable items.
- c) All charges connected with demobilization including transportation, insurance, fees, taxes and duties from the site to the place of origin of the equipment/tools/services/personnel including charges involved in Customs formalities for re-exporting to outside India will be to Contractor's account.

- d) Company shall give 10 days notice to Contractor to commence demobilization.
- e) Demobilization shall be completed by Contractor within 60 days of expiry / termination of the contract. Contractor will ensure that demobilization is completed within the aforesaid period. No charge whatsoever will be payable from the date of notice to demobilize.

3.0 **MONTHLY FIXED CHARGE: (Price Proforma- A1)**

Monthly fixed charges for Tools, equipment, manpower etc [Standard Equipment /Tools/ Services, Special Equipment/ Tools/services (Table-1 in Section-II) supplied would be applicable from the date it arrives at Duliajan and is certified by the Company's representative to be in readiness to undertake the operation/services, up to the date of demobilization/expiry of contract. No rental charges shall be payable by Company for transit period between the Contractor's base and Company's base at Duliajan or any other designated camp and vice-versa. Monthly charges for Special tools, which may be mobilized for a specific period as per Company's requirements, would be applicable from the date it arrives at Duliajan and is certified by the Company's representative to be in readiness to undertake the operation/services, upto the date of expiry of mobilization period/expiry of contract.

4.0 **OPERATING CHARGES: (Price Proforma- A2)**

Operating charges include the charges for Standard services & special services as shown in Price Proforma-A2.

5.0 **MILEAGE CHARGE : (Price Proforma-A)**

5.1 The per trip transportation charge as shown in Price Proforma-A (Sl. No.4), for transportation of tools/equipment /spares/consumables etc. shall apply for each round trip to work site from Contractor's base at Duliajan (or Base camp of far flung area).

5.2 For evaluation purpose, transportation charge for 180, 100 & 150 trips, with average 120 KM both ways in each trip will be considered for Unit-1, Unit-2 & Unit-3 respectively. However, payments will be made at actual kilometer travelled.

6.0 **STANDBY CHARGE: (Price Proforma-A)**

Standby charges on hourly basis as shown in Price Proforma-A (Sl. No. 5) shall be applicable for crew/engineer waiting at well-site due to non-readiness of the well for carrying out operations beyond 6 hours after the expected time of well handover.

7.0 **CANCELLED OPERATIONS CHARGE: (Price Proforma A)**

If operations are cancelled after crew and/or equipment mobilized to site, the charges if any, as shown in Price Proforma-A (Sl. No. 6) shall be applicable.

8.0 **INCOMPLETE OPERATIONS CHARGE: (Price Proforma A)**

If operations are cancelled after attempts to perform services and services

can not be completed due to adverse well conditions etc, the charges, if any, as shown in Price Proforma-A (Sl. No. 7) shall be applicable.

9.0 **DATA PROCESSING AND INTERPRETATION CHARGE:** Data Processing and Interpretation charges will be paid for each processing/interpretation service carried out as per advice of Company and will be payable item wise as per **Price Proforma-A3**.

10.0 **CUSTOMER INSTRUMENT SERVICE (CIS) CHARGE(Price Proforma A4) :** Customer instrument service will be payable as follows :

10.1 **For Contractor providing Unit/ Winch/Cable System:**

One CIS charge in addition to charges as per unit provider contract will be payable from rig up to rig down for arrangement. In addition 10% of CIS Charges will be payable for each run in the well (irrespective of outcome of the run) carried out by third party. Contractor will provide cable, winch system, well head system/assemblies and operate the winch to lower the tool through his cable/system. Contractor will also provide assistance in interfacing.

10.2 **For Contractor providing tool(s)/Services:**

One CIS charge will be payable from rig up to rig down, irrespective of number of tools, for arrangement in addition to rental, operating and other charges as per tool/service provider contract. In addition 15% of CIS Charges will be payable only for successful run of each tool. Additional equipments and specialist are to be provided by tool/service contractor for interfacing with third party Unit/ Winch/Cable System and operating the tool.

11.0 **Charges for shifting of Logging Unit from one base to another:** Charge for shifting of logging unit to well site camp or to other base camp/Duliajan from the place from original mobilization as per advise of Company, will be payable as per Price Proforma-A (Sl. No.10). However, for Logging Unit-3, if such shifting of base is made to/from OIL's operational area beyond NE India, cost of transportation of Unit, tools and equipments shall be paid on actual basis under negotiation.

12.0 **FORCE MAJEURE CHARGES:**

Upon occurrence of force majeure situation and if it satisfies the Force Majeure terms vide clause No. 11.0 of Section-I "General Terms & Conditions", the Force Majeure rate shall be applicable and contractor shall be paid by Company @50% of the normal rental charges for equipments and personnel quoted by the bidder.

13.0 **SCHEDULE OF PAYMENT:**

13.1 Contractor shall raise invoice for the mobilization charges when the entire equipment and personnel are ready at sites for starting the job as certified by Company authorized representative after verification/inspection.

- 13.2 For operating, monthly fixed, data processing charges, mileage charges etc, Contractor shall raise the invoice after completing service each calendar month.
- 13.3 Contractor shall raise on Company two invoices every month – one invoice for minimum charges equivalent to monthly fixed charges for equipment/ tools plus monthly personnel charges under the Contract and 2<sup>nd</sup> invoice for all the balance amount payable under the Contract for the month. All the invoices shall be raised as per Section-IV, Schedule of Rates/Price Proforma-A, A1, A2, A3, A4 & A5.

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**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 : .....

PROFORMA FOR BIO DATA OF KEY PERSONNEL

1. NAME:
2. PRESENT ADDRESS:
3. PERMANENT ADDRESS:
4. FATHER'S NAME :
5. NATIONALITY :
6. PASSPORT NO. AND VALIDITY :  
(IN CASE OF EXPATRIATE)
7. DESIGNATED POST :
8. EDUCATIONAL QUALIFICATION :
9. DATE OF BIRTH :
10. EXPERIENCE IN REVERSE ORDER :

PROFORMA UNDERTAKING FROM CONTRACTORS PERSONNEL

I \_\_\_\_\_ S/o \_\_\_\_\_  
having permanent residence at \_\_\_\_\_  
Dist. \_\_\_\_\_ am working with M/s. \_\_\_\_\_  
as their employee. Now, I have been transferred by M/s.  
\_\_\_\_\_ for carrying out the contract job under  
Contract No. \_\_\_\_\_ which has been awarded in favour  
of my employer M/s. \_\_\_\_\_.

I hereby declare that I will not have any claim for employment or any service benefit from OIL by virtue of my deployment for carrying out contract job in OIL by M/s. \_\_\_\_\_.

I am an employee of \_\_\_\_\_ for all practical purposes and there is no privity of Contract between OIL and me.

-----  
Signature

Place:

Date:

1. NAME:  
DESIGNATION:  
DATE:

2. NAME:  
DESIGNATION  
DATE:

PRICE SCHEDULE

The Rates and Charges are to be quoted as per  
Price Bid Format vide Proforma – A, A1 to A7

IFB No. \_\_\_\_\_

**LIST OF ITEMS (Equipment, Tools, Accessories, Spares & consumable) TO BE IMPORTED  
IN CONNECTION WITH EXECUTION OF THE CONTRACT SHOWING CIF VALUE.**

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

**NOTE :**

1.0 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".

2.0 The items, which are of consumable in nature should be indicated as "NO" in column "J". However, the unutilized Spares and Consumables must be re-exported by Contractor after expiry/termination of the Contract and bidders must confirm the same.

3.0 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:**

**BID FORM**

To  
M/s Oil India Limited,  
P.O. Duliajan, Assam, India

**Sub: IFB 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 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/months calculated from the date of issue of Letter of Award(LOA).

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 opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period or any extension to bid validity agreed by us.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof in your Letter 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 \_\_\_\_\_ 2011.

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

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

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

**Seal of the Bidder:**

**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:

Section	Clause No (Page No)	Non-Compliance	Remarks

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.

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 IFB 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 \_\_\_\_\_ 2011.

THE CONDITIONS of these obligations are:

- (1) If the Bidder withdraws 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 agreement 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 \_\_\_\_\_

Witness \_\_\_\_\_  
Address \_\_\_\_\_

\_\_\_\_\_  
(Signature, Name and 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,  
**(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 **3 months** after Contract completion date).

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

Designation \_\_\_\_\_

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

Address \_\_\_\_\_

Witness \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Date .....

Place \_\_\_\_\_

**AGREEMENT FORM**

This Agreement 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 Duliagan 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 and

WHEREAS, Company had issued a firm Letter of Award No. \_\_\_\_\_ dated \_\_\_\_\_ based on Offer No. \_\_\_\_\_ dated \_\_\_\_\_ submitted by the Contractor against Company's IFB# \_\_\_\_\_. All these aforesaid documents shall be deemed to form and be read and construed as part of this agreement/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 Bid Document and subsequent letters including the Letter of Intent 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 authorized 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 Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. In addition to documents herein above, 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 this Contract;
  - (b) Section-II indicating the Terms of Reference/Technical Specifications;
  - (c) Section-III indicating the Special Terms & Condition;

(d) Section-IV indicating the Schedule of Rates;

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)

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

Name:

Name:

Status:

Status:

In presence of

In presence of

1.

1.

2.

2.

PROFORMA LETTER OF AUTHORITY

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

Sir,

**Sub: OIL's IFB No.** \_\_\_\_\_

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 IFB No. \_\_\_\_\_ for hiring of services for \_\_\_\_\_.

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

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 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. \_\_\_\_\_

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.