

SECTION - I

Forwarding Letter

Tender No. OIL/CCO/GPHY/GLOBAL/219/2008

To,

1.0 OIL INDIA LIMITED (OIL), a 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 (international) contractors for **HIRING OF SERVICES FOR PROCESSING AND INTERPRETATION OF 150 SQ.KM (APPROX. 8000 SHOTS) OF 3D-3C SEISMIC DATA IN ONE BLOCK OR DIFFERENT BLOCKS IN OIL'S OPERATIONAL AREAS OF UPPER ASSAM AND ARUNACHAL PRADESH**. One complete set of bid document covering OIL's tender for hiring of above services is being forwarded herewith. Please submit your most competitive bid on or before the scheduled bid closing date and time. For your ready reference, few salient points (covered in detail in this Bid Document) are highlighted below:

- (i) TENDER NO. : OIL/CCO/GPHY/GLOBAL/219/2008
- (ii) TYPE OF BID : Single Stage-Two Bid
- (iii) PRE-BID CONFERENCE : **13th August 2008** (From 10:00 AM at New Delhi)
- (iv) BID CLOSING DATE & TIME : 28/08/2008 (12.45 hrs IST)
- (v) TECHNICAL BID OPENING DATE & TIME:28/08/2008 (13.00 hrs. IST)
- (vi) COMMERCIAL BID OPENING DATE & TIME : Will be intimated to the eligible bidders nearer the time
- (vii) BID SUBMISSION PLACES : Office of the Head - Contracts, Oil India Limited, Duliajan-786602, Assam (India)
- (viii) BID OPENING PLACE : Office of the HEAD (Contracts) Oil India Limited Duliajan – 786602, Assam, India
- (ix) BID SECURITY AMOUNT : US\$ 20,000.00 or Rs. 8,00,000.00

- (x) AMOUNT OF PERFORMANCE GUARANTEE : 10 % of the total estimated contract value
- (xi) MOBILISATION TIME : Within 60 days from the date of award of contract.
- (xii) QUANTUM OF LIQUIDATED DAMAGE FOR DEFAULT IN TIMELY MOBILISATION. : 1/2% of total contract value for delay per week or part thereof subject to maximum of 7.1/2%
- (xiii) BIDS TO BE ADDRESSED TO : HEAD - CONTRACTS
OIL INDIA LIMITED
DULIAJAN - 786 602
ASSAM, INDIA

3.0 As an intending bidder for **HIRING OF SERVICES FOR PROCESSING AND INTERPRETATION OF 150 SQ.KM (APPROX. 8000 SHOTS) OF 3D-3C SEISMIC DATA IN ONE BLOCK OR DIFFERENT BLOCKS IN OIL'S OPERATIONAL AREAS OF UPPER ASSAM AND ARUNACHAL PRADESH**, you are hereby invited to take part in the Pre-bid conference to be held at New Delhi, India, on **13th August 2008**. Exact place of the PRE-BID CONFERENCE will be intimated nearer the time.

4.0 OIL now looks forward to your active participation in the tender.

Thanking you,

Yours faithfully,
OIL INDIA LIMITED

HEAD (CONTRACTS)
FOR EXECUTIVE DIRECTOR(SS)

SECTION - II

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. BIDDING DOCUMENTS

2.0 The services required, bidding procedures and contract terms are prescribed in the Bidding Documents. This bidding document includes the following:

- (a) A forwarding letter highlighting the following points (Section I) :
 - (i) Company's Tender No.
 - (ii) Bid closing date and time.
 - (iii) Bid opening date, time and place.
 - (iv) Bid submission place.
 - (v) Bid opening place.
 - (vi) The amount of Bid Security.
 - (vii) The amount of performance guarantee.
 - (viii) Quantum of liquidated damages for default in timely mobilisation.
- (b) Instruction to Bidders (Section II)
- (c) General Conditions of Contract (Section III)
- (d) Terms of Reference/Technical specification (Section IV)
- (e) Schedule of Rates (Section V)
- (f) Special Conditions of Contract (Section VI)
- (g) Bid Evaluation Criteria/Bid Rejection Criteria (BEC/BRC)-(Section-VII)
- (h) Estimated CIF value of items at the time of import (Proforma -I).
- (i) Statement of Compliance (Proforma II).
- (j) Bid Form (Proforma II A).
- (k) The Performance Security Form (Proforma II B).
- (l) The Contract Form (Proforma II C).
- (m) The Bid Security Form (Proforma II D).
- (n) Proforma Letter of Authority (Proforma III)

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

3.0 AMENDMENT OF BIDDING DOCUMENTS :

3.1 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 Bidding Documents by the issuance of an Addendum.

3.2 The Addendum will be sent in writing or by Fax to all prospective Bidders to whom Company has sent 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.

B. PREPARATION OF BIDS

4.0 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 English translated version, which shall govern for the purpose of bid interpretation.

5.0 DOCUMENTS COMPRISING THE BID:

5.1 The bid submitted by the Bidder shall comprise of the following components:

A. TECHNICAL BID

- (i) Complete technical details of the services and equipment specifications with catalogue, etc.
- (ii) Documentary evidence established in accordance with Para 9.0.
- (iii) Bid Security furnished in accordance with Para 10.0.
- (iv) Statement of compliance as per **Proforma –II**.
- (v) **Proforma I** showing the items to be imported without the CIF values.

B. COMMERCIAL/PRICE BID

- (i) Bid Form, Schedule of Rates,
- (ii) Estimated CIF value as per **Proforma I**.

6.0 BID FORM:

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

7.0 BID PRICE:

7.1 Unit prices must be quoted by the bidders both in words and in figures.

7.2 Price quoted by the successful bidder must remain firm during its performance of the Contract and is not subject to variation on any account.

7.3 All duties (except customs duty which will be borne by Company) and taxes including Corporate Income Taxes and other levies payable by the successful bidder under the Contract for which this Bidding 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.

8.0 CURRENCIES OF BID AND PAYMENT:

8.1 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.

8.2 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.

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

9.1 These are listed in Section VII.

10.0 **BID SECURITY :**

10.1 Pursuant to Para 5.0 the Bidder shall furnish as part of its Technical bid, Bid Security in the amount as specified in the "Forwarding Letter".

10.2 The Bid Security is required to protect the Company against the risk of Bidder's conduct, which would warrant the security's forfeiture, pursuant to sub-para 10.7.

10.3 The Bid Security shall be denominated in the currency of the bid or another freely convertible currency, and shall be in one of the following form:

- (a) A bank guarantee or irrevocable Letter of Credit issued by a scheduled Indian bank or a foreign bank located in India in the form provided in the Bidding Documents or another form acceptable to the Company and valid for 30 days beyond the validity of the bids.
- (b) A cashier's cheque or demand draft drawn on 'Oil India Limited' and payable at Duliajan, Assam.

10.4 Any bid not secured in accordance with subpara 10.1 and / or 10.3 shall be rejected by the Company as non-responsive.

10.5 Unsuccessful Bidder's Bid Security will be discharged and/or returned within 30 days of expiry of the period of bid validity.

10.6 Successful Bidder's Bid Security will be discharged upon the Bidder's signing of the contract and furnishing the performance security.

10.7 The Bid Security may be forfeited:

- (a) If any Bidder withdraws their bid during the period of bid validity (including any subsequent extension) specified by the Bidder on the Bid Form, or
- (b) If a successful Bidder fails:
 - i) to sign the contract within reasonable time and within the period of bid validity, and /or
 - ii) to furnish Performance Security.

11.0 **PERIOD OF VALIDITY OF BIDS :**

11.1 Bids shall remain valid for 180 days after the date of bid opening prescribed by the Company.

11.2 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 (or by Fax). The bid Security provided under para 10.0 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.

12.0 **FORMAT AND SIGNING OF BID:**

- 12.1 The Bidder shall prepare four copies of the bid clearly marking original "ORIGINAL BID" and rest "COPY OF BID". In the event of any discrepancy between them, the original shall govern.
- 12.2 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 to bind the Bidder to the contract. The letter of authorisation (as per Proforma III) shall be indicated by written power of attorney accompanying the bid. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid.
- 12.3 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.

C. SUBMISSION OF BIDS :

13.0 SEALING AND MARKING OF BIDS :

- 13.1 The tender is being processed according to a single stage - Two bid procedure. Offers should be submitted in two parts viz. Technical bid and Commercial bid each in quadruplicate (one Original and 3 copies).
- 13.2 The Bidder shall seal the original and each copy of the bid duly marking as "ORIGINAL" and "COPY".
- 13.3 The cover containing the Technical Bid (Original + 3 copies) should be in one sealed cover bearing the following on the right hand top corner.
- (i) Envelope No.1 Technical bid
 - (ii) Tender No. _____.
 - (iii) Bid closing date _____.
 - (iv) Bidder's name _____.
- 13.4 The cover containing the Commercial Bid (Original + 3 copies) should be in a separate sealed cover bearing the following on the right hand top corner.
- (i) Envelope No.2 Commercial bid
 - (ii) Tender No. _____.
 - (iii) Bid closing date _____.
 - (iv) Bidder's name _____.
- 13.5 The above mentioned two separate covers containing Technical and the Commercial bids should then be put together in another envelope bearing the following details on the top and the envelope should be addressed to the person(s) as mentioned in the " Forwarding Letter".
- (i) Tender No. _____.
 - (ii) Bid closing date _____.
 - (iii) Bidder's name _____.
- 13.6 The offer should contain complete specifications, details of services and equipment/accessories offered together with other relevant literature/ catalogues of the equipment offered. The Bid Security mentioned in para 10.0 should be enclosed with the Technical Bid. **The price Schedule should not be put in the envelope containing the Technical Bid.**

Proforma I without the CIF values should be enclosed with the Technical bid and the same with the CIF values should be put in the Commercial bid.

- 13.7 All the conditions of the contract to be made with the successful bidder are given in various Sections of this document. Bidders are requested to state their compliance/ non-compliance to each clause as per **PROFORMA II**. This should be enclosed with the technical bid.
- 13.8 Timely delivery of the bids is the responsibility of the Bidder. Bidders should send their bids as far as possible by Registered Post or by Courier Services. Company shall not be responsible for any postal delay/ transit loss.
- 13.9 Cable/ Fax/E-mail/ Telephonic offers will not be accepted.

14.0 INDIAN AGENTS

- 14.1 Bidders are requested to clearly indicate in their quotation whether they have an agent in India. If so, the bidders should furnish the name and address of their agents and state clearly whether these agents are authorised to receive any commission. The rate of the commission should be indicated which will be payable 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 quote directly and not through their agents in India.

15.0 DEADLINE FOR SUBMISSION OF BIDS :

- 15.1 Bids must be received by the company at the address specified in the "Forwarding Letter" not later than 12-45 Hrs. (Indian Standard Time) on the bid closing date mentioned in the "Forwarding Letter".

16.0 LATE BIDS:

- 16.1 Any Bid received by the Company after the deadline for submission of bids prescribed by the Company shall be rejected.

17.0 MODIFICATION AND WITHDRAWAL OF BIDS:

- 17.1 The Bidder after submission of bid may modify or withdraw its bid by written notice prior to bid closing.
- 17.2 The Bidder's modification or withdrawal notice shall be prepared sealed, marked and despatched in accordance with the provisions of para 13.0. A withdrawal notice may also be sent by fax but followed by a signed confirmation copy, postmarked not later than the deadline for submission of bids.
- 17.3 No bid can be modified subsequent to the deadline for submission of bids.
- 17.4 No bid may 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.

18.0 BID OPENING AND EVALUATION

- 18.1 Company will open the Bids, including submission made pursuant to para 17.0, in the presence of Bidder's representatives who choose to attend at the date, time and place mentioned in the Forwarding Letter. However, an authorisation letter 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.

- 18.2 Bid for which an acceptable notice of withdrawal has been received pursuant to para 17.0 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 properly signed and whether the bids are generally in order.
- 18.3 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.
- 18.4 Company shall prepare, for its own records, minutes of bid opening including the information disclosed to those present in accordance with the subpara 18.3.
- 18.5 To assist in the examination, evaluation and comparison of bids the Company may at its discretion, ask the Bidder for clarifications of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.
- 18.6 Prior to the detailed evaluation, Company will determine the substantial responsiveness of each bid to the requirement of the Bidding Documents. For purpose of these paragraphs, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding 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 bidding 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.
- 18.7 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.
- 18.8 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.

19.0 OPENING OF COMMERCIAL/PRICE BIDS

- 19.1 Company will open the Commercial Bids of the technically qualified Bidders on a specific date in presence of interested qualified bidders. Technically qualified Bidders will be intimated about the bid opening date in advance.
- 19.2 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.
- 19.3 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 any Bidder does not accept the correction of the errors, their bid will be rejected. If there is a discrepancy between words, and figures, the amount in words will prevail.

20.0 CONVERSION TO SINGLE CURRENCY:

20.1 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.

21.0 EVALUATION AND COMPARISON OF BIDS:

21.1 The Company will evaluate and compare the bids as per Section-VII of the bidding documents.

22.0 LOADING OF FOREIGN EXCHANGE :

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

22.2 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.

23.0 CONTACTING THE COMPANY :

23.1 Except as otherwise provided in para 18.0 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 para 18.5.

23.2 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:

24.0 AWARD CRITERIA:

24.1 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.

25.0 COMPANY'S RIGHT TO ACCEPT OR REJECT ANY BID :

25.1 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.

26.0 NOTIFICATION OF AWARD:

26.1 Prior to the expiry of the period of bid validity or extended validity ,the company will notify the successful Bidder in writing by registered letter or by cable or telex or fax (to be confirmed in writing by registered / couriered letter) that its bid has been accepted.

26.2 The notification of award will constitute the formation of the Contract.

26.3 Upon the successful Bidder's furnishing of Performance Security pursuant to para 28.0 the company will promptly notify each un-successful Bidder and will discharge their Bid Security, pursuant to para 10.0 hereinabove.

27.0 SIGNING OF CONTRACT:

27.1 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 Bidding Documents, along with the General & Special Conditions of Contract, Technical Specifications, Schedule of rates incorporating all agreements between the parties.

27.2 Within 30 days of receipt of the final contract document, the successful Bidder shall sign and date the contract and return it to the company.

28.0 PERFORMANCE SECURITY:

28.1 Within 30 days of the receipt of notification of award from the Company the successful Bidder shall furnish the performance security for an amount specified in the Forwarding Letter in the performance Security Form as provided in the Bidding Documents or in any other form acceptable to the Company. 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.

28.2 The performance security specified above must be valid for one year (plus 3 months to lodge claim, if any) after the date of expiry of the tenure of the contract to cover the warranty obligations indicated in para 6.0 of Section III hereof. The same will be discharged by company not later than 30 days following its expiry.

28.3 Failure of the successful Bidder to comply with the requirements of para 27.0 or 28.0 shall constitute sufficient grounds for annulment of the award and forfeiture of the Bid Security. In such an event the Company may award the contract to the next evaluated Bidder or call for new bid or negotiate with the next lowest bidder as the case may be.

29.0 LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY MOBILISATION :

29.1 In the event of the Contractor's default in timely mobilisation for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 1/2% of the total contract value per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilisation period till the date of commencement of contract as defined in clause no. 2.0 of Section - III.

The Company also reserves the right to cancel the Contract without any compensation whatsoever in case of failure to mobilise and commence operation within the stipulated period.

30.0 **CREDIT FACILITY :**

30.1 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.

31.0 **MOBILISATION ADVANCE PAYMENT :**

31.1 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.

31.2 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.

31.3 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.

31.4 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.

SECTION III

GENERAL CONDITIONS OF CONTRACT

1.0 DEFINITIONS :

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

(a) "Contract" means agreement entered into between Company and contractor, as recorded in the contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein;

(b) "Contract Price" means the price payable to contractor under the contract for the full and proper performance of its contractual obligations;

(c) " Work" means each and every activity required for the successful performance of the services described in Section IV, the Terms of Reference;

(d) "Company" means Oil India Limited (OIL);

(e) "Contractor" means the individual or firm or Body incorporated performing the work under this Contract;

(f) "Contractor's Personnel" means the personnel to be provided by the contractor to provide services as per the contract;

(g) "Company's Personnel" means the personnel to be provided by OIL or OIL's contractor (other than the Contractor executing this Contract). The company representatives of OIL are also included in the Company's personnel.

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

2.1 The contract shall become effective as of the date company notifies contractor in writing that it has been awarded the contract. Such date of notification of award of Contract will be the Effective Date of Contract

2.2 The mobilisation of equipment, personnel etc. should be completed by Contractor within 60 days of the effective date of contract. Mobilisation shall be deemed to be completed when Contractor's equipment and manpower are placed at the nominated location in readiness to commence the Work as envisaged under the contract.

2.3 The date on which the mobilisation is completed in all respects is treated as date of commencement of contract. The duration of the contract to be reckoned from the commencement date shall be for a period as detailed in clause 6.0 of Section IV.

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 IV) 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 labour 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 himself before submitting their bid as to the correctness and sufficiency of its bid for the services required and of the rates and prices quoted, which rates and prices shall, except insofar as otherwise provided, cover all its obligations under the contract.

3.5 Contractor shall give or provide all necessary supervision during the performance of the services and as long thereafter 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 it shall provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently.

5.2 The Contractor should ensure that their personnel observe applicable company and statutory safety requirement. Upon Company's written request, contractor, entirely at its own expense, shall remove immediately, any personnel of the Contractor determined by the Company to be unsuitable and shall promptly replace such personnel with personnel acceptable to the Company.

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).

6.0 **WARRANTY AND REMEDY OF DEFECTS :**

6.1 Contractor warrants that it shall perform the work in a professional manner and in accordance with the highest degree of quality, efficiency, and with the state of the art technology/ inspection services and in conformity with all specifications, standards and drawings set forth or referred to in the Technical Specifications. They should comply with the instructions and guidance which Company may give to the Contractor from time to time.

6.2 Should Company discover at any time during the execution of the Contract or within one year after completion of the operations 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. Such corrective work shall be performed entirely at contractor's own expenses. If such corrective work is not performed within a reasonable time, the Company, at its option, may have such remedial work carried out by others and charge the cost thereof to Contractor 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 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.

8.0 TAXES :

8.1 Tax levied as per the provisions of Indian Income Tax Act and any other enactment/rules on income derived/ payments received under the contract will be on contractor's account.

8.2 Contractor shall be responsible for payment of personal taxes, if any, for all the personnel deployed in India.

8.3 The contractor shall furnish to the company, if and when called upon to do so, relevant statement of accounts or any other information pertaining to work done under the contract for submitting the same to the Tax authorities, on specific request from them. Contractor shall be responsible for preparing and filing the return of income etc. within the prescribed time limit to the appropriate authority.

8.4 Prior to start of operations under the contract, the contractor shall furnish the company with the necessary documents, as asked for by the company and/ or any other information pertaining to the contract, which may be required to be submitted to the Income Tax authorities at the time of obtaining "No Objection Certificate" for releasing payments to the contractor.

8.5 Tax clearance certificate for personnel and corporate taxes shall be obtained by the contractor from the appropriate Indian Tax authorities and furnished to company within 6 months of the expiry of the tenure of the contract or such extended time as the company may allow in this regard.

8.6 Corporate income tax will be deducted at source from the invoice at the specified rate of income tax as per the provisions of Indian Income Tax Act as may be in force from time to time.

8.7 Corporate and personnel taxes on contractor shall be the liability of the contractor and the company shall not assume any responsibility on this account.

8.8 All local taxes, levies and duties, sales tax, octroi, etc. on purchases and sales made by contractor (except customs duty) shall be borne by the contractor.

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 covering liabilities including contractual liability for bodily injury, including death of persons, and liabilities for damage of property. This insurance must cover all operations of Contractor required to fulfill the provisions under this contract.

d) Contractor's equipment used for execution of the work hereunder shall have an insurance cover with a suitable limit (as per international standards).

e) Automobile Public Liability Insurance covering owned, non-owned and hired automobiles used in the performance of the work hereunder, with bodily injury limits and property damage limits shall be governed by Indian Insurance regulations.

f) Public Liability Insurance as required under Public Liability Insurance Act 1991.

9.3 Contractor shall obtain additional insurance or revise the limits of existing insurance as per Company's request in which case additional cost shall be to Contractor's account.

9.4 Any deductible set forth in any of the above insurance shall be borne by Contractor.

9.5 Contractor shall furnish to Company prior to commencement date, certificates of all its insurance policies covering the risks mentioned above.

9.6 If any of the above policies expire or are cancelled during the term of this contract and Contractor fails for any reason to renew such policies, then the Company will renew/replace same and charge the cost thereof to Contractor. Should there be a lapse in any insurance required to be carried by Contractor for any reason whatsoever, loss/damage claims resulting therefrom 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 V). 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.

12.0 **TERMINATION:**

12.1 TERMINATION ON EXPIRY OF THE TERMS (DURATION)

The contract shall be deemed to have been automatically terminated on completion of Processing & Interpretation of 150 SQKM full fold 3D-3C seismic data or expiry of duration of the Contract or extension, if any, there of, whichever is earlier.

12.2 TERMINATION ON ACCOUNT OF FORCE MAJEURE:

Either party shall have the right to terminate the Contract on account of Force Majeure as set forth in para 11.0 above.

12.3 TERMINATION ON ACCOUNT OF INSOLVENCY:

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

12.4 TERMINATION FOR UNSATISFACTORY PERFORMANCE:

If the Company considers that, the performance of the Contractor is unsatisfactory, or not upto the expected standard, the Company shall notify the Contractor in writing and specify in details the cause of the dissatisfaction. The Company shall have the option to terminate the

Contract by giving 15 days notice in writing to the Contractor, if Contractor fails to comply with the requisitions contained in the said written notice issued by the Company,

12.5 TERMINATION DUE TO CHANGE OF OWNERSHIP & ASSIGNMENT:

In case the Contractor's rights and / or obligations under the Contract and/or the Contractor's rights, title and interest to the equipment/material, are transferred or assigned without the Company's consent, the Company may at its absolute discretion, terminate the Contract.

12.6 If at any time during the term of the Contract, breakdown of Contractor's equipment results in Contractor being unable to perform their obligations hereunder for a period of 15 successive days, Company at its option may terminate this Contract in its entirety without any further right or obligation on the part of the Company except for the payment of money then due. No notice shall be served by the Company under the condition stated above.

12.7 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the company on giving 15 (fifteen) days written notice to the Contractor due to any other reason not covered under the above clause from 12.1 to 12.6 and in the event of such termination the Company shall not be liable to pay any cost or damage to the Contractor except for payment for services as per the Contract upto the date of termination.

12.8 CONSEQUENCES OF TERMINATION:

In all cases of termination herein set forth, the obligation of the Company to pay for Services as per the Contract shall be limited to the period upto the date of termination. Notwithstanding the termination of the Contract, the parties shall continue to be bound by the provisions of the Contract that reasonably require some action or forbearance after such termination.

12.9 Upon termination of the Contract, Contractor shall return to Company all of Company's items, which are at the time in Contractor's possession.

12.10 In the event of termination of contract, Company will issue Notice of termination of the contract with date or event after which the contract will be terminated. The contract shall then stand terminated and the Contractor shall demobilise their personnel & materials.

13.0 SETTLEMENT OF DISPUTES AND ARBITRATION :

13.1 All disputes or differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration in accordance with the Rules of Indian Arbitration and Conciliation Act, 1996. The venue of arbitration will be Duliajan, Assam. The award made in pursuance thereof shall be binding on the parties.

14.0 NOTICES :

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

Company

Contractor

Chief Manager (Contracts)
OIL INDIA LIMITED
DULIAJAN - 786602

ASSAM , INDIA

Fax No. 0374- 2803549

E-mail : contracts@oilindia.in

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

15.0 SUBCONTRACTING :

15.1 Contractor shall not subcontract or assign, in whole or in part, its obligations to perform under this contract, except with Company's prior written consent.

16.0 MISCELLANEOUS PROVISIONS :

16.1 a) 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.

b) 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.

16.2 During the tenure of the Contract, Contractor shall keep the site where the services are being performed reasonably free from all unnecessary obstruction and shall store or dispose of any equipment and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works no longer required. On the completion of the services, Contractor shall clear away and remove from the site any surplus materials, rubbish or temporary works of every kind and leave the whole of the site clean and in workmanlike condition to the satisfaction of the Company.

16.3 Key personnel can not be changed during the tenure of the Contract except due to sickness/death/resignation of the personnel in which case the replaced person should have equal experience and qualification which will be again subject to approval by the Company.

17.0 LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY MOBILISATION :

17.1 In the event of the Contractor's default in timely mobilisation for commencement of operations within the stipulated period, the Contractor shall be liable to pay liquidated damages at the rate of 1/2% of the total contract value per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilisation period till the date of commencement of contract as defined in clause no. 2.0 of Section - III.

The Company also reserves the right to cancel the Contract without any compensation whatsoever in case of failure to mobilise and commence operation within the stipulated period.

18.0 PERFORMANCE SECURITY :

18.1 The Contractor has furnished to Company a Bank Guarantee No. _____ dated _____ issued by _____ for _____ (being 10% of estimated Contract Price) valid till _____ 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.

SECTION - IV

TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS (PROCESSING & INTERPRETATION OF 3D-3C SEISMIC DATA)

1.0 Introduction:

1.1 This section establishes the scope and schedule for the work to be performed by the Contractor and describes references to the specifications, instructions, standards and other documents including specifications for any materials, tools or equipment which Contractor shall satisfy or adhere to in the performance of the work.

2.0 Scope of Work:

2.1 The Company desires to carry out Processing and Interpretation of 150 SQ.KM OF 3D-3C seismic data using state-of-the-art equipment in areas of Upper Assam. The areas where seismic data acquisition is planned under this contract are expected to cover about 2 different blocks within our operational areas in Assam.

2.3 The Contractor shall with their own personnel and equipment carry out entire routine and special processing of the above acquired 3D-3C seismic data.

2.4 The Contractor shall with their own personnel and equipment carry out interpretation of the above acquired 3D-3C seismic data.

2.5 The Contractor shall deploy the equipment, computer hardware and software of state-of-the-art technology for performing the services referred to in the contract.

2.7 Seismic data processing and interpretation will be carried out preferably in work place of the contractor in any cities in India. However alternate option is there to carryout these jobs in the work place of the contractor in any cities out side India. During the course of the work a minimum of two nos. of geophysicists will be associated in data processing. Similarly, during course of data interpretation work at least two geophysicists and two geologists will be associated.

2.8 The Contractor shall deploy latest processing system including one of the leading seismic data processing packages, presently used globally, for processing / analysis of the 3D-3C seismic data.

2.9 The Contractor shall deploy latest interpretation system including one of the leading seismic data interpretation packages, presently used globally, for interpretation / analysis of the 3D-3C seismic data.

2.10 The total volume of the data will be of 150 SQKM of 50 fold seismic data for two different blocks (100 SQKM + 50 SQKM). The data will be processed and interpreted and the expected standards are given in the clauses below.

3.0 Objectives of the Work:

3.1 A quantum of 150 SQ.KM of 3D-3C seismic surveys will be acquired in the blocks as shown in the enclosed map.

3.2 All the blocks are located in the prolific oil producing areas of Upper Assam Basin. In the blocks, oil and gas reservoirs pertain to Oligocene-Miocene and Paleocene-Eocene age. These are at depth ranges of 2000-3500m and 4200-4700m respectively. The objective of the survey is to delineate these different reservoirs and identify stratigraphic and structural prospects in the areas.

3.4 The existing data in the area of the proposed survey indicates a maximum dip of 15 degrees.

3.5 The two-way travel time of primary targets is between 1400 milliseconds to 3200 milliseconds in P-wave time and the apparent frequency content available on the existing P-wave seismic section is around 12 to 80 Hz.

5.0 METHOD OF WORK:

A. SEISMIC DATA PROCESSING

5.11 The Contractor shall carry out routine and special processing of the data acquired under this contract. The Contractor must use state-of-art computer system with internationally used software be capable of carrying out full pre-stack 3D-3C processing in time and depth domain.

5.13 The objectives of seismic data processing is to provide adequate outputs for delineation of the sand bodies besides structural interpretation. Primarily, the data is required to be processed for structural / stratigraphic interpretation and reservoir delineation/ characterization.

5.14 The Contractor shall carry out detailed tests of processing parameters so that optimum sequence / parameters can be achieved. The tests need to be carried out as per industry standards. It is envisaged that such test processing will be done on about 10 percent of total data volume (mainly around existing wells) which will be identified in consultation with Company representatives. The parameter testing should be comprehensive for entire processing sequence with adequate QC checks.

5.15 Modelling/ray tracing will be performed with the available well log data in and around wells of the survey area in order to calibrate PP and PS data. Modelling job shall be performed in the following sequence:

- a) Loading, QC and editing of log data;
- b) Estimation of shear wave velocity from the available DSI/ full waveform sonic logs / near offset VSPs;
- c) Log calibration and blocking, derivation of an elastic model;
- d) Generation of synthetic seismograms (including primaries and multiples) using a full scale elastic algorithm;
- e) PP and PS seismic data calibration between synthetic and observed data (stack and gathers);
- f) Analysis of "e" above to redesign the processing parameters if necessary and repeat the processing sequence.

5.16 The following tentative processing sequence is envisaged to process the above acquired P-wave (PP) component of the 3D-3C seismic data. However, the actual sequence will be determined after completion of test processing in consultation with Company representatives. It is also envisaged that the data will be processed for preserved / true amplitudes in order to meet the exploration objectives.

- Seismic data load and format conversion (if required)
- Geometry preparation
- QC of acquisition geometry, receiver and shot co-ordinates and orientation;
- Geometry Preparation and Seismic / Navigation data Merge

- CMP binning
- Spherical divergence compensation;
- Noise filtering on shot records
- Trace editing
 - Filtering for data balancing of the acquisition instrument spectrum
 - Discard noise traces
 - Reverse polarity correction if any
 - Despiking
- Deconvolution (Preferably surface consistent or in Tau –P domain)
- Surface Consistent amplitude scaling
- Application of field statics correction (source and receiver)
- Calculation and Application of Refraction statics in combination with shot-hole and LVL/Up-hole data
- Linear noise attenuation (FK/ Tau-p filter);
- Multi-component ground roll rejection filter (Polarization filter of the vertical component using horizontal components)
- Multiple Attenuation, if required (FK/ Tau-p etc.);
- Q-compensation.
- Primary Velocity Analysis at 2 X 2 km
- Residual statics and NMO correction
- Second pass Velocity Analysis at 500m X 500m
- Residual statics and NMO correction
- NMO stack
- Random noise attenuation
- Spectral Balancing, if required
- Deconvolution (if required)
- Time Variant Filtering
- Stacked section / Final stack
- Post Stack Time Migration.
- Zero phasing of post stack time migrated data
- Pre-Stack Time migration with horizon based velocity analysis
- Anisotropic (Vertical Transverse Isotropy) Pre-Stack Time Migration
- Zero phasing of Pre-stack time migrated data.

- Post Stack Depth Migration
- P-wave Inversion

5.17 Processing of PS data requires detailed velocity analysis and modeling exercises in order to define the proper Common Conversion Point (CCP) binning. Special care must be paid to the calculation of receiver static time shifts, which improves the velocity analysis and stack responses.

5.18 The tentative sequence for pre-processing of Horizontal in-line X (radial) component and horizontal cross-line Y (transverse) component will be as follows:

- Seismic data load and format conversion (if required)
- Geometry preparation
- QC of acquisition geometry, receiver and shot co-ordinates and orientation;
- Geometry Preparation and Seismic / Navigation data Merge
- Rotation of X, Y, data into radial and transverse orientation
- Rotation search of X (radial) component and Y (transverse) component for anisotropic splitting of shear waves;
- Processing of fast (PS1) and slow (PS2) volumes of shear wave splitting effect if visible on data;
- CCP binning
- Trace editing
 - Filtering for data balancing of the acquisition instrument spectrum
 - Discard noise traces
 - Reverse polarity correction if any
 - Despiking
- Minimum phase conversion;
- Spherical divergence compensation;
- Noise filtering on shot records
- Deconvolution (surface consistent)
- Application of field statics correction (source)
- Multi-component ground roll rejection filter
- Linear noise attenuation (FK/ Tau-p filter);
- Multiple Attenuation, if required (FK/ Tau-p etc.);
- Calculation and Application of Receiver statics (from common receiver stacks)
- Use of S-wave refraction statics if SS refraction events are present

- Two component amplitude scaling;
- Estimation of V_p/V_s (Ratio of P-wave velocity to S-wave velocity) – shear wave velocity may be derived from DSI/ full waveform sonic logs/ empirical relationships / approximate horizon correction with P-wave data.

5.19 The sequence of processing of radial component.

- Sort to Common Conversion gathers (CCP) using constant values of V_p/V_s ;
- Residual Static Corrections (1-2 iterations);
- Velocity Analysis of P-S waves;
- NMO analysis/correction;
- CCP Stack (for QC purposes);
- Extraction of S-wave stacking velocity from P-wave and PS wave velocity field;
- Resorting of the data in CCP using V_p/V_s as a function of time;
- Repeat the above steps;
- Extract final V_p/V_s as a function of time
- Final P-S stack
- Random noise attenuation;
- Post-stack time migration;
- Zero-phasing on post-stack time-migration;
- Time variant filters;
- Pre-Stack Time Migration (PSTM) of the final stack data using horizon based velocity analysis
- Post Stack Depth Migration
- Radial P-S inversion;
- Special Processing if required: Anisotropic (VTI) pre-stack P-S migration

5.20 The processing analysis will also include studies related to investigation of azimuthal anisotropy for estimation of crack attributes (density and orientation)

5.21 Some additional processing routines may be applied to the data, depending on the requirement with prior permission from Company. The list of such processors and the quantum of data on which the processor may be applied is given Enclosure I.

B. SEISMIC DATA INTERPRETATION

5.22 Interpretation work will involve the following:

- a) Combined interpretation and structural mapping (ten levels in each block, **as examples: any marked horizon is taken as one level**) of P-P and P-S data acquired under the contract both in time and depth domain, including PP and PS horizon mapping.
- b) Correlation with well and seismic data using synthetic seismograms;
- c) Analysis of attributes derived from different processing outputs of multi-component data to study lateral variation of velocity;
- d) Use some existing seismic profile for the same;
- e) Vp/Vs evaluation from Isocron ratios and inversion quotients.
- f) Preparation of individual/composite sand maps (about ten maps in each area);
- g) Determination and mapping of fluid factors.

6.0 Period of Contract:

6.1 The seismic data Processing and Interpretation phase under this Contract is planned to commence from August, 2009. The period of Contract for Processing and Interpretation of 150 SQ.KM. of minimum 50 fold 3D-3C data and submission of reports with relevant maps shall be maximum 7 months excluding mobilization and demobilization periods.

6.2 The period of Contract referred to in para 6.1 above are inclusive of national holidays, bad weather days, experimental work days and production loss due to equipment failure or any other reasons under Contractor's control.

If spill over of Work beyond the stipulated period is due to Contractor by way of their delayed mobilisation and/or low Work progress than expected, then the Contractor shall also compensate Company for loss of customs duty/ draw back/penalty etc. Otherwise, the loss of customs duty/ draw back/ penalty etc. will be to Company's account.

6.3 Every processing step shall include detailed testing of parameters.

6.4 The seismic data interpretation only starts after completion of entire processing work.

7.0 Personnel and Equipment:

7.1 The Contractor shall supply all personnel, equipment and facilities necessary for the successful completion of the work and fulfillment of the given production guarantee. However, minimum requirement of personnel and equipment are listed vide Annexure - I & II.

7.2 The processing work needs to be supervised by an experienced processing geophysicist. He/ she should have in-depth knowledge in land 3D-3C data processing.

7.3 The interpretation work needs to be carried out by an experienced interpretation geophysicist. He/ she should have in-depth knowledge in land 3D-3C data interpretation.

8.0 Start of Work:

8.1 The Contractor must complete mobilization and commence work within 90 days from the date of issue of LOI by Company (para 2.0 under Section III refers). Company prefers that Contractor will mobilize all the required hardware and software for Processing and Interpretation in 60 days from the date of issue of LOI.

9.0 DATA / CARTRIDGE LIABILITY

10.1 Contractor shall be solely responsible for quality, loss or damage due to any reason including fire, theft, etc. of any documents / cartridge and other important documents / floppies etc. pertaining to the contract while in their custody or control

10.0 Deliverables and Schedule of Performance:

A. SEISMIC DATA PROCESSING

10.12 During the course of processing, the Contractor shall carry out detailed tests of all the processing parameters so as to achieve optimum processing sequence. The results of tests need to be certified by Company representatives in the processing center of the Contractor. The next step of the processing work will start only after the test results are finalized.

10.13 The Contractor shall provide weekly / monthly reports on the progress of data processing. The report shall include among others the step of processing and percentage of processing accomplished.

10.14 The contractor will also submit five (5) copies of report of seismic data processing within one(1) week of the completion of processing. Apart from the above, Contractor will submit the followings:

a) Soft Copies with appropriate information in SEG-Y header for the PP, PS (radial) or PS1 and PS2 (if required) data (i.e. two or three data sets) on IBM-3490E & portable hard disc in duplicate:

CMP /CCP gathers after residual statics application in SEG-Y format

CMP/ CCP gathers Pre-Stack Migration (PSTM) in SEG-Y format

Final Stack, Pre-Stack Time Migrated data, Post Stack Depth Migrated data and Final inverted volumes with and without scaling in SEG-Y format

Migration velocities in ASCII format

Seismic attributes data: SEG-Y format

Base map – CMP co-ordinates in digital format on film

b) Hard copies:

Displays of all parameter test results and QC checks

Final Stack and migration sections (PP, PS or PS1 and PS2) of every line and cross line in a scale of 25 traces/inch (horizontal) & 5 inches /sec (vertical)

Base map in scales 1: 10000, 1:25000 on film

CMP/CCP foldage map in scales 1: 25000

Display of Azimuthal parameters computation results (crack density).

B. SEISMIC DATA INTERPRETATION

10.15 The contractor will also submit five (5) copies of report of seismic data interpretation within one (1) week of the completion of processing. Apart from the above, Contractor will submit the followings:

a) Soft copy of the entire interpretation in an internationally accepted format;

b) Hard copy of the following:

All TWT and depth maps in three scales 1: 25000, 1: 50000 and 1: 100000

Display of Azimuthal parameters computation results (crack density) and interpretation

Individual / composite sand maps in three scales 1: 25000, 1: 50000 and 1: 100000

Elastic model and synthetic seismogram displays

Attribute maps (all components) along different picked horizons in three scales 1: 25000, 1: 50000 and 1: 100000 (values also may be given in ASCII and binary files)

Elastic and acoustic inversion displays

Fluid property interpretation results

Details of prospects/leads identified in the surveyed area

Volumetric calculations of these prospects/ leads

Identification for drilling of exploratory and development locations

11.0 Quality of Work:

11.1 Contractor shall carry out the services of 3D-3C data acquisition in a fully professional manner and warrant that the information produced shall be of a quality acceptable to the Company. If the quality of data acquired is not acceptable to the Company, the Contractor will undertake to re-perform that part of the services causing dissatisfaction at their own expense. Company's standard for the performance shall be the one accepted by the international standard of the Geophysical Industry.

11.2 Company reserves the right to examine status report of the processing system before commencement of work. The work will start only when the Company representatives are satisfied with the same.

13.0 Obligation of the Contractor:

13.1 Contractor at their cost shall arrange the clearance of all equipment, spare parts, consumable, etc. from customs and port authorities in India. Company will provide all reasonable assistance but the responsibility for clearance will rest with the Contractor. Any demurrage in this process will be at Contractor's cost.

13.2 Contractor shall arrange for inland transportation of all equipment, etc. from the port to the place of work and back at the end of the work at their own expense. Arrangement of Road Permits and payment of Assam Entry Tax for bringing Contractor's equipment / material to Work place shall be Contractor's responsibility.

13.3 Contractor shall arrange at their own cost all consumables & spares including papers, photographic materials, magnetic tapes/ cartridges, and other consumables and spares needed for the work and shall carry sufficient stocks of these for uninterrupted operation.

13.4 Contractor shall use cartridge tapes tested for zero error. Contractor shall maintain proper accounts of the consumption of explosives and detonators and shall submit daily, weekly and monthly consumption/ stock statements to the Company.

13.5 In case the Contractor imports the equipment etc. on re-export basis, the Contractor shall ensure for re-export of the equipment and all consumables and spares (except those consumed during the contract period) and complete all documentation required. Company will issue necessary certificates etc. as required.

13.6 Any other works required for efficient and successful execution of work shall be carried out by the Contractor except those enumerated under the obligations of the Company defined below.

13.7 Contractor should provide the list of items to be imported in the format specified in Proforma-I. Customs duty on CIF value of the items as specified in Proforma - I (the hardware and software should be shown separately) will be paid by the Company. Customs duty on any items in addition to above will have to be borne by the Contractor. Such payment of customs duty shall be arranged by Company after the Contractor submits the undisputed and clear necessary documents/duty assessment papers. Company's obligation for customs duty payment shall be limited / restricted to the applicable tariff rates on the CIF values of items as quoted by the Contractor or on actual whichever is less. Any increase in customs duty due to increase in CIF value upon importation shall be to Contractor's account.

13.8 The Contractor should arrange for re-export of equipment within 60 days of notice of demobilization issued by the Company/ completion of Work. If the re-export is not completed within the specified period, the Contractor shall pay interest (@ 12% per annum) on the duty drawback applicable for the additional days. Further, any loss of duty drawback for such delay shall be to Contractor's account and will be deducted by the Company from Contractor's bills and security deposit.

13.9 The Contractor should use latest versions of all software packages during the period of the contract.

13.10 The Contractor shall furnish the list with Bio-data of key personnel proposed to be deployed prior to the commencement of Work. The bio-data shall include the name, nationality, qualification, experience and passport details of the person.

13.11 The Contractor's expatriate and technical personnel must have thorough knowledge of English.

13.12 The Contractor's personnel must be sound enough to provide the above services in international standard, failing which Company reserves the right to ask for removal of any Contractor's personnel with 24 hours notice.

13.13 Any other work required for the efficient and successful execution of work shall be carried out by the Contractor except those enumerated under the obligation of the Company defined in para 14.0. Contractor will also provide Company accurate position of existing oil and gas wells in the blocks.

13.14 For work association and technology transfer, Company will depute 3-4 geoscientists during the data processing phase. Contractor must provide adequate office space for the Company representatives involved during processing. They also must provide fax, telephone with ISD facility and internet facilities to Company representatives at their office.

13.15 Contractor will make one copy of the field data and shall arrange for air-shipment/ dispatch of the same to the Contractor's processing centre. However, Company will provide all support to obtain necessary clearances from authorities in Government of India, if required. All field data sets required for processing provided by Company to be returned back.

13.16 For work association and technology transfer, Company will depute 3-4 geoscientists during the data interpretation phase. Contractor must provide adequate office space for the Company representatives involved during interpretation. They also must provide fax, telephone and internet facilities to Company representatives at their office.

13.17 Contractor must fill-up the check list as provided as Appendix (I) of Section IV of the bid document.

14.0 Obligation of the Company:

14.1 Company shall arrange to pay all the Indian customs duties leviable in India on Contractor's equipment as provided in Proforma -I (and on CIF value of the spares and consumables imported along with the respective equipment) or the actual whichever is less, provided the Contractor furnishes all necessary documents indicating the estimated customs duty at least 2 weeks in advance. Such payment of customs duty shall be arranged by Company and made available to the representatives of Contractor at Calcutta within 3 working days after the Contractor submits the undisputed and clear necessary documents/duty assessment papers at Company's office at Calcutta. Contractor would be responsible for passing such payments 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 values of the equipment, consumables etc. as quoted by the Contractor or on actual whichever is less. Company shall pay the customs duty on items specified by the Contractor in Proforma -I. Customs duty on account of any increase in the CIF value of the equipment / spares 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 any excess customs duty becomes payable, it shall be to the Contractor's account. Before filing Bill of entry, the Contractor must consult the Company to avoid payment of excess customs duty.

14.2 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.. In case payment of customs duty is delayed by Company beyond 3 working days of receipt of undisputed and clear duty assessment papers/ documents from Contractor as stipulated hereof any resulting demurrages shall be borne by the Company. Company shall provide all assistance by issuance of necessary letter of authority or other relevant documents and necessary help.

14.3 The Company shall provide, if required, all necessary documents for clearance from Govt. of India or States or their departments or undertakings and will extend all assistance and necessary help to the Contractor. The Contractor will give Company 45 days advance intimation for providing import license and clear 10 working days for providing essentiality certificate (EC from Directorate General of Hydrocarbons, New Delhi) provided all the documents submitted by the Contractor are in order. Any consequence due to delay will be to Company's account.

14.4 Company shall organize all possible help from local Government/ Administration to Contractor's personnel and equipment in case of natural disaster, civil disturbances and epidemics.

SECTION-V

SCHEDULE OF RATES

1.0 The Bidder shall quote for both the following options (**Option – I & Option – II**) given below separately. The Foreign Exchange (FE) and Non-convertible India Rupees (INR) should be quoted separately both in figures as well as words:

A. Option- I:

For carrying out the Processing & Interpretation jobs mentioned in Section-IV (Scope of work and Terms of reference) in Contractor's work place in any cities in India.

a) MOBILISATION COST (M):	<u>FE</u>	+	<u>INR</u>	
	(.....)		(.....)	

NOTE:

- i) Mobilisation cost should cover all local and foreign costs of the Bidder to mobilise the equipment to the appointed site including all local taxes, port fees and inland transport etc., but excluding Customs duty of the items declared in Proforma – I.
- ii) Mobilisation costs will be inclusive of transportation and other costs for all spares/ consumables/ accessories and equipment.
- iii) The Bidder will be required to furnish details in relation to the equipment listed under Annexure II as per the format given in Proforma -I.
- iv) The mobilization cost will be included under total cost of processing & Interpretation. This cost will not paid separately.

b) CHARGES FOR 3D-3C SEISMIC DATA PROCESSING (PROC)

	<u>FE</u>	+	<u>INR</u>	
Charges per SQKM for 3D-3C data processing of 150 SQKM full fold (50 fold) data acquired in addition to surrounding fold build-up area. The total 150 SQKM full fold data for two different blocks (100 SQKM + 50 SQKM)	(-----)		(-----)	

NOTE: i) Charges for 3D-3C data processing is for the sequence mentioned in Section-IV (Scope of Work / Terms of Reference). It should include all the charges for the equipment/accessories, spares, consumables, charges of contractor's personnel, processing tests, deliverables, office space for Company representatives, etc.

c) CHARGES FOR SPECIAL 3D-3C SEISMIC DATA PROCESSING (SPR)

	<u>FE</u>	+	<u>INR</u>	
Total charges for special 3D-3C data processing As per details in ANNEXURE–III	(-----)		(-----)	

NOTE: i) This will be considered for bid evaluation. Payment will be made on actual work done.

d) CHARGES FOR 3D-3C SEISMIC DATA INTERPRETATION (INTERP)

	<u>FE</u>	+	<u>INR</u>
Lump sum charges for 3D-3C data interpretation of 150 SQ.KM full fold data for two different blocks (100 SQKM +50 SQKM) in addition to surrounding fold build-up area	(-----)		(-----)

NOTE: Charges for 3D-3C data interpretation is for the scope of work mentioned in Section- IV (Scope of Work / Terms of Reference). It should include all the charges for the equipment/accessories, spares, consumables, charges of contractor's personnel, deliverables, office space for Company representatives, etc.

B. Option - II

For carrying out the Processing & Interpretation jobs mentioned in Section-IV (Scope of work and Terms of reference) in Contractor's own work place in any cities out side India.

a) CHARGES FOR 3D-3C SEISMIC DATA PROCESSING (PROC)

	<u>FE</u>	+	<u>INR</u>
Charges per SQKM for 3D-3C data processing of 150 SQKM full fold (50 fold) data acquired including surrounding fold build-up area. The total 150 SQKM full fold data for two different blocks (100 SQKM + 50 SQKM)	(-----)		(-----)

NOTE: i) Charges for 3D-3C data processing is for the sequence mentioned in Section-IV (Scope of Work / Terms of Reference). It should include all the charges for the equipment/accessories, spares, consumables, charges of contractor's personnel, processing tests, deliverables, office space for Company representatives, etc.

b) CHARGES FOR SPECIAL 3D-3C SEISMIC DATA PROCESSING (SPR)

	<u>FE</u>	+	<u>INR</u>
Total charges for special 3D-3C data processing As per details in ANNEXURE-III	(-----)		(-----)

NOTE: i) This will be considered for bid evaluation. Payment will be made on actual work done.

c) CHARGES FOR 3D-3C SEISMIC DATA INTERPRETATION (INTERP)

	<u>FE</u>	+	<u>INR</u>
Lump sum charges for 3D-3C data interpretation of 150 SQ.KM full fold data for two different blocks (100 SQKM + 50 SQKM) including surrounding fold build-up area	(-----)		(-----)

NOTE: Charges for 3D-3C data interpretation is for the scope of work mentioned in Section- IV (Scope of Work / Terms of Reference). It should include all the charges for the equipment/accessories, spares, consumables, charges of contractor's personnel, deliverables, office space for Company representatives, etc.

SECTION VI

SPECIAL CONDITIONS OF CONTRACT

1.0 ASSOCIATION OF COMPANY'S PERSONNEL :

1.1 Company's geophysicists will be associated with the work through out the operations. The Contractor shall execute the work of seismic data acquisition with professional competence and in an efficient and workman like manner and provide Company with a standard of work customarily provided by reputed geophysical Contractors to major international oil companies in the petroleum industry.

1.2 The final field parameters will be decided with prior approval of the Company's representatives after conducting the field tests and test processing. Contractor shall not change any parameters without prior approval of Company's representative.

2.0 PROVISION OF PERSONNEL AND FACILITIES

2.1 The Contractor shall provide the Key personnel, as given in Annexure-I, for consultancy, quality control and data acquisition.

2.2 All the personnel mentioned in Annexure-I must have requisite experience in respective fields and should be fluent in English language. On Company's request, Contractor shall remove and replace at their own expenses, any of their personnel whose presence is considered undesirable in the opinion of the Company. The Contractor shall provide the Indian Staff at their own expenses.

2.3 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 extra charges to the Company.

2.4 Bidder shall furnish the list of equipment with type, make, year of manufacture with supporting documents alongwith their offer.

3.0 CONFIDENTIALITY OF INFORMATION

3.1 All information obtained by Contractor in the conduct of operations and the information/maps provided by the Company to the Contractor shall be considered confidential and shall not be divulged by Contractor or its employees to any one other than the Company's personnel. This obligation of Contractor shall be in force even after the termination of the contract.

4.0 PAYMENT, MANNER OF PAYMENT, INVOICES

4.1 Company shall pay to the Contractor, during the term of the contract. No other payments shall be due from Company unless specifically provided for in this contract.

4.2 Payments due by Company to Contractor hereunder shall be made at Contractor's designated bank with Reserve Bank of India (RBI)'s approval. Bank charges, if any, will be on account of the Contractor.

5.3 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 within notice of objection to any item or items the validity of which the Company questions.

5.4 The Contractor shall raise invoice covering data processing charges for each block on completion of acceptable final output of the data processed including submission of processing report and all deliverables.

5.5 The Contractor shall raise invoice covering data interpretation charges for each block on completion of acceptable final output of the data interpreted including submission of interpretation report and all deliverables.

5.6 Contractor will submit six sets of all invoices to the Company for processing payment. Separate invoices for the charges payable under the contract shall be submitted by the Contractor for foreign currency and Indian currency.

5.7 Company shall within 20 days of receipt of the invoice notify the Contractor of any item under dispute, specifying the reasons thereof, in which event, payment of the disputed amount may be withheld until settlement of the dispute, but payment shall be made of any undisputed portion on or before the due date. This will not prejudice the Company's right to question the validity of the payment at a later date as envisaged in para 5.3 above.

5.8 The acceptance by Contractor of part payment or interest on any billing not 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.

5.9 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.

6.0 RATE OF PAYMENT

6.1 Company shall make the payments to the Contractor as per the quoted rates as referred to in Section V which rates include all applicable taxes and duties leviable under the contract.

7.0 LIABILITY

7.1 Except as otherwise expressly provided, neither Company nor its servants, agents, nominees, Contractors, or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss of or damage to the property of the Contractor and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Company and/or its servants, agent, nominees, assignees, contractors and sub-Contractors. The Contractor shall protect, defend, indemnify and hold harmless Company from and against such loss or damage and any suit, claim or expense resulting therefrom.

7.2 Neither Company nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever for injury to, illness, or death of any employee of the Contractor and/or of its Contractors or sub-contractor irrespective of how such injury, illness or death is caused and even if caused by the negligence of Company and/or its servants, agents nominees, assignees, Contractors and sub-contractors. Contractor shall protect, defend, indemnify and hold harmless Company from and against such liabilities and any suit, claim or expense resulting therefrom.

7.3 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.

7.4 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.

7.5 Except as otherwise expressly provided, neither Contractor nor its servants, agents, nominees, Contractors or sub-contractors shall have any liability or responsibility whatsoever to whomsoever for loss of or damage to the equipment and/or loss or damage to the property of the Company and/or their Contractors or sub-contractors, irrespective of how such loss or damage is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. The Company shall protect, defend, indemnify and hold harmless Contractor from and against such loss or damage and any suit, claim or expense resulting therefrom.

7.6 Neither Contractor nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever to whomsoever or injury or illness, or death of any employee of the Company and/or of its Contractors or sub-contractors irrespective of how such injury, illness or death is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, Contractors and sub-contractors. Company shall protect, defend indemnify and hold harmless Contractor from and against such liabilities and any suit, claim or expense resulting therefrom.

7.7 The Company agrees to waive its right of recourse and further agrees to cause its underwriters to waive their right of subrogation against Contractor and /or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for loss or damage to the equipment of Company and/or its contractors or sub-contractors when such loss or damage or liabilities arises out of or in connection with the performance of the contract.

7.8 The Company hereby further agrees to waive its right of recourse and agrees to cause it underwriters to waive their right of subrogation against Contractor and/or its underwriters, servants, agents, nominees, assignees, Contractors and sub-contractors for injury to, illness or death of any employee of the Company and of its Contractors, sub-contractors and/or their employees when such injury, illness or death arises out of or in connection with the performance of the Contract.

8.0 CONSEQUENTIAL DAMAGE

8.1 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.

9.0 WAIVERS AND AMENDMENTS

9.1 It is fully understood and agreed that none of the 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 authorised agents or representatives of such party. The failure of either party to execute any right of termination shall not act as a waiver or amendment of any right of such party provided hereunder.

10.0 INDEMNITY AGREEMENT

10.1 Except as provided hereof Contractor agrees to protect, defend, indemnify and hold Company harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Contractor's employees, agents, contractors and sub-contractors or their employees on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

10.2 Except as provided hereof Company agrees to protect, defend, indemnify and hold Contractor harmless from and against all claims, suits, demands and causes of action, liabilities, expenses, cost, liens and judgments of every kind and character, without limit, which may arise in favour of Company's employees, agents, contractors and sub-contractors or their employees on account of bodily injury or death, or damage to personnel/property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

11.0 INDEMNITY APPLICATION

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

12.0 WITH-HOLDING

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

- a) For non-completion of jobs assigned as per Section IV.
- 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 five days after demand is made by Company, fail to pay and discharge such indebtedness, then Company may during the period for which such indebtedness shall remain unpaid, with-hold from the amounts due to Contractor, a sum equal to the amount of such unpaid indebtedness.

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

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

iv) Any payment due from Contractor in respect of unauthorised imports.

When all the above grounds for with-holding 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/ indirectly related to some negligent act or omission on the part of Contractor.

13.0 APPLICABLE LAW

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

13.2 The Contractor shall ensure full compliance of various Indian Laws and Statutory Regulations, to the extent applicable, as stated below, but not limited to, in force from time to time and obtain necessary permits/licenses etc. from appropriate authorities for conducting operations under the Contract :

- a) The Mines Act - as applicable to safety and employment conditions.
- b) The Minimum Wages Act, 1948.
- c) The Oil Mines Regulations, 1983.
- d) The Workmen's Compensation Act, 1923.
- e) The Payment of Wages Act, 1963.
- f) The Payment of Bonus Act., 1965.
- g) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed 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.
- l) Service Tax Act.
- m) Customs & Excise Act & Rules
- n) Assam Entry Tax Act, 2001

14.0 SUBSEQUENTLY ENACTED LAW

Subsequent to the date of submission of offer by Contractor if there is a change in 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 this Contract, Company/Contractor shall reimburse/pay Contractor/Company for such additional/ reduced cost actually incurred.

Estimated value of Equipment, Accessories, Spares & Consumables on date of entry into India

(Mobilisation)

Sl. No	Items	Quantity	Vintage	Re-exportable (Yes/No)	CIF Value (India)			Port Charges	Inland Transport cost	Any other charge	Total Cost
					Estd. Actual	Freight to Calcutta	Insu. Cost				

(Signature of the Bidder)

STATEMENT OF COMPLIANCE
(Only exclusions & deviations to be rendered)

SECTION NO.	CLAUSE NO.	COMPLIANCE/NON COMPLIANCE	REMARKS

(Authorized Signatory)
Company_____

BID FORM

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

Sub : **Tender No. OIL/CCO/GPHY/GLOBAL/219/2008**

To,

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 calculated from the date of award of Contract.

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

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

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

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

Dated this _____ day of _____ 2008.

Signature

(In the capacity of)

FORM OF PERFORMANCE BANK GUARANTEE

To : HEAD-CONTRACTS
OIL INDIA LIMITED,
Duliajan, Assam, India, Pin - 786 602.

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

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

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

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

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

SIGNATURE AND SEAL OF THE GUARANTORS _____
Designation _____
Name of Bank _____
Address _____

Date Place _____

CONTRACT FORM

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

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

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

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

WHEREAS Contractor has accepted Company's Letter of Award vide their letter No. _____.

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

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

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract referred to.

2. In addition to documents hereinabove, the following Sections and Annexures attached herewith shall be deemed to form and be read and construed as part of this agreement viz. :

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

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

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

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

Signed, Sealed and Delivered,

For and on behalf of
Company (Oil India Limited)

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

Name :

Name :

Status :

Status :

In presence of

In presence of

1.

1.

2.

2.

FORM OF BID SECURITY (BANK GUARANTEE)

To : M/s. OIL INDIA LIMITED,
(for Chief Manager –Contracts),
Duliajan, Assam, India, Pin - 786 602.

WHEREAS, (Name of Bidder) _____ (hereinafter called "the Bidder") has submitted their offer Dated _____ for the provision of certain oilfield services (hereinafter called "the Bid") against OIL INDIA LIMITED, Duliajan, Assam, India (hereinafter called the Company)'s Tender No. OIL/CCO/GPHY/GLOBAL/219/2008. 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 _____ 2004.

THE CONDITIONS of this obligations are :

(1) If the Bidder withdraws / modifies their Bid during the period of Bid validity specified by the Bidder; or

(2) If the Bidder, having been notified of acceptance of their Bid by the Company during the period of Bid validity:

(a) Fails or refuses to execute the form of Contract in accordance with the Instructions to Bidders; or

(b) Fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

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

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

SIGNATURE AND SEAL OF THE GUARANTORS _____

Name of Bank & Address _____

Date Place _____

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

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

PROFORMA LETTER OF AUTHORITY

TO

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

Sir,

Sub : Tender No. OIL/CCO/GPHY/GLOBAL/219/2008

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

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

Yours Faithfully,

Signature : _____
Name & Designation: _____
For & on behalf of: _____

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

SECTION-VII

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

I BID REJECTION CRITERIA (BRC)

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

1.0 Technical

1.1 Any offer which does not include all the jobs / services mentioned in the Terms of Reference / Technical specifications will be considered as incomplete and rejected.

1.2 Any Bid will be rejected if it does not conform to the technical requirements as mentioned in the Section IV, Terms of reference/Technical specifications.

1.3 Bidder must have State -of- the- art Processing Center for carrying out detailed Seismic Data Processing. Bidder must have minimum 2 years of experience in processing and must have processed at least 400 sq. km. of 3D-3C land seismic data using industry standard advanced processing software package. Necessary documentary evidence to this effect must be submitted along with the technical bid, otherwise the bid will be rejected.

1.4 Bidder must have independent experience of completing at least two nos. of 2D-3C and/or 3D-3C seismic data interpretation projects in last three years using industry standard interpretation package of international repute in workstation environment. Necessary documentary evidence to this effect must be submitted along with the technical bid, otherwise the bid will be rejected.

1.5 For Seismic data processing job, bidder must arrange for one Processing Manager (Geophysicist) & minimum two Processing Geophysicists. The Processing Manager must have at least 10 years experience, while both the geophysicists must have at least 8 years of experience each in processing of seismic data for oil exploration as mentioned in **Annexure-I**. Any bid not meeting this criterion is liable for rejection.

1.6 For interpretation job, bidder must arrange for one Group Leader (Geophysicist) & minimum two Geoscientists (one Geologist and one Geophysicist). The Group Leader must have at least 12 years experience, while both geoscientists must have at least 8 years of experience each in interpretation of seismic data for oil exploration as mentioned in **Annexure-I**. Any bid not meeting this criterion is liable for rejection.

1.7 The minimum experience requirement of key personnel and equipments are provided in **Annexure-I & II**. The bid will be rejected if the requirement/ experience of personnel and vintage of equipment are not as per the said Annexure (s). Bidder has to answer all the questions regarding experience, expertise, hardware/software etc. as per **Annexure- IV**, failing which bid will be rejected.

1.8 The Bidder should be able to collect the data within 60 **days** from the date of issue of notification of award of contract (Letter of Award) and start work within 7 **days** thereafter.

1.9 The Bidder shall submit the bid independently. Any type of collaboration/ joint venture/ strategic partnership etc. is not allowed, failing which the bid will be rejected.

2.0 Commercial

2.1 The bids are to be submitted in a single stage under 2(two) bid system i.e. Technical bid (unpriced) and Commercial bid (priced) together. Both the bids should be identical except that only the Commercial bid should contain the quoted price.

2.2 The Bidder shall furnish Bid Security along with Bid as referred to in Para 10 of Section II. Bid security shall be furnished as a part of technical bid. The amount of bid security should be as specified in the 'Forwarding letter'. Any bid not accompanied by a proper bid security will be rejected.

2.3 Any bid received in the form of Telex/Cable/Fax/Email will not be accepted.

2.4 Bid shall be typed or written in indelible ink and original bid shall be signed by the Bidder or their authorized representative on all pages failing which the bid will be rejected.

2.5 Bid shall contain no interlineation, erasures or overwriting except as necessary to correct errors made by Bidder, in which case such corrections shall be initialed by the person(s) signing the bid. However, white fluid should not be used for making corrections. Any bid not meeting this requirement shall be rejected.

2.6 Any bid containing false statement will be rejected.

2.7 Bidders must quote clearly and strictly in accordance with the price schedule outlined in Price Bid Proforma of bidding documents; otherwise the bid will be rejected.

2.8 There should not be any indication of price, CIF value etc. in the technical bid. A bid will be straightway rejected if these are given in the technical bid.

2.9 The bid documents are not transferable. Offers made by Bidders who have not been issued the Bid Documents from the Company will not be considered at all.

2.10 Offers quoted by Indian agents on behalf of their foreign principals will not be accepted and the same will be summarily rejected.

2.11 Any Bid received by the Company after the deadline for submission of bids prescribed by the Company will be rejected.

2.12 Price quoted by the successful Bidder must be fixed during the entire execution period of the contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

2.13 Bidder shall quote clearly and exactly as per **Annexure-III** failing which the bid will be rejected.

2.14 The following Clauses with all its sub-clauses should be agreed in toto, failing which the bid will be rejected.

- Performance Security Clause
- Taxes Clause
- Insurance Clause
- Force Majeure Clause
- Termination Clause
- Arbitration Clause

- Liability Clause
- Withholding Clause
- Applicable Law Clause
- Obligation of Contractor Clause

3.0 GENERAL

3.1 **Proforma II - The compliance statement should be duly filled up and signed by the bidder.** In case the Contractor takes exception to any clause of tender 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. No deviation will however, be accepted in the clauses covered under BRC.

3.2 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 clarification fulfilling the BRC clauses in toto must be received on or before the deadline given by the Company, failing which the offer will summarily rejected.

3.3 If any of the clauses in the BRC contradict with other clauses of bidding document elsewhere, then the clauses in the BRC shall prevail.

3.4 Any exception/ deviation to tender must be spelt out by bidder in their 'Technical Bid' only. Any additional information/terms/conditions furnished in sealed 'Commercial (Priced) Bid' will not be considered by OIL for evaluation/ award of Contract.

II BID EVALUATION CRITERIA

1.1 The bids conforming to the technical specifications, terms and conditions stipulated in the tender 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.

1.2 To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as under, subject to corrections/ adjustments as given herein below:

1.3 Commercial Bids shall be evaluated taking into account the summation of the following:

- a) Charges for 150 SQ.KM of full fold 3D-3C seismic data processing: 150 x PROC
- b) Lumpsum Charges for interpretation of 150 SQ.KM processed data: INTERP
- c) Customs duty as applicable, net of duty drawback , with CIF value on the imported items as provided in **Proforma -I** . The details of hardware and software should be provided separately in **Proforma -I**.

1.4 **Commercial bid evaluation:** The total financial outgo (say, Total A) for evaluation purposes will be calculated as follows:

Total A = 150 x PROC + INTERP + Net Customs duty (as indicated in 1.3 (c) above).

Note: 1) The items mentioned in above mentioned clauses are to be read in conjunction with Section V.
2) The quantum mentioned above is for evaluation purposes only. However payment will be made as per actuals.

LIST OF KEY PERSONNEL TO BE DEPLOYED BY CONTRACTOR**A. DATA PROCESSING**

Sl. No.	Position	Work Experience	No. of Personnel	Remarks
1	Processing Manager	10 yrs in land processing	1	With minimum three projects in land 3D-3C data processing
2	Processing Geophysicist	8 yrs in land processing	2	With minimum two projects in land 3D-3C data processing

B. DATA INTERPRETATION

Sl. No,	Position	Work Experience	No. of Personnel	Remarks
1	Group Leader (Geophysicist)	12 yrs in land data interpretation	1	With minimum three projects in land 3D-3C data interpretation
2	Interpretation Geologist	8 yrs in land data interpretation	1	With minimum two projects in land 3D-3C data interpretation
3	Interpretation Geophysicist	8 yrs in land data interpretation	1	With minimum two projects in land 3D-3C data interpretation

Note :

1. The interpretation needs to be carried out by a group of Geoscientists to be decided by the bidder. The group must comprise of Interpretation Geologist & Geophysicist as indicated above.

2. The above lists indicate the minimum requirement of key personnel and their experience. The Bidder may choose other personnel e.g. geophysicists, geologists, petrophysicists, petroleum engineers & other technical personnel that the Bidder would like to deploy to accomplish the job as per the defined parameter and time frame.

3. The detailed bio-data of key personnel must be submitted with the technical bids. The Bidder's key personnel must be proficient and fluent in English.

A. EQUIPMENT & ACCESSORIES (DATA PROCESSING)

- i) **Server:** An industry standard main server system which is capable/suitable for carrying out seamless processing job of around 300 Sq.KM of 3D-3C data to be completed within stipulated time period mentioned in 'Period of Contract' of NIT under Clause no. 6.0.
- ii) **Workstations:** High-end PC based workstations equipped with CD/DVD read-write, Floppy Drive and dual 24" LCD Monitor.
- iii) **Drives for I/O:** Exabyte (8") 170m compatible tape drive, Capacity- 7.00 GB native, suitable interface to connect to the server
LTO-2 or above, suitable interface to connect to the server
DLT-8000, suitable interface to connect to the server
Portable hard disc, capacity around 300 GB, suitable interface to connect to the server
- iv) **Plotter:** Colour inkjet plotter A0/A1 size
- v) **UPS:** UPS for the whole system
- vi) Proper interfaces and I/O ports to connect the above devices with server
- vii) **Software Packages:** Most suitable industry standard software packages required for processing of 3D-3C stipulated in technical specifications mentioned under 'Method of Work' in SECTION-IV. The software packages 3D-3C processing are preferably ProMC and Kingdom Suits. In addition, other software required for processing are Geo-Depth, Focus/ ProMax/ Vista/Geo-Vector, GLI-3D and HR software suit etc.

B. EQUIPMENT & ACCESSORIES (DATA INTERPRETATION)

- i) **Server:** An industry standard main server system which is capable/suitable for carrying out seamless interpretation job of around 300 Sq.KM of 3D-3C data to be completed within stipulated time period mentioned in 'Period of Contract' of NIT under Clause no. 6.0.
- ii) **Workstations:** High-end PC based workstations equipped with CD/DVD read-write, Floppy Drive and dual 24" LCD Monitor.
- iii) **Drives for I/O:** Exabyte (8") 170m compatible tape drive, Capacity- 7.00 GB native, suitable interface to connect to the server
LTO-2 or above, suitable interface to connect to the server
DLT-8000, suitable interface to connect to the server
Portable hard disc, capacity around 300 GB, suitable interface to connect to the server
- iv) **Plotter:** Colour inkjet plotter A0/A1 size
- v) **UPS:** UPS for the whole system
- vi) Proper interfaces and I/O ports to connect the above devices with server
- vii) **Software Packages:** Most suitable industry standard software packages required for interpretation of 3D-3C stipulated in technical specifications mentioned under 'Method of Work' in SECTION-IV. The software packages preferably ProMC (Multi-component seismic interpretation), Voxel-Geo, Geo-Cluster, Geo-Frame, SeisWorks and HR software suits etc.

EQUIPMENT AND ACCESSORIES

Technical Details of Equipment for Data Processing and Interpretation

The quantity and the type of equipment to be deployed for carrying out 3D-3C Seismic **Data Processing and Interpretation** must conform to the latest industry standards and should have the minimum vintage with details to be provided as below:

A. Technical details of equipment and software for processing to be provided by Bidder

- i) System Configurations
- ii) Details of complete Seismic processing packages

B. Technical details of equipment and software for interpretation to be provided by Bidder

- i) Type of Seismic Interpretation system (Workstation)
- ii) System Configuration
- iii) Plotting Hardware
- iv) Interpretation and Application Software
- v) Mapping Software

NOTE: Hardware of Processing system and Interpretation system shall not be older **than five (05) years from the bid opening date**. Contractor must use latest advanced Application software for Seismic data processing & Interpretation work.

SUMMARY OF RATES TO BE QUOTED BY THE BIDDER

ITEM	UNIT	QUANTITY	UNIT PRICE		TOTAL PRICE	
			FE	INR	FE	INR
A. Charges for 150 SqKM Full Fold 3D-3C data processing	Per Sq. Km.	150 Sq. Km.				
B. Lumpsum Charges for Interpretation of 150 SQ.KM processed data	Lumpsum	Lumpsum				
C. Cost of provisional Anisotropic (VTI) pre-stack time migration of P-S data	Per Sq. Km.	50 Sq. Km.				
D. Cost of Provisional Pre-stack depth migration processing of 3D-3C data	Per Sq. Km.	50 Sq. Km.				
E. Cost of provisional AVO Processing / Analysis of 3D-3C data	Per Sq. Km.	50 Sq. Km.				
Total Price : A+B+C+D+E						
Total CIF value of re-exportable items						
Total CIF value of consumables (Non re-exportable items)						
Indian Agency Commission, if any (included in above)						

Note : 1. F. E. – Foreign Exchange
INR – Indian Rupees

2. The quantity mentioned is purely for evaluation purpose only.
However, payment shall be made as per actuals.

Signature of the Bidder

QUESTIONNAIRE ON EXPERIENCE, EXPERTISE, HARDWARE/SOFTWARE ETC.

EXPERIENCE/EXPERTISE

A. PROCESSING

QUESTION NO.1 : Describe the major projects for processing of **2D-3C and /or 3D-3C** seismic data during the last 3 (three) years giving the following information for each project :

- a. Name of the client company, address, fax no., telephone no., name of the contact person.
- b. Place where the project was executed.
- c. Starting and completion date of the project.
- d. Total GLKM / SQKM processed in the project.
- e. Documentary evidence in the form of satisfactory performance certificate from the client must be enclosed.

QUESTION NO.2 : Do you have any processing projects currently in progress? If yes, specify the following :

- a. Client's name.
- b. Client's address.
- c. Fax/telephone no./name of the contact person.
- d. Volume of the project in terms of GLKM/ SQKM.
- e. Expected date of completion of the project.

QUESTION NO.3 : Configuration and specification of the hardware which you will use in case this contract is awarded to you.

QUESTION NO.4 : Steps of job flow which you will follow for this work.

QUESTION NO.5 : List of the functional modules of the processing software for the project.

QUESTION NO.6 : System software and application software which will be utilized in the processing of **3D-3C** seismic data.

B. INTERPRETATION

QUESTION NO.1 : Describe the major projects for interpretation of **2D-3C and /or 3D-3C** seismic data during the last 3 (three) years giving the following information for each project :

- a. Name of the client company, address, fax no., telephone no., name of the contract person.
- b. Place where the project was executed.
- c. Starting and completion date of the project.
- d. Total GLKM/SQKM data interpreted in the project.
- e. Documentary evidence in the form of satisfactory performance certificate from the client must be enclosed.
- f. Basin/ play type dealt during interpretation

QUESTION NO.2 : Do you have any interpretation projects currently in progress? If yes, specify the following :

- a. Client's name.
- b. Client's address.
- c. Fax/telephone no./name of the contact person.
- d. Volume of the project in terms of GLKM/ SQKM.
- e. Expected date of completion of the project

QUESTION NO.3: Configuration and specification of the hardware which you will use in case this contract is awarded to you.

QUESTION NO.4 :Steps of job flow which you will follow for this work.

QUESTION NO.5 : List of the functional modules of the interpretation software for the project.

QUESTION NO.6 : The system software and application software which will be utilized in the interpretation of **3D-3C** seismic data, wire line log evaluation, and integration of other geoscientific data, etc.