

**OIL INDIA LIMITED**  
**RAJASTHAN PROJECT**  
**JODHPUR**

**TENDER**

FOR

**HIRING OF CONSULTANCY SERVICES FOR  
EXPLOITATION OF HEAVY OIL FROM BIKANER-  
NAGOUR BASIN.**

**TENDER/ IFB NO. : CJG3289P15**

**APRIL'2014**  
**JODHPUR**

**TABLE OF CONTENTS**  
(TENDER NO.: C/JG3289P15)

<b><u>CONTENTS</u></b>	<b><u>PAGE NO.</u></b>
Forwarding Letter	5
<b>PART-1</b>	
<b>SECTION – I : INVITATION FOR BIDS</b>	
1.0 Invitation for Bids	7
2.0 Description of Services	7
<b>PART-1</b>	
<b>SECTION – II : INSTRUCTION TO BIDDERS</b>	
1.0 Bidding Document	8
2.0 Amendments to Bidding Document	8
3.0 Preparation of Bids	8
4.0 Documents Comprising the Bid	9
5.0 Bid Pirce	9
6.0 Currencies of Bid and Payment	9
7.0 Bid Security	10
8.0 Period of Validity of Bids	11
9.0 Submission of Bids	11
10.0 The Integrity Pact	14
11.0 Indian Agents	15
12.0 Deadline for Submission of Bids	15
13.0 Extension of Bid Submission Date/Time	16
14.0 Format for Bid Submission	16
15.0 Modification and Withdrawal of Bids	16
16.0 Bid opening and evaluation	17
17.0 Award of Contract	19
18.0 Performance Security	19
19.0 Mobilization Advance Payment	21
<b>PART-2</b>	
<b>SECTION – I : BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)</b>	
1.0 Bid Rejection Criteria (BRC)	23
2.0 Bid Evaluation Criteria (BEC)	28
3.0 Proforma –I : Statement of Compliance	29
4.0 Proforma –II : Price Bid Format	30
5.0 Proforma –III : Integrity Pact	34
<b>PART-3</b>	
<b>SECTION – I : GENERAL CONDITIONS OF CONTRACT</b>	
1.0 Definitions	39
2.0 Effective Date, Mobilization Time, Commencement Date, Duration	40
3.0 General Obligation of Contractor	40
4.0 General Obligation of the Company	40
5.0 Personnel to be deployed by the Contractor	41
6.0 Warranty and Remedy of Defects	41

7.0	Confidentiality, Use of Contract Documents and information	42
8.0	Taxes	42
9.0	Insurance	43
10.0	Changes	44
11.0	Force Majeure	45
12.0	Termination	45
13.0	Settlement of Disputes and Arbitration	47
14.0	Notices	47
15.0	Subcontracting/ Assignment	47
16.0	Miscellaneous Provisions	47
17.0	Association of Company's Personnel	48
18.0	Labour	48
19.0	Liability	48
20.0	Consequential Damage	49
21.0	Indemnity Agreement	50
22.0	Set-Off	51
23.0	With-Holding	51
24.0	Applicable Laws	52
25.0	Records, Reports and Inspection	52
26.0	Subsequently Enacted Laws	53
27.0	Royalty and Patents	53
28.0	Waiver & Amendments	53
29.0	Granting Price Preference	53

**PART-3**

**SECTION – II : SPECIAL TERMS & CONDITIONS OF CONTRACT**

1.0	Payment Terms	55
2.0	Invoicing Procedure	55
3.0	Taxes and Duties	56
4.0	Subsequently Enacted Laws	56
5.0	Applicable Laws	56
6.0	Insurance	57
7.0	Liquidated Damages	57

**PART-3**

**SECTION – III : BID FORM**

1.0	Bid Form	58
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**PART-3**

**SECTION – IV : SCOPE OF WORK/TERMS OF REFERENCE**

1.0	Introduction	59
2.0	Definitions	59
3.0	Abbreviated Terms	61
4.0	Scope	61
5.0	Applicable Documents	62
6.0	Operating Area	64
7.0	Region Stratigraphic	66
8.0	Hydrocarbon Prospect	68
9.0	HSE Design Guideline	70
10.0	Project Management	70
11.0	Information System/Technology	71
12.0	Broad Scope of Work	71
13.0	Project Time Line	78
14.0	Reports & Deliverables	81

15.0	Consultant Personnel	84
16.0	Definition of Application Charges	89
17.0	Safety, Health and Environment	90
18.0	Technical Tender Proposal Required Document	92
19.0	Annexure-I (Time Schedule)	93
20.0	Annexure-I (a,b ,c) [Available Technical Data]	96-98
21.0	Figure -1 (Map of Study Area)	99
22.0	Appendix-I (3D Acquisition Parameters)	100-101
	<b>PART-4</b>	
	<b>PROFORMA- A : FORM OF BID SECURITY (BANK GUARANTEE)</b>	102
	<b>PART-4</b>	
	<b>PROFORMA- B : FORM OF PERFORMANCE BANK GUARANTEE</b>	103
	<b>PART-4</b>	
	<b>PROFORMA- C : SAMPLE FORM OF AGREEMENT</b>	104
	<b>PART-4</b>	
	<b>PROFORMA- D : PROFORMA LETTER OF AUTHORITY</b>	105

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ऑयल इंडिया लिमिटेड  
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुलोजर, असम  
**Oil India Limited**  
(A Government of India Enterprise) Registered Office: Dulojar, Assam

**Materials & Contracts Department  
(Rajasthan Project)**

2A, Dist. Shopping Centre,  
Saraswati Nagar  
Jodhpur . 342 005  
Rajasthan, India.  
Phone -0291-2729473  
Fax : 0291-2727050  
Email: km\_kumar@oilindia.in

Date: 24.04.2014

**FORWARDING LETTER**

**Tender No. : CJG3289P15**

M/s-----  
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**Sub: Hiring Of Consultancy Services For Exploitation Of Heavy Oil**

1.0 OIL INDIA LIMITED (OIL), Government of India Enterprise, is a premier oil Company engaged in exploration, production and transportation of crude oil & natural gas. In connection with its drilling and exploration activities for hydrocarbon at RAJASTHAN PROJECT, OIL invites ONLINE **International Competitive Bids (ICB)** for Hiring of Consultancy Services for Exploitation of Heavy Oil from Bikaner - Nagaur Basin.

For your ready reference, few salient features (Covered in details in this bid document) are highlighted below.

- |      |  |   |   |
|------|--|---|---|
| i)   | OIL's Tender No                        | : | CJG3289P15 dated 19.04.2014   |
| ii)  | Tender Fee                             | : | ₹ 40,000.00 <b>OR</b> US\$ 658.00                                       |
| iii) | Type of Bid                            | : | <b>Single Stage Two Bid System</b>                                      |
| iv)  | Bid Closing Date & Time                | : | 10.06.2014 at 11.00 hrs (IST)   |
| v)   | Bid Opening (Technical)<br>Date & Time | : | 10.06.2014 at 15.00 hrs (IST)   |
| vi)  | Bid Opening Place                      | : | Office of Chief Manager (M&C),<br>Oil India Limited, Jodhpur, Rajasthan |
| vii) | Amount of Bid Security                 | : | ₹ 36,25,000.00 <b>OR</b> US\$ 59,641.00<br>(Non- interest bearing)      |

- viii) Amount of Performance Security : 7.5 % of 1 (One) Year Contract Value
- ix) Mobilization Time : 25 days from the date of issue of Letter of Award (LOA).
- x) Liquidated Damage for timely Mobilization : Liquidated damages shall be applicable for default in timely Mobilization @ 0.5% per week of the total estimated agreement value (including mobilization cost) for delay in mobilization per week or part thereof subject to maximum of 7.5% of 1 (One) Year Contract Value .
- xi) Duration of Contract : 40 months from the date of commencement.

2.0 We now look forward to receive your most competitive offer in line with the tender terms well within the bid closing date and time

Yours faithfully

OIL INDIA LIMITED

**(P.C. MAZUMDAR)**  
**CHIEF MANAGER (M&C)**  
**FOR EXECUTIVE DIRECTOR (RP)**

Part-1  
**SECTION – I**  
**INVITATION FOR BIDS**

- 1.0 Oil India Limited (OIL) invites competitive ON-LINE Bids for the following services under Single Stage Two Bid System for its RAJASTHAN PROJECT through e-Procurement portal <https://etender.srm.oilindia.in/irj/portal>
- 1.1 IFB No. : CJG3289P15 dated 19.04.2014
- 1.2 Bid Closing Date : 10.06.2014  
& Time : (11:00 Hrs. IST)
- 1.3 Tender Fee : ₹ 40,000.00 OR US\$ 658.00
- 1.4 Bid Security : ₹ 36,25,000.00 OR US\$ 59,641.00
- 2.0 **Description of Services:** Hiring of Consultancy Services for Exploitation of Heavy Oil from Bikaner - Nagaur Basin.
- 3.0 Tender Document will not be issued physically by Company. Bidders who have not participated in OIL's e-tender earlier must mention "New Bidder" in the application form & submit their applications showing full address (including e-mail ID) alongwith the non-refundable Tender Fee (excepting PSUs and SSI Units registered with NSIC) in the form of a Demand Draft/Banker's Cheque/ Cashier's Cheque in favour of OIL INDIA LIMITED and payable at JODHPUR to the CHIEF MANAGER (M & C), OIL INDIA LIMITED, 2A, DISTRICT SHOPPING CENTRE ,SARASWATI NAGAR, BASNI, JODHPUR -342005, RAJASTHAN (INDIA) between **26.04.2014 and 03.06.2014** i.e. one week prior to the scheduled bid closing date. On receipt of application and Tender Fee as above, USER-ID and initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL's e-Procurement portal. For bidders who are already having vendor code / user id are advised to log in using user id & password and register against above e-tender and indicate the same while making application along with tender fee for participation. Details of the IFB can be viewed using "Guest Login" provided in the e-procurement portal. **USER-ID and PASSWORD are not transferable.** The link to e-procurement portal has also been provided through OIL's website [www.oil-india.com](http://www.oil-india.com).
- 5.0 OIL reserves the right to refuse issue of Pass Word to such parties even on payment of tender fee, about whose competence OIL is not satisfied. Company's decision in this regard shall be final.
- 6.0 OIL reserves the right to reject any/all bids and cancel the tender without assigning any reason whatsoever.

-: Please visit us at [www.oil-india.com](http://www.oil-india.com):-

(END OF SECTION – I)

Part-1

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.

1.1 It is advisable that the bidder should carry out reconnaissance survey of the area for proper understanding and appreciation of its environmental and logistic issues before bidding.

**A. BIDDING DOCUMENT / TENDER DOCUMENT**

2.0 The services required, bidding procedures and contract terms are prescribed in the Bidding Documents.

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

3.0 **AMENDMENTS TO BIDDING DOCUMENT:**

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 Bid Document through an Addendum.

3.2 The Addendum will be uploaded in OIL's e-Portal in the C-folder under tab "Amendments to Tender Documents". Prospective Bidders (to whom Company issues the USER-ID & PASSWORD), shall be intimated about the amendments through e-mail/fax/courier etc. The Company may, at its discretion, extend the deadline for bid submission, if the Bidders are expected to require additional time in which to take the Addendum into account in preparation of their bid or for any other reason. Bidders shall also check OIL's E-Tender portal [C-folder under the tab "Amendments to Tender Documents"] for any amendments to the bid documents before submission of their bids.

**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 version which shall govern for the purpose of bid interpretation.

5.0 DOCUMENTS COMPRISING THE BID:

**I. TECHNICAL BID**

- (i) Complete technical details of the services and equipment specifications with catalogue, etc. as applicable.
- (ii) Documentary evidence establishing Bidder's eligibility as per BEC/BRC defined in **Part-2, Section-I**.
- (iii) Bid Security (scanned copy) furnished in accordance with Para 10.0 below.
- (iv) Statement of compliance as per **Part-2 of Section-I, Proforma - I**.
- (v) BOQ as per **Part-2 of Section - I, Proforma - II without indicating the rates/prices**.
- (vi) Duly Signed **Integrity Pact** as per **Part-2 of Section - I, Proforma - III**.
- (vii) Proforma as required in Part-4 of the tender document.
- (viii) All other Annexure and Proforma as required in the Tender.

**II. COMMERCIAL (PRICED) BID**

- (i) Bid Form as per **Section-III in PART-3**.
- (ii) Price-Bid as per **Proforma-II, Section-I , in PART-2**.

6.0 BID FORM:

The bidder shall complete the Bid Form (Section-III in PART-3) and the appropriate Price schedule furnished in the Bid Document.

7.0 BID PRICE:

- 7.1 Prices must be quoted by the Bidders online as per format available in OIL's E-Portal.
- 7.2 Prices quoted by the successful bidder must remain firm during its performance of the Contract and is not subject to variation on any account whatsoever.
- 7.3 **Except Service Tax**, the CONSULTANT shall quote the price inclusive of all taxes and duties including but not limited to customs duty, corporate/personal taxes, etc. However, R & D Cess, applicable if any against this contract will be to COMPANY account.
- 7.4 **Service Tax:** The quoted price shall be exclusive of Service Tax. Service Tax as applicable shall be on Company's account. However, liability for payment of the service tax in case of Indian bidder and overseas bidders having offices in India will lie on the Contractor, else in case of foreign bidders, the liability shall lie on the Company.

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 at par with foreign bidders. However, currency once quoted will not be allowed to be changed.

9.0 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS

As detailed in PART-2, Section-I.

10.0 BID SECURITY:

- 10.1 Pursuant to Para 5.0 above, the Bidder during online submission of its bid shall furnish as part of its Technical unpriced Bid, Bid Security (scanned copy) in the amount as specified in the "Forwarding Letter".
- 10.2 The **Original Bid Security** for the amount as specified in the "Forwarding Letter" must reach the office of Chief Manager (M & C), Oil India Limited, 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur -342005, Rajasthan, India before the scheduled Bid Closing Date and Time of the Tender, otherwise Bid will be rejected. Tender Number (CJG3289P15) and the Description of work must be clearly highlighted on the envelope containing the original Bid Security. A scanned copy of this document should also be uploaded alongwith the unpriced Technical Bid in the Technical RFX tab of Oil's e-portal.
- 10.3 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 10.8 below.
- 10.4 The Bid Security shall be denominated in the currency of the Bid or another freely convertible currency, and shall be in the following forms:-
- a) A bank guarantee or irrevocable Letter of Credit issued by a scheduled Indian bank or by a foreign bank through its Indian branch, in the form provided vide Proforma-A, PART-4 or another form acceptable to the Company and valid for 60 days beyond the validity of the Bid. The bank guarantee/Letter of Credit should be so endorsed that it can be invoked at the issuing bank's branch located at Jodhpur (Rajasthan) India or alternatively at New Delhi, India. Bank Guarantees issued by Banks in India should be on non-judicial stamp paper of requisite value, as per Indian Stamp Act, purchased in the name of the Banker.
  - b) A Cashier's /Banker's Cheque or Demand Draft drawn on "OIL INDIA LIMITED" and payable at Jodhpur, Rajasthan (India).
- 10.5 Any Bid not secured in accordance with above-mentioned subparagraphs 10.1 to 10.4 will be rejected by Company as non-responsive, except those are exempted.
- 10.6 Unsuccessful Bidder's Bid Security will be discharged and/or returned immediately after finalisation of the Tender by Company or latest by within 30 days of expiry of the period of bid validity.

10.7 Successful Bidder's Bid Security will be discharged upon the Bidder's signing of the contract and furnishing the Performance Security.

10.8 The Bid Security will 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.
  - iii) To mobilize and/or to commence the assigned jobs within stipulated time frame.

10.9 In case any bidder withdraws their bid during the period of bid validity, Bid security will be forfeited and the party shall be debarred for a period of 2(two) years.

10.10 EXEMPTION FROM SUBMISSION OF BID SECURITY:

Central Govt. offices, Central Public Sector undertakings and firms registered with NSIC/SME (subject to furnishing proper evidence as per guidelines) are exempted from submitting Bid Security.

11.0 PERIOD OF VALIDITY OF BIDS:

11.1 Bids shall remain valid for 120 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 (by Fax or E-mail). A Bidder may refuse the request without forfeiting their Bid Security. A Bidder granting the request will neither be required nor permitted to modify their bid but shall arrange suitable validity extension of their bid security provided under para 10.0 above.

12.0 FORMAT AND SIGNING OF BID:

As the Bids are to be submitted ONLINE with digital signature, manual signature is not required

**C. SUBMISSION OF BIDS:**

13.0 ONLINE SUBMISSION :

13.1 The Bid should be submitted online up to 11:00 Hrs. (IST) (Server Time) on the date as mentioned herein i.e., on the scheduled Bid Closing Date. The Technical Bids will be opened on the same day at 15:00 Hrs. (IST) at the office of Chief Manager (M&C), Oil India Limited, 2A, District Shopping Centre, Saraswati

Nagar, Basni, Jodhpur -342005, Rajasthan, India in presence of authorized representative of the bidder.

- 13.2 The Rates/Prices alongwith price related conditions should be filled online in the Price-Bid screen. All other techno-commercial documents other than the cost details to be submitted with unpriced bid as per tender requirement placed in the “un-priced” bid folder. No rate/price should be entered in Technical Bid, otherwise the offer will be rejected.
- 13.3 The Bid and all uploaded documents must be digitally signed by duly authorized representative of the bidding company using “Class 3” digital certificate [e-commerce application (Certificate with personal verification and Organization name)] as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.
- 13.4 The Bidder will be responsible for ensuring the validity of digital signature and its proper usage by their employee. The authenticity of above digital signature shall be verified through authorized CA after the bid opening. If the digital signature used for signing is not of “Class-3” with Organization name, the bid will be rejected.
- 13.5 The Tender is invited under SINGLE STAGE TWO-BID SYSTEM. Therefore, the Bidder has to submit both the “TECHNICAL” and “COMMERCIAL” bids through electronic form in OIL’s e-Tender Portal within the Bid Closing Date and Time stipulated in the e-Tender. Please ensure that the Techno-Commercial Bid is to be submitted as per Scope of Work & Technical Specifications along with all technical related documents related to the tender in the Technical RFX Response -> User -> Technical Bid only. The “TECHNO-COMMERCIAL UNPRICED BID” shall contain all techno-commercial details except the prices.
- 13.6 **Details of prices as per Price Bid format / Priced bid can be uploaded as Attachment in the attachment link below tendering text in the attachment option under “Notes & Attachments”. A screen shot in this regard is given below. Offer not complying with above submission procedure will be rejected.**

**Please note that no price details should be uploaded in Technical RFX Response, otherwise the offer will be rejected.**

**Display RFX Response:**

Edit | Print Preview | **Technical RFX Response** | Close | Withdraw | Verify

RFX Response Number 60006452    RFX Number TEST2    Status Submitted  
 RFX Owner WIPRO\_TEST1    Total Value 0.00 INR    RFX Response Vers

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

Basic Data | Questions

Event Parameters

Currency: Indian Rupee

Detailed Price Information: Price with Conditions

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

Partners and Delivery Information

Details | Send E-Mail | Call | Clear

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

Go to this Tab “**Technical RFX Response**” for Uploading “Techno-commercial Unpriced Bid”.

Go to this Tab “**Notes and Attachments**” for Uploading “Priced Bid” files.

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

**Edit RFX Response:**

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

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

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

Notes

Add | Clear

Assigned To	Category	Text Preview
The table does not contain any data		

Attachments

Sign Attachment | Add Attachment | Edit Description | Versioning | Delete | Create Qualification Profile

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

Bid on “EDIT” Mode

Area for uploading Techno-Commercial Unpriced Bid\*

Area for uploading Priced Bid\*\*

**Note :**

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

\*\* The “Price bid” must contain the price schedule and the bidder’s commercial terms and conditions. For uploading Price Bid, first click on Sign Attachment, a browser

window will open, select the file from the PC and click on “Sign” to sign the file. On Signing a new file with extension **.SSIG** will be created. Close that window. Next click on Add Attachment, a browser window will open, select the **.SSIG** signed file from the PC and name the file under Description, Assigned to General Data and click on OK to save the File.

**SINGLE STAGE TWO BID SYSTEM** shall be followed for this tender and only the PRICED-BIDS of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

13.7 In Technical Bid Opening, only the **Technical RFX Response** will be opened. **Please do refer the User Manual provided on the portal on the procedure “How to create Response” for submitting offer.**

**NB** : All the Bids must be digitally signed using “Class-3” digital signature certificate with Organizations Name (e-commerce application) as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

13.8 The offer should contain complete specifications, details of services and equipment/accessories offered together with other relevant literature/catalogues of the equipment offered. A scanned copy of Bid Security as mentioned in Clause 10.0 should be submitted with the Techno-commercial unpriced Bid in the “Technical RFX Response” tab.

13.9 All the conditions of the contract to be signed with the successful bidder are given in various Sections of this document. Bidders to state their compliance to each clause of BRC in vide Statement of compliance as per Proforma – I of Section-I, Part-2 and the same should be uploaded with the techno-commercial unpriced bid.

14.0 **The Integrity Pact:**

OIL shall be entering into an Integrity Pact with the Bidders as per format enclosed vide as per Part-2 of Section – I, Proforma - III to the Tender Document. This Integrity Pact proforma has been duly signed digitally by OIL’s competent signatory. The proforma has to be returned by the Bidder (alongwith their Technical Bid) duly signed digitally by the same signatory who signed the bid i.e., who is authorized to sign the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the Bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed acceptance of all terms & conditions mentioned therein and that all pages of the Integrity Pact have been signed by the bidder’s authorized signatory who signs the Bid

14.1 OIL has appointed Shri N. Gopaldaswami, Ex-CEC and Shri R.C. Agarwal, IPS (Retd) as Independent Monitors (IEMs) for a period of three (3) years to oversee implementation of the Integrity Pact in OIL. Bidders may contact the Independent Monitors for any matter related to this Invitation for Bid (IFB) at the following addresses:

1. Shri N. Gopaldaswami, IAS (Retd), Ex-CEC, Phone No. :91-44-2834-

2444(Res), 91-9600144444(Cell);  
E-mail : gopalaswamin@gmail.com

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

15.0 Rates/Prices must be quoted/maintained in the “online price schedule” only. OIL will consider the rates/prices quoted in the “online price schedule” only.

16.0 Timely submission of online bids is the responsibility of the Bidders. The Bid alongwith all annexure and copies of documents should be submitted in e-form only through OIL’s e-bidding engine. The Bid submitted in physical form against e-procurement tenders shall not be given any cognizance. However, the following documents should necessarily be submitted in physical form in sealed envelope. The Tender No. and the Date of Bid Closing/Opening must be prominently marked on the outer cover/envelope containing these documents and should be sent to Chief Manager (M & C), Oil India Limited, 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur -342005 India so as to reach before the scheduled Bid Closing Date and Time of the Tender.

- (i) The Original Bid Security.
- (ii) Power of Attorney for signing the Bid/Offer.
- (iii) Other documents required to be submitted in original as per tender requirement, if any.

17.0 INDIAN AGENTS:

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

17.1 Either the Indian agent on behalf of Principal/OEM or the Principal/OEM itself can bid, but both cannot bid simultaneously in the same tender. Further, if an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender.

18.0 DEADLINE FOR SUBMISSION OF BIDS :

18.1 Bids must be uploaded online not later than 11:00 Hrs. (Indian Standard Time) on the bid closing date mentioned in the "Covering Letter". Bidders are requested to take note of this and arrange to submit their bids well in advance within the deadline to avoid last minute rush/network problems.

18.2 No bid can be submitted/uploaded after the submission deadline is reached. The system time displayed on e-procurement web page shall decide the submission deadline.

19.0 EXTENSION OF BID SUBMISSION DATE/TIME:

19.1 Normally no request for extension of Bid Closing date & Time will be entertained by Company. However, in case of any change in the specifications, non-receipt of any offer, inadequate response or for any other reasons, Company may at its discretion or otherwise, extend the Bid Closing Date and/or Time.

19.2 In the event of receipt of Single Offer within Bid Closing date & Time, OIL reserves the right to extend Bid Closing Date and/or Time as deemed fit. During extension period bidders who have already submitted the bids on or before original Bid Closing date & Time shall not be permitted to revise their bid.

20.0 FORMAT OF BID SUBMISSION:

20.1 Bids to be submitted online at OIL's E-PORTAL. Detailed instructions are available in "USER MANUALS" in the E-PORTAL.

21.0 LATE BIDS:

Bidders are advised in their own interest to ensure that the bids are uploaded in the system well before the closing date and time of the bid. Company will not be responsible for any failure to upload the Bids due to last minute rush.

22.0 MODIFICATION AND WITHDRAWAL OF BIDS :

22.1 The Bidder after submission of bid may modify or withdraw its bid by written notice prior to the bid closing.

22.2 The Bidder's modification or withdrawal notice must be submitted in writing (either by fax/courier/registered post) so as to reach the office of Chief Manager (M & C), Oil India Limited, 2A, District Shopping Centre, Saraswati Nagar, Basni, Jodhpur -342005, Rajasthan, India before the deadline for submission of bids. Bidders may send these request letters to return their bids which they submitted earlier for modifications, if envisaged any prior to bid opening. The request should reach the office of Chief Manager (M & C), at least three (3) working days prior to the scheduled bid closing date. Once the earlier bid is returned by Company on request, Bidder can again upload their correct/revised bids within the stipulated bid closing date and time. Maintaining sufficient time gap to withdraw the earlier bids for modifications and to resubmit the bids after necessary corrections/ modifications within the scheduled bid closing date and time is the sole risk and responsibility of Bidder. Company shall not be responsible for any delayed delivery/late receipt of such requests/notices for whatsoever reasons.

22.3 No bid can be modified subsequent to the deadline for submission of bids. Post tender modification(s) of bid by any bidder within the period of its bid validity will lead to rejection of such offer and forfeiture of bidder's Bid security in full. Such modification (s) may also call for debarment of the bidder as mentioned above.

22.4 No bidder shall be permitted to withdraw their bid after its opening till expiry of bid validity including extended validity, if any. Such withdrawal will make the bidder liable to forfeit their Bid Security in full and be debarred them from participating against OIL's future tenders at the sole discretion of the

Company and the period of debarment in no case shall be less than two (2) years.

### 23.0 BID OPENING AND EVALUATION

- 23.1 Company will open the Bids, including submission(s) made pursuant to para 22.0, in the presence of Bidder's representatives who choose to attend at the date, time and place mentioned in the Forwarding Letter. However, the Bidder's representative must produce an authorized letter from the bidder at the time of opening of tenders. Unless this Letter is presented, the representative will not be allowed to attend the opening of tenders. The Bidders' representatives who are allowed to attend the bid opening shall sign in a register evidencing their attendance. Only one representative against each bid will be allowed to attend.
- 23.2 Bid (if any) for which an acceptable notice of withdrawal has been received pursuant to para 22.2 shall not be opened. On opening the remaining bids Company will examine them to determine whether the same are complete, requisite Bid Securities have been furnished, documents have been properly signed and the bids are generally in order.
- 23.3 At bid opening, Company will announce the Bidders' names, written notifications of bid modifications or withdrawal, if any, furnishing of requisite Bid Security, rates/costs quoted and such other details as the Company may consider appropriate.
- 23.4 Company shall prepare, for its own records, minutes of bid opening including the information disclosed to those present in accordance with above sub-clauses.
- 23.5 To facilitate 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.
- 23.6 Prior to detailed evaluation, the Company will determine the substantial responsiveness of each bid to the Bidding Document. For this purpose, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bidding Document without material deviations or reservation. A materials deviation or reservation is one which effects in any substantial way the scope, quality or performance of work, or which limits in any substantial way, in consistent way with the bidding document, 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 evidences.
- 23.7 A Bid determined as not substantially responsive will be rejected by the Company and can not subsequently be made responsive by the Bidder through correction of the non-conformity.

23.8 The Company may waive minor informality or nonconformity or irregularity on a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

24.0 OPENING OF COMMERCIAL (PRICE) BIDS

24.1 Company will open the Price Bids (Commercial Bids) of the technically qualified Bidders only, on a specified date in presence of interested qualified bidders, if they attend. All such qualified Bidders will be intimated about the commercial bid opening date & time in advance.

24.2 The Company will examine the Price/rates quoted by the 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.

24.3 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 bids will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

25.0 CONVERSION TO SINGLE CURRENCY:

While evaluating the bids, the closing rate of exchange (BC Selling market rate) declared by the State Bank of India on the day prior to price bid opening will be taken into account for conversion of foreign currencies into Indian Rupees for the purpose of comparison to ascertain inter-se- ranking of all qualified bidders. 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.

26.0 EVALUATION AND COMPARISON OF BIDS :

The Company will evaluate and compare the bids as per Part-2, Section-I of the bidding document.

27.0 LOADING OF FOREIGN EXCHANGE:

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

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

27.2 Repatriation of Rupee Cost: In respect of foreign parties, rupee payments made on the basis of the accepted rupee component of their bids, would not be repatriable by them. A condition to this effect would be incorporated by the Company in the contract.

28.0 CONTACTING THE COMPANY :

28.1 Except as otherwise provided in para 22.2 & 23.5 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.

28.2 An effort by a Bidder to influence the Company officials in bid evaluation, bid comparison or Contract award decisions, may result in rejection of their bid.

**D. AWARD OF CONTRACT**

29.0 AWARD CRITERIA:

The Company will award the Contract to the Contractor 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.

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

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

30.0 NOTIFICATION OF AWARD:

30.1 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 fax or e-mail (to be confirmed in writing by registered / courier letter) that his bid has been accepted.

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

30.3 Upon the successful Bidder's furnishing of Performance Security pursuant to Clause 31.0 herein below, the Company will promptly discharge the Bid Securities of all un-successful Bidders, pursuant to Clause 10.0 hereinabove.

31.0 PERFORMANCE SECURITY :

31.1 Within 15 (fifteen) days of receipt of notification of award from the Company, the successful Bidder shall furnish to Company the Performance Security for an amount (7.5% of evaluated 1 (one) year contract cost) specified in the Covering Letter and in the Letter of Award (LOA) issued by Company as per Proforma-B (ref. Part-4) or in any other format acceptable to the Company and must be in the form of Bank Guarantee (BG) or an irrevocable Letter of Credit (L/C) from any of the following Banks:

i) Any Nationalised / Scheduled Bank in India OR

ii) Any Indian branch of a Foreign Bank OR

iii) Any reputed foreign Bank having correspondent Bank in India

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

- 31.2 The performance security specified above must be valid for six (06) months beyond the expiry date of the contract to allow Company to lodge claim, if any. The same will be discharged by Company not later than 30 days following its expiry. In the event of extension of contract, subsequent to expiry of validity of the original contract period, Contractor shall have to enhance the value of the performance security to cover 7.5% of contract value for the extended period and also to extend the validity of the performance security accordingly.
- 31.3 Failure of the successful bidder to comply with the requirements of para 31.1 or 31.2 above shall constitute sufficient grounds for annulment of the award and forfeiture of the Bid Security.

#### INVOCATION OF PERFORMANCE BANK GUARANTEE

- 31.4 In the event of Contractor failing to honour any of the commitments entered into under the contract and/or in respect of any amount due from Contractor to Company, Company shall have an unconditional option under the guarantee to invoke the Performance Bank Guarantee and claim the amount from Bank.
- 31.5 Company will have the right to invoke the Performance Bank Guarantee in case the Contractor fails to mobilise the Equipment, tools and personnel etc. within the stipulated period irrespective of any reasons whatsoever.

#### 32.0 SIGNING OF CONTRACT:

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

#### **33.0 SITE VISIT:**

The Bidders, at their own cost, responsibility and risk are encouraged to

visit and examine the site of work and its surroundings to understand the logistics and obtain all information that may be necessary for preparing the Bid and entering into a Contract for the required services/work.

The Contractor shall be deemed prior to submitting their Bid to have:

- a) Inspected and examined the Site and its surroundings and carried out such surveys as it considers necessary;
- b) Satisfied itself as to the nature of the work and materials necessary for the execution of the Works;
- c) Satisfied itself as to the circumstances at the Site, including, without limitation, the ground and sub-soil, the form and nature of the Site and the climate and hydrological conditions of the Site;
- d) Satisfied itself as to the means of communication with and access to & through the Site, the accommodation it may require and the precautions and the times and methods of working;
- e) Obtained for itself all necessary information as to the risks, contingencies and all other circumstances, which may influence or affect the Contract price and its obligations under the Contract;
- f) Satisfied itself with all the Indian as well as local conditions, factors and legislation which may have any effect on the execution of the work covered under the Bid Document;
- g) Ascertained the general labour position at the Site and have understood the cost associated with engagement of the labours.

34.0 **FURNISHING FRAUDULENT INFORMATION/DOCUMENTS:**

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

35.0 **CREDIT FACILITY:**

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

36.0 **MOBILIZATION ADVANCE PAYMENT:**

- 36.1 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. However, any mobilization advance shall be given in two phases – 50% of mobilization charges before shipment of materials, equipment & tools etc. and rest 50% after the shipment is completed.

- 36.2 Advance payment agreed to by the Company shall be paid only against submission of an acceptable bank guarantee whose value should be equivalent to the amount of advance plus the amount of interest covering the period of advance. Bank guarantee shall be valid for 2 months beyond completion of mobilisation and the same may be invoked in the event of Contractor's failure to mobilise as per agreement.
- 36.3 In the event of any extension to the mobilisation period, Contractor shall have to enhance the value of the bank guarantee to cover the interest for the extended period and also to extend the validity of bank guarantee accordingly.

37.0 **LOCAL CONDITIONS:**

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

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

(END OF SECTION – II)

(End of Part – 1)

Part-2

SECTION-I

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

**A) BID REJECTION CRITERIA (BRC):**

The Bid shall conform generally to the specifications and terms and conditions including the scope of work/supply given in the bidding document. Bids will be rejected in case services offered do not conform to the required parameters stipulated in the technical specifications/scope of work/terms of reference. Notwithstanding the general conformity of the bid to the stipulated specifications/terms, 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 TECHNICAL**

- 1.1 The bidder should have experience and expertise in execution of heavy oil project, involving G&G study, Well engineering design, detailed engineering including casing policy and prestressing, mud engineering and formulation, deviation drilling, cold completion, thermal well completion for recovery through Thermal EOR process, where multidisciplinary jobs are involved.
- 1.2 The bidder must have successfully carried out at least one such integrated consultancy services of similar kind of multidisciplinary nature anywhere in the world in the last 5 years ending last day of month previous to the one in which applications are invited. Documentary evidence confirming their experience as above must be submitted along with the technical bid, failing which the offer will be rejected.

Bidder having experience of successfully completed similar integrated consultancy services related to Exploitation of Heavy Oil applying Thermal or other relevant EOR methods (referred to as similar projects hence forth) in the last 5 years ending last day of month previous to the one in which applications are invited should be either of the following:

- i. Three similar completed works each costing not less than the amount equal to Rs 11 crore or US\$ 18,56,853.00.
- or**
- ii. Two similar completed works each costing not less than the amount equal to Rs 13.75 crore or US\$ 23,21,067.00.
- or**
- iii. One similar completed work costing not less than the amounts equal to Rs 22 crore or US\$ 37,13,707.00.

**Note:** Documents establishing successful execution as above must be submitted along with the techno-commercial bid. These documents should be in the form of duly attested copies of contracts/work orders/completion certificates/payment certificates etc. issued by clients, failing which the offer will be rejected.

- 1.3 Average Annual financial turnover as per Audited Annual Reports for the last three accounting years, should be at least Rs 8.25 crore or US\$ 13,92,640.00.

Note: For proof of Annual turnover, any one of the following document/photocopy must be submitted along with the bid: -

- i) A certificate issued by a practicing Chartered/ Cost Accountants Firm, with membership no. certifying the Annual Turnover and nature of business.
  - ii) Audited Balance Sheet and Profit and Loss account.
- 1.4 Bidder should be able to provide services of adequately qualified and trained/experienced key manpower for consultancy service as furnished under Para 15.2 of Part-3; SECTION – IV. Technical bid should include bio-data of the personnel proposed to be deployed which shall comply with the requirements, failing which the offer will not be accepted.
- 1.5 Bids which do not include all the jobs/services mentioned in the tender document will be considered as incomplete and rejected.
- 1.6 **Bids from Indian Company / India Joint Venture Company with Technical Collaboration/Joint Venture Partner:**

a) In case, the bidder is an Indian Company / Indian Joint Venture Company, who meets the experience criteria as per clause No. 1.1 and 1.3 but do not meet criterion as per clause No. 1.2 above (Part-2, Section-I), may also bid on the strength of Technical Collaborator / Joint Venture Partner who meets the criteria laid down at clause No. 1.2.

b) Indian bidders quoting based on technical collaboration/ joint venture, shall submit a Memorandum of Understanding (MOU) / Agreement with their technical collaborator/ joint venture partner clearly indicating their roles under the scope of work which shall be addressed to OIL and shall remain valid and binding for the contract period under this tender.

**1.7 Bid from Consortium of companies:**

In case, the bidder is a consortium of companies, the following requirement should be satisfied by the bidder:

a) The Leader of the consortium (Principal Bidder) should satisfy the minimum experience requirement as per clause No. 1.1 and/or 1.2 above (Part-2, Section-I).

b) If the Leader of the consortium (Principal Bidder) does not meet the requirement as per clause No. either 1.1 or 1.2 above (Part-2, Section-I), then the shortfall shall be individually met by any of the consortium members. In case, the leader satisfies only Clause No. 1.1 above (Part-2, Section-I), then any of the consortium members individually shall meet clause No. 1.2 mentioned. Or incase, the leader satisfies only Clause No. 1.2 above (Part-2, Section-I), then any of the consortium members individually shall meet clause No. 1.1 above (Part-2, Section-I).

c) The LEADER or any of the other consortium members individually shall have to meet the financial criterion mentioned in Clause No. 1.3 above.

d) Consortium bids shall be submitted with a Memorandum of Understanding between the consortium members duly signed by the authorized Executives of the consortium members clearly defining the role/scope of work of each partner/member, binding the members jointly and severally to the responsibility for discharging all obligations under the contract and identifying the Leader of Consortium. Unconditional acceptance of full responsibility for executing the 'Scope of Work' of this bid document by the Leader of the Consortium shall be submitted along with the Techno-commercial bid.

e) Only the Leader of the consortium shall buy the bid document, submit bid and sign the contract agreement (in the event of award of contract) on behalf of the consortium.

f) The Bid Security shall be in the name of the Leader of the consortium on behalf of consortium with specific reference to consortium bid and name & address of consortium members. Similarly the Performance Security shall be submitted by the Leader on behalf of the consortium.

1.8 Bidder(s) quoting in Collaboration / joint venture Partnership/ Consortium with any firm are not allowed to quote separately/independently against this tender. The collaborator is also not allowed to quote separately/independently against this tender. All the bids received in such case will be summarily rejected.

#### **1.9 MOBILISATION TIME:**

Offers indicating mobilization time of more than 25 days from the date of issuance of LOA will be summarily rejected.

#### **1.10 DOCUMENTS:**

Bidders must furnish documentary evidences, in support of fulfilling all the above requirement as under along with the Techno-Commercial Bid:

a) Copies of relevant pages of Contracts & Completion Certificate issued by the clients in support to establish successful execution as per 1.1 & 1.2 must be submitted along with the techno-commercial bid. These documents should be in the form of duly attested copies of contracts/work orders/completion certificates/payment certificates etc. issued by clients.

b) Audited balance sheets and profit and loss accounts for last 3(three) years in equivalent INR or US\$ as mentioned in Clause Nos. 1.3 above.

c) MOU or legally acceptable documents (wherever applicable) in support of consortium arrangement (Documents for in Clause Nos. 1.6b, 1.7a, 1.7b).

d) All documents submitted with bid must be self certified by the bidder's authorized person signing the bid. However, OIL reserves the right to ask for any Original document for verification.

e) Bidder while submitting the documents in support of their experience vide Clause Nos. 1.1 & 1.2 above shall also submit details of experience and past performance of the collaborator (in case of collaborator) or of joint venture partner (in case of a joint venture), or Leader of the consortium (in case of Consortium bid) on works/jobs done of similar nature in the past along with the Techno-

Commercial Bid. Also, details of current work in hand and other contractual commitments of the bidder (indicating areas and clients) are to be submitted along with documentary experience in the Techno-Commercial Bid in support of the experience laid down in Clause Nos. 1.1 & 1.2 above.

**NOTES:**

Required Certificates/Confirmation document as indicated above should be submitted along with the un-priced Techno-Commercial bid; absence of which will render the offers Non responsive.

- 1.11** OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide PROFORMA-III of the tender document. Each page of this Integrity Pact Proforma has been duly signed by OIL's competent signatory. The Proforma has to be returned by the bidder duly signed (along with Technical Bid) by the same signatory who signed the bid i.e. who is duly authorized to sign the bid. Any bid, not accompanied by Integrity Pact Proforma duly signed by the bidder shall be rejected straightway. All the pages of the Integrity Pact to be signed by bidders's authorized signatory who sign the bid.

**2.0 COMMERCIAL**

- 2.1** Bids are invited from reputed capable Bidders under Single Stage Two Bid System i.e. Technical Bid (Un-priced) and Commercial Bid (Priced) separately. Bidders must submit both "Technical" and "Commercial" Bids in electronic form through online OIL's e-Tender portal accordingly within the Bid Closing Date and time stipulated in the e-Tender. The technical Bid is to be submitted as per Scope of Work & Technical Specifications of the tender in **Technical RFX Response Tab** and the Price Bid as per the **Online Price Bid Format**. Any offer not complying with the above will be rejected straightaway.
- 2.2** In Technical Bid opening, only the **Technical RFX Response Tab** will be opened. Therefore, the bidder should ensure that Technical Bid is uploaded in the **Technical RFX Response -> User > Technical Bid Tab** Page only. No price should be given along with the Technical Bid; otherwise the offer will be rejected. Please go through the help document provided in OIL's e-Portal, in details before uploading the documents.
- 2.3** Prices/Rates should be maintained in the online price schedule. Bidders should specify the currency in their offer which can either be Indian Rupees or any foreign currency freely convertible.
- 2.4** Price Bid Format in the form of MS-Excel sheet has also been uploaded in e-Tender. In case of disagreement in the quoted rate between "On line" and "MS-Excel sheet", rate quoted in the "online price schedule" shall prevail.
- 2.5** Prices and rates quoted by Bidders must be held firm during the term of the contract and not be subject to any variation. Bids with adjustable price terms will be rejected.
- 2.6** Bid Security in original must reach the office of Chief Manager (M & C), Oil India Limited, Rajasthan Project, 02 A Sarawati Nagar, District Shopping Centre, Basni, Jodhpur – 342 005, Rajasthan, India, before the bid opening date and

time, otherwise, bid will be rejected. The amount of Bid Security shall be as specified in the "Forwarding Letter". Scanned copy of this Bid Security should also be submitted /uploaded online along with the un-priced (Technical) Bid. Public Sector Undertakings and Firms registered with NSIC/Directorate of Industries in India are exempted from submission of bid security against this tender. Bid Security must be valid for minimum 180 days from Scheduled Bid Closing Date. Bids with Bid Security not having above minimum validity will be rejected".

- 2.7 Bids received in physical form, but not uploaded in OIL's e-Tender Portal will be rejected.
- 2.8 Bidders must quote rates in accordance with the price schedule outlined in PRICE BID FORMAT (PROFORMA-II), otherwise the Bid will be rejected. The Bids in which the rates for any part of the work are not quoted shall be rejected. However, if no charge is involved for any of the work/item, 'NIL' should be mentioned against such part of work.
- 2.9 Bids received by Company after the bid closing date and time will be rejected
- 2.10 User ID & Password are not transferable. Offers made by bidders who have not been issued/permitted to download the bid document by the Company will be rejected.
- 2.11 Any bid received in the form of Telex/Cable/Fax/E-Mail will be rejected.
- 2.12 Bids must be kept valid for a minimum period of 120 days from the date of scheduled bid closing. Bids with inadequate validity will be rejected.
- 2.13 The Bids and all uploaded documents must be digitally signed using "Class 3" digital certificate [e-commerce application (Certificate with personal verification and Organization name)] as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.
- 2.14 There must be no exception to the following Clauses including sub-clauses, otherwise the Bid will be rejected:
  - Performance Guarantee Bond Clause
  - Tax liabilities Clause
  - Insurance Clause
  - Force Majeure Clause
  - Termination Clause
  - Arbitration Clause
  - Liability Clause
  - Applicable Law Clause

### **3.0 GENERAL:**

- 3.1 The compliance statement (enclosed PROFORMA – I) should be digitally signed and uploaded along with the technical bid (un-priced). In case bidder 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 the Company. The loading so done by the Company will be final and binding on the bidders.

- 3.2 To ascertain the substantial responsiveness of the bids, 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 be summarily rejected.
- 3.3 If any of the clauses in the BRC contradicts with other clauses of bidding document elsewhere, then the clauses in the BRC shall prevail.
- 3.4 Any exception or deviation to the tender requirements must be tabulated in PROFORMA-I of this Section by the Bidder in their Technical Bid only. Any additional information, terms or conditions included in the Commercial (Priced) Bid will not be considered by OIL for evaluation of the Tender.
- 3.5 The Company reserves the right to cancel/withdraw the tender or annul the bidding process at any time prior to award of contract, without thereby incurring any liability to the bidders or any obligation to inform the bidders of the grounds of Company's action.

**B) BID EVALUATION CRITERIA (BEC):**

- 1.0 The bids conforming to the technical specifications, terms and conditions stipulated in the bidding document and considered to be responsive after subjecting to Bid Rejection Criteria will only be considered for further evaluation as per the Bid Evaluation Criteria given below.
  - 1.1 The bids shall be technically evaluated based on the requirements provided in Tender document.
  - 1.2 In the event of computational error between unit price and total price, unit price shall prevail.
  - 1.3 Evaluation of Bids will be as per enclosed Proforma – II for arriving at the total estimated cost of the contract. The headings(s) mentioned in Proforma-II are summarized one for which the details are provided in Part-3, Section-IV of the tender document.

NOTE: If any of the clauses in the BEC contradict with other clauses of bidding document elsewhere, then the clauses in the BEC shall prevail.

**STATEMENT OF COMPLIANCE**  
**(Only exceptions/deviations to be rendered)**

<b>SECTION NO. (PAGE NO.)</b>	<b>CLAUSE NO. SUB-CLAUSE NO.</b>	<b>COMPLIANCE/ NON COMPLIANCE</b>	<b>REMARKS</b>

**(Authorised Signatory)**  
**Name of the bidder \_\_\_\_\_**

NOTE : OIL INDIA LIMITED expects the bidders to fully accept the terms and conditions of the bid document. However, should the bidders still envisage some exceptions/ deviations to the terms and conditions of the bid document, the same should be highlighted as per format provided above and to be submitted as part of their Technical Bid. If the proforma is left blank, then it would be presumed that the bidder has not taken any exception/deviation to the terms and conditions of the bid document.

**PROFORMA-II**

**PRICE SCHEDULE FORMAT FOR COMMERCIAL EVALUATION**

Sl.No.	Details of Job (MILESTONES)	Unit	Qty.	Rate	Total Amount
1	PHASE-I Data collection, visit to OIL's Office at Rajasthan.	Lump- sum	One		
2	Review/Study of the Data (Details of the available data are given in Annexure-Ia, Ib, Ic). Data Loading, Geological & Geophysical interpretation [Integrated 3D seismic data interpretation incorporating geological, well data, Mapping of Five(5) Horizons, incorporation of available results of Attribute analysis, 3D Seismic Pre-stack Inversion of earlier studies etc. <b>[As per Work Programme]</b> .  Sedimentological, Mineralogical & Petrophysical analysis <b>(As per Work Programme)</b> .	Lump- sum	One		
3	Development of Static Geological Model, Reservoir Facies, Estimation of in-place hydrocarbon volumes as per Work Programme  (a) Perform Simulations of recovery processes for Jodhpur reservoir of Baghewala and other Wells in the Area. (b) Preparation of Well plan and Montage Diagrams for the recommended wells. (c) Techno-economics of the identified prospects. (d) Selection of appropriate Production Technology and Well Engineering Design.. Submission of draft Report & presentation at Jodhpur. <b>(As per Work Programme)</b>	Lump- sum	One		
4	(a) Preparation of Basis of Design Document of Drilling. (b) Preparation of Basis of Design	Lump- sum	One		

	Document of Well Completion. (c) Preparation of Project Execution Plan.				
5	Identification of the services and materials including the detailed technical specifications etc., required for completion of all the four wells.	Lump- sum	One		
6	Submission of final report and presentation on the entire project incorporating COMPANY's views /comments at Jodhpur/Noida.	Lump- sum	One		
01	<b>PHASE-II</b> a) Prepare Functional Specification and Tender documents in consultation with COMPANY for procurement of materials and hiring of services as determined in Phase-I. b) Presence of competent personnel during pre-tender meetings for various materials / services.	Lump- sum	One		
02	c) Technical and Commercial Evaluation of the Bids received. d) Submission of report that includes procurement/hiring of services details. e) Preparation of Procurement Management Review Report.	Lump- sum	One		
03	f) Preparation of Standard Operating Procedure of all operations. g) Preparation of Bridging Documents between various Service Provider and the Consultants. h) Preparation of Time vs. Activity chart for the execution phase of the project taking into account the Bridging Document formulated with various Service Providers.	Lump- sum	One		
01	<b>PHASE-III</b> Deployment of experts for Execution Phase under Key Personnel (call out basis): i) One Drilling Services Expert ii) One Mud Engineering Expert iii) Well Completion Expert iv) Expert for Production Services	Manday Manday Manday Manday	200 160 80 160		
02	Preparation and submission of Drilling and Completion reports along with other associated	Lump- sum	Four		

	reports in consultation with COMPANY representatives, after completion of each well.				
03	Performance Evaluation of each well and review/modification of subsequent wells designs, if required.	Lump- sum	Four		
04	Submission of comprehensive report at the end of the project that includes financial analysis and performance evaluation of the entire project with detailed break-up.	Lump- sum	One		

\*Manday means per manday of 24 hours.

**TOTAL CALCULATED CONTRACT VALUE: SUM OF TOTAL OF ALL ABOVE –**

NOTE: 1. CONSULTANT shall note that no other charges apart from above shall be paid by COMPANY for providing the services mentioned under 12.0 BROAD SCOPE OF WORK of Part-3,Section-IV. Therefore, charges apart from above, if any, CONSULTANT shall load in the above rates.

2. **Except Service Tax** ,the CONSULTANT shall quote the price inclusive of all taxes and duties including but not limited to customs duty, corporate/personal taxes, Service tax etc. However, R & D Cess, applicable if any against this contract will be to COMPANY account.

3. **Service Tax:** The quoted price shall be exclusive of Service Tax. Service Tax as applicable shall be on Company's account. However, liability for payment of the service tax in case of Indian bidder and overseas bidders having offices in India will lie on the Contractor, else in case of foreign bidders, the liability shall lie on the Company.

**OTHER TERMS & REQUIREMENTS:**

1.0 In the event of finalization of the contract, whenever any foreign national is engaged for the job, the Visa as well as other statutory permits required for visit of such personnel to site shall be arranged by the bidder at their cost and effort. Necessary invitation letter/certification will be issued by OIL on request.

(NOTE: The work site, i.e., Baghewala oil field is located close to international border in the western part of India. As such, for visit by foreign national, a special permit from Ministry of Home Affairs will be required to be obtained by expatriates visiting the locations. Necessary assistance to this effect will be extended by OIL).

2.0 For all jobs and studies, the contractor can deploy only such persons for whom bio-data were submitted along with the technical bid. Replacements, if necessary, will require prior approval from OIL.

2.0 Bidder should submit a Time v/s Activity Chart phase wise including Milestone along with the Technical bid. This should cover the entire project duration.

3.0 The day rates and Lump sum rates to be quoted against each personnel and each part by the bidder should include personnel's all expenses including travelling expenses, mobilization and de-mobilization charges etc.

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**INTEGRITY PACT**

Between

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

And

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

**Preamble:**

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

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

**Section: 1 -Commitments of the Principal**

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

1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.

2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.

3. The Principal will exclude from the process all known prejudiced persons.

**(2)** If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a **Page 2 of 5** substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

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

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

1. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which h e/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2. The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

3. The Bidder/Contractor will not commit any offence under the relevant Anticorruption Laws of India; further the Bidder/Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

4. The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

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

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

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.

2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.

3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.

4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

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

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

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

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

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

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

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

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

**Section: 8 -External Independent Monitor/Monitors**

(three in number depending on the size of the contract)

(to be decided by the Chairperson of the Principal)

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.

3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality.

4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.

7. If the Monitor has reported to the Chairperson of the Board a Substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8. The word 'Monitor' would include both singular and plural.

**Section:9 -Pact Duration**

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

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

**Section:10 -Other provisions**

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. Noida.
2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.
4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

.....  
**For the Principal**

.....  
**For the Bidder/Contractor**

Witness 1: .....

Witness 2: .....

Place. JODHPUR.  
Date .....

-----  
**NAME OF INDEPENDENT EXTERNAL MONITORS:**

- (a) Shri N. Gopaldaswami, IAS (Retd.).  
Phone: +91-44-2834-2444 (Res), 96001 44444 (Mobile).  
E-mail: gopaldaswamin@gmail.com
- (b) Shri Ramesh Chandra Agarwal, IPS.  
Phone: +91-9810787089, 91-1122752749.  
E-mail: rcagarwal@rediffmail.com

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END OF SECTION-I  
(End of Part – 2)

Part- 3

SECTION – I

**GENERAL CONDITIONS OF CONTRACT**

1.0 DEFINITIONS:

1.1 In the contract, the following terms shall be interpreted as respectively assigned below:

- (a) "Approval" as it relates to Company, means written approval;
- (b) "Company" or "OIL" means Oil India Limited;
- (c) "Company's items" means the equipment, materials and services, which are to be provided by Company at the expense of Company and listed in the Contract;
- (d) "Company's Personnel" means the personnel to be provided by Oil India Limited (OIL) or OIL's contractor (other than the Contractor executing this Contract). The Company representatives of OIL and Consultant deployed by OIL for supervision of operations are also included in the Company's personnel;
- (e) "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;
- (f) "Contractor" means the individual or firm or Body incorporated performing the work under this Contract;
- (g) "Contractor's items" means the equipment, materials and services, which are to be provided by Contractor or to be provided by Company at the expense of the Contractor, which are listed in Tender Document under Terms of Reference and Technical Specifications;
- (h) "Contractor's Personnel" means the personnel to be engaged by the Contractor from time to time to provide services as per the contract;
- (i) "Day" means a calendar day of twenty-four (24) consecutive hours beginning at 06:00 hrs. and ending at 06:00 hrs.;
- (j) "Party" means either the Company or Contractor as the context so permits and, as expressed in the plural, shall mean the Company and Contractor collectively;
- (k) "Site" means the land and other places, on/under/ in or through which the works are to be executed by the Contractor and any other land and places provided by the Company for working space or any other purpose as designated hereinafter as forming part of the Site;
- (l) "Work" means each and every activity required for the successful performance of the services described in Tender Document under, the Terms of Reference.
- (m) "Company Representative" means the person or persons appointed and approved from time to time by the Company to act on its behalf for overall co-ordination and project management purpose.

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

2.1 EFFECTIVE DATE: 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 MOBILISATION TIME: The mobilization should be completed by Contractor within 25 days from the effective date of the contract. Mobilization shall be deemed to be completed when Consultant's personnel arrive at Jodhpur for Technical Data Collection for phase I and detail discussion to define project objectives and pre Job planning; as envisaged under the Contract duly certified by the Company's authorized representative.

2.3 DATE OF COMMENCEMENT OF CONTRACT: The date on which the mobilization is completed in all respects is treated as date of commencement of Contract.

2.4 DURATION OF CONTRACT: The Contract shall be valid for a period of Forty (40) months from the date of its commencement.

Further extension of the contract, if any will be on the rates, terms and condition to be mutually agreed by the parties.

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 (PART-3,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 Contract, engage all manpower 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 within the warranty period as Company may consider necessary for the proper fulfilling of Contractor's obligations under the contract.

4.0 GENERAL OBLIGATIONS OF THE COMPANY:

Company, in accordance with and subject to the terms and conditions of this contract, shall:

4.1 Pay Contractor in accordance with terms and conditions of the contract. The

Contractor shall be entitled to the applicable rate as defined in Proforma-II, Section-I of Part-2 (i.e. Schedule of Service/ Rates) hereunder. The rates contained in the Contract shall be based on the intended operations being conducted by the Contractor on seven (7) days a week and twenty-four (24) hours a working day. The day rates are payable when the required condition has existed for a full 24 hours period. If the required condition existed for less than 24 hours then payments shall be made on pro-rata basis. The period of time for which each day rate is payable shall be computed and rounded off upto the nearest quarter of an hour.

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 statutory safety norms/requirements as well as Company's safety policies & guidelines. 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 field/drilling site, en-route/ 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 tenure of the Contract or within 3 (three) months after completion of the operations that the Work does not conform to the foregoing warranty, Contractor shall after receipt of notice from Company, promptly perform any and all corrective work required to make the services conform to the Warranty. Such corrective work shall be performed entirely at Contractor's own expenses. If such corrective work is not performed within a reasonable time, the Company, at its option may have such remedial work performed by others and charge the cost thereof to Contractor which the Contractor must pay promptly. In case Contractor fails to perform

remedial work, or pay promptly in respect thereof, the performance security shall be forfeited.

7.0 CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:

7.1 Contractor shall not, without Company's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of Company in connection therewith, to any person other than a person employed by Contractor in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance.

7.2 Contractor shall not, without Company's prior written consent, make use of any document or information except for purposes of performing the contract.

7.3 Any document supplied to the Contractor in relation to the contract other than the Contract itself remain the property of Company and shall be returned (in all copies) to Company on completion of Contractor's performance under the Contract if so required by Company.

7.4 However, the above obligation shall not extend to information

which

- i) is, at the time of disclosure, known to the public; or
- ii) lawfully becomes at a later date known to the public through no fault of Contractor; or
- iii) is lawfully possessed by Contractor before receipt thereof from Company; or
- iv) is disclosed to Contractor in good faith by a third party who has an independent right to such information; or
- v) is developed by Contractor independently of the information disclosed by Company; or
- vi) Contractor is required to produce before competent authorities or by court order.

8.0 TAXES:

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

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

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

the appropriate authority.

- 8.4 Prior to start of operations under the contract, the Contractor shall furnish to the Company with all necessary documents as asked for and/or any other information pertaining to the contract, which may be required to be submitted to the Income Tax authorities at the time of obtaining "No Objection Certificate" for releasing payments to the Contractor.
- 8.5 Tax clearance certificate for personnel and corporate taxes shall be obtained by the Contractor from the appropriate Indian Tax authorities and furnished to Company within 6 months of the expiry of the tenure of the contract or such extended time as the Company may allow in this regard.
- 8.6 Corporate income tax will be deducted at source from the invoice at the specified rate of income tax as per the provisions of Indian Income Tax Act as may be in force from time to time.
- 8.7 Corporate and personal taxes on Contractor shall be the liability of the Contractor and the Company shall not assume any responsibility on this account.
- 8.8 All local taxes, levies and duties, sales tax, VAT, octroi, etc. on purchases and sales made by Contractor shall be borne by the Contractor.
- 8.9 Except Service Tax, the CONSULTANT shall quote the price inclusive of all taxes and duties including but not limited to customs duty, corporate/personal taxes, Service tax etc. However, R & D Cess, applicable if any against this contract will be to COMPANY account.
- 8.9.1 **Service Tax:** The quoted price shall be exclusive of Service Tax. Service Tax as applicable shall be on Company's account. However, liability for payment of the service tax in case of Indian bidder and overseas bidders having offices in India will lie on the Contractor, else in case of foreign bidders, the liability shall lie on the Company.
- 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 there from shall be to the sole account of Contractor.
- 9.7 Contractor shall require all of their sub-contractor to provide such of the foregoing insurance coverage as Contractor is obliged to provide under this Contract and inform the Company about the coverage prior to the commencement of agreements with its sub-contractors.
- 9.8 All insurance taken out by Contractor or their sub-contractor shall be endorsed to provide that the underwriters waive their rights of recourse on the Company and its Affiliates, the Co-venturers and their Affiliates.
- 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 (Proforma-II, Section- I, PART-2). 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 13.0 hereunder. Contractor's performance of the work as changed will not prejudice Contractor's request for additional compensation for work performed under the Change Order.

#### 11.0 FORCE MAJEURE:

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

11.2 Upon occurrence of such cause and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing within Seventy Two (72) hours of the alleged beginning and ending thereof, giving full particulars and satisfactory evidence in support of its claim.

11.3 Should "force majeure" condition as stated above occurs and should the same be notified within seventy two (72) hours after its occurrence the "force majeure day rate" shall apply for the first 15 (fifteen) days. Either party will have the right to terminate the Contract if such "force majeure" conditions continue beyond 15 (fifteen) consecutive days with prior written notice. Should either party decide not to terminate the Contract even under such condition, no payment would apply after expiry of 15 (fifteen) days force majeure period unless otherwise agreed to.

#### 12.0 TERMINATION:

12.1 **TERMINATION ON EXPIRY OF THE TERMS (DURATION):** This contract shall be deemed to have been automatically terminated on completion of contractual terms or upon expiry of duration of the contract including extension thereof, if any, except otherwise as provisioned herein.

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

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

- 12.4 TERMINATION FOR UNSATISFACTORY PERFORMANCE: If the Company considers that, the performance of the Contractor is unsatisfactory, or not 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 fifteen (15) days notice in writing to the Contractor, if Contractor fails to proceed diligently to remedy to Company's satisfaction the matter(s) complained of, within a period of seven (7) days after such written notice is received by Contractor.
- 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 TERMINATION DUE TO NON-AVAILABILITY OF EQUIPMENT/ PERSONNEL: If at any time during the term of the Contract, breakdown/non-availability of Contractor's equipment and/or non-availability of personnel results in Contractor being unable to perform their obligations hereunder for a period of fifteen (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 thirty (30) days written notice to the Contractor due to any other reason not covered under the above Clauses 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 the services already availed upto the date of termination as per the provisions of the contract to the satisfaction of Company.
- 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 up to 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.  
In the event of termination of contract pursuant to the Clause 12.3, 12.4, 12.5 & 12.6, no Demobilization Charges shall be payable to Contractor.
- 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 demobilize their equipment, personnel & materials.

13.0 SETTLEMENT OF DISPUTES AND ARBITRATION: All disputes or differences whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration in accordance with the Rules of Indian Arbitration and Conciliation Act, 1996. The venue of arbitration will be Guwahati / New Delhi. 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 Fax and confirmed in writing to the applicable address specified below:

<u>COMPANY</u>	<u>CONTRACTOR</u>
OIL INDIA LIMITED 2- A, DISTRICT SHOPPING CENTRE SARASWATI NAGAR BASNI, JODHPUR-342005, RAJASTHAN Fax No. 0291- 2727050	

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

15.0 SUBCONTRACTING/ASSIGNMENT: Contractor shall not subcontract, transfer or assign the contract, or any part under this contract, to any third party(ies) except with Company's prior written consent. Under no circumstance, the Contractor shall be permitted to sublet/subcontract the drilling services. However, in case approval is obtained in writing from Company for subletting any petty support services, Contractor shall be fully responsible for quality performance of such services and complete execution of all the services under this Contract.

16.0 MISCELLANEOUS PROVISIONS:

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

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

regulation or bye-law.

- 16.3 During the tenure of the Contract, Contractor shall keep the site where the services are being performed reasonably free from all unnecessary obstruction and shall store or dispose off any equipment and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works no longer required. On the completion of the services, Contractor shall clear away and remove from the site any surplus materials; rubbish or temporary works of every kind and leave the whole of the site clean and in workmanlike condition to the satisfaction of the Company.
- 16.4 Key personnel cannot be changed during the tenure of the Contract except due to sickness / death / resignation of the personnel in which case the replaced person should have equal experience and qualification, which will be again subject to approval by the Company.
- 17.0 ASSOCIATION OF COMPANY'S PERSONNEL: Company's engineers/Company's hired engineers/consultants will be associated with the work throughout the operations and shall at all times have complete access to the Site for the purpose of observing, inspection or supervising the work performed by Contractor.
- 18.0 LABOUR: The recruitment of the labour shall be met from the areas of operation and wages will be according to the rates prevalent at the time which can be obtained from the District Authorities of the area. The facilities to be given to the labourers should conform to the provisions of labour laws as per contract Labour (Regulation and Abolition) Act, 1970. However, the Contractor shall not make the Company liable to reimburse the Contractor to the statutory increase in the wage rates of the contract labour appointed by the Contractor. Such statutory or any other increase in the wage rates of the contract labour shall be borne by the Contractor.
- 19.0 LIABILITY:
- 19.1 Except as otherwise expressly provided, neither Company nor its co-leases, 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 subcontractors. The Contractor shall protect, defend, indemnify and hold harmless Company from and against such loss or damage and any suit, claim or expense resulting there from.
- 19.2 Neither Company nor its co-leases, 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 subcontractors. Contractor shall protect, defend, indemnify and hold harmless Company from and against such liabilities and any suit, claim or expense resulting therefrom.

- 19.3 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 co-leases, 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.
- 19.4 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 co-leases, 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.
- 19.5 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.
- 19.6 Neither Contractor nor its servants, agents, nominees, assignees, Contractors, sub-contractors shall have any liability or responsibility whatsoever to whomsoever or injury or illness, or death of any employee of the Company and/or of its contractors or sub-contractors irrespective of how such injury, illness or death is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, contractors and sub- contractors. Company shall protect, defend indemnify and hold harmless Contractor from and against such liabilities and any suit, claim or expense resulting there from.
- 19.7 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.
- 19.8 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.
- 20.0 CONSEQUENTIAL DAMAGE: Neither party shall be liable to the other

for special, indirect or consequential damages resulting from or arising out of the contract, including but without limitation, to loss of 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.

21.0 INDEMNITY AGREEMENT:

21.1 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.

21.2 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.

22.0 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.

22.1 The Contractor shall not make Company liable to reimburse the Contractor to the statutory increase in the wage rates of the contract labour appointed by the Contractor. Such statutory or any other increase in the wage rates of the contract labour shall be borne by the Contractor.

22.2 Any permission from the Mines Directorate in connection with working in excess of 8 (eight) hours per day shift pattern by the Contractor shall have to be arranged by the Contractor before commencement of the Contract, in consultation with the Company. Moreover, since the Contractor's personnel engaged shall be working under the Mines Act and Oil Mines Regulations, the Contractor shall have to obtain any other relevant permission from the Mines Directorate to engage their employees in compliance with various procedures as per Mines Act. In case of any breach of procedures under Mines Act the Contractor shall be held responsible and they shall bear all expenses arising as a result thereof.

22.3 The Contractor shall not engage labour below 18 (eighteen) years of age under any circumstances. Persons above 60 (sixty) years age also

shall not be deployed except Manager / Superintendent.

22.4 Moreover, the Contractor should obtain and produce in advance to commencement of Work the following certificate / approvals:

- (i) Approval from DGMS / DDMS for shift patterns in excess of 8 hours.
- (ii) Total manpower list.
- (iii) License/certificate from specified electrical authorities for the rig and camp electrical personnel, if required.
- (iv) All certificates as per applicable laws including Mines Acts.
- (v) Regional Labour certificate, if required.

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

24.0 WITH-HOLDING

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

- (a) Non-completion of jobs assigned as per Part-3,Section-IV.
- (b) Contractor's indebtedness arising out of execution of this contract.
- (c) Defective work not remedied by the Contractor.
- (d) Claims by sub-contractor of the Contractor or others filed or on the basis of reasonable evidence indicating probable filing of such claims against the Contractor.
- (e) Failure of the 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 the Contractor to pay the cost of removal of unnecessary debris, materials, tools, or machinery.
- (g) Damage to another Contractor of the Company.
- (h) All claims against the Contractor for damages and injuries, and / or for non-payment of bills etc.
- (i) Any failure by the Contractor to fully reimburse the Company under any of the indemnification provisions of this contract. If, during the progress of the work the Contractor shall allow any indebtedness to accrue for which the Company, under any circumstances in the

opinion of the Company may be primarily or contingently liable or ultimately responsible and the Contractor shall, within five days after demand is made by the Company, fails to pay and discharge such indebtedness, then the Company may during the period for which such indebtedness shall remain unpaid, with-hold from the amounts due to the Contractor, a sum equal to the amount of such unpaid indebtedness.

- (j) With-holding will also be effected on account of the following :
- i) Garnishee order issued by a Court of Law in India.
  - ii) Income Tax deductible at source according to law prevalent
  - iii) from time to time in the country.
  - iv) Any obligation of the Contractor which by any law prevalent from time to time to be discharged by the Company in the event of the Contractor's failure to adhere to such laws.
  - v) Any payment due from the Contractor in respect of unauthorised imports.

24.1.1 When all the above grounds for with-holding payments shall be removed, payment shall thereafter be made for amounts so with-held.

24.2 Notwithstanding the foregoing, the right of the Company to withhold shall be limited to damages, Claims and failure on the part of Contractor which is directly / indirectly to some negligent act or omission on the part of the Contractor relating to the Contractor's obligation on the Contract

#### 25.0 APPLICABLE LAWS:

25.1 The Contract shall be deemed to be a Contract made under, governed by and construed in accordance with the laws of India.

25.2 Contractor shall ensure full compliance of various Indian Laws and statutory regulations 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:

- (i) Mines Act - as applicable to safety and employment conditions.
- (ii) Oil Mines Regulations, 1984.
- (iii) Workmen's Compensation Act.
- (iv) Payment of Wages Act.
- (v) Payment of Bonus Act, 1965.
- (vi) Contract Labour (Regulation & Abolition) Act, 1970.
- (vii) Employees Provident Fund and Family Pension Scheme.
- (viii) Interstate Migrant Workmen Act, 1979 (Regulation of employment and conditions of service).
- (ix) Income Tax Act & Sales Tax Act
- (x) Customs and Excise Act & Rules
- (xi) Insurance Act

26.0 RECORDS, REPORTS AND INSPECTION: The Contractor shall, at all times, permit the Company and its authorized employees and

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

27.0 **SUBSEQUENTLY ENACTED LAWS:**

27.1 Subsequent to date of bid submission, if there is a change in or enactment of any law or interpretation of existing law which results in an additional cost/reduction in cost under the contract to Contractor such as but not limited to Corporate tax, Local taxes, Octroi, Sales tax, Levies etc., the additional cost/reduction in cost shall be reimbursed by Company to Contractor or by Contractor to Company as the case may be.

28.0 **ROYALTY AND PATENTS:** Each party shall hold the other harmless and indemnify from and against all claim and proceedings for or on account of any patent rights, design, trade mark or other protected rights arising from any use of materials, equipment, processes, inventions and methods which have not been imposed on the attending party by the terms of the Contract or the specifications or drawings forming part thereof.

29.0 **WAIVER & AMENDMENTS:** 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 authorized 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.

30.0 **GRANTING OF PRICE PREFERENCE TO DOMESTIC BIDDERS (APPLICABLE TO ICB TENDERS ONLY):**

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

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

- 30.2 For meeting the criteria at (c) above, domestic bidders should obtain a certificate in original from practicing Statutory Auditor engaged by them for auditing their annual accounts, which could establish that not more than 80% of the works measured in terms of value has been sub-contracted to Foreign contractors. The original certificate indicating various sub-contracting details in percentage terms as well as in absolute value should be submitted in the priced bid. However, a copy of the Statutory Auditor's certificate indicating various sub-contracting details in percentage terms only and with price details should be submitted in the un-priced bid.
- 30.3 Consortium between domestic(Indian) and foreign firms led by Indian firm shall also be eligible for the price preference provided they fulfill the conditions of price preference given for domestic bidder at (a), (b) & (c) above. However Consortium between domestic and foreign firms led by foreign firms shall not be eligible for price preference even though their domestic partner satisfies the conditions given for domestic bidder at (a), (b) & (c) above.
- 30.4 It must be noted that above information so furnished, if at any stage found wrong, incorrect or misleading, will attract action as per rules/law.
- 30.5 The bidders are requested to check the latest position on the subject on their own and OIL does not accept any liability whatsoever on this account.

**(END OF SECTION – I)**

Part-3

SECTION – II

**SPECIAL TERMS & CONDITIONS OF CONTRACT**

**1.0 Payment Terms :**

1.1 Advance payment shall not be made by Company to the Contractor against this contract. Company shall release payment to the Contractor as per the following schedule after deducting income tax and liquidated damages etc., as applicable, within 30 days from the date of receipt of undisputed invoices.

(a) Payment shall be released activity wise (Ref. PROFORMA-II of Part-2, Section-I).

(b) After successful completion of each activity, 80% payment shall be released by Company against invoice from Contractor. 15% payment of each completed activities shall be released after completion of the phase to which the activity belongs and rest of the payment (5%) of each activity shall be released after completion of all phases.

1.2 All payments due to the Contractor shall be made at Contractor's designated bank through RTGS or e-payment mode. Bank charges, if any, shall be to the Contractor's account.

1.3 Payment of any invoice shall not prejudice the right of Company to question the validity of any charges therein provided Company within one year after the date of receipt of any such invoice, shall make and deliver to Contractor written notice of objection to any item or items, the validity of which the Company questions.

**2.0 Invoicing Procedure:**

2.1 Contractor shall submit four sets of invoice(s) to the HOD-Production at its office at Jodhpur for processing of payment duly highlighting the Tax components and their bank particulars.

2.2 Company shall within 30 days of receipt of invoice (s) notify the Contractor of any item (s) 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 charges at a later date as envisaged in clause No. 1.3.

2.3 Income Tax will be deducted at source from the invoice(s) at the applicable rates as per Indian Law.

2.4 Contractor shall maintain complete and correct records of all information on which Contractor's invoices are based on for two years from the date of invoice. Such records shall be required for making appropriate adjustment or payments by either party in case of subsequent audit query/objection.

### **3.0 Taxes and Duties:**

3.1 Tax leviable as per the provisions of Indian Income Tax Act 1961 and any other enactment/rules on income derived/payment received against this agreement will be on Contractor's account. The rates agreed and entered in to herein are inclusive of all such taxes, duties and levies, except "Service Tax.

Responsibility to pay service tax lies with **foreign service provider/contractor** if they are registered in India under service tax provisions & responsibility of service tax payment lies with Company if **foreign bidder** is not registered in India under service tax provisions.

3.2 Tax will be deducted at source from all payments released to the Contractor, at the specified rate of income tax as per provision of Indian Income Tax Act 1961.

3.3 Contractor shall be responsible for and pay the personnel taxes and Service Tax, as applicable.

3.4 Contractor shall furnish the Company, if and when called upon to do so, relevant statements of accounts or any other information pertaining to work done under this agreement for submitting the same to the tax authorities, on specific request by them. Contractor shall be responsible for preparing and filing relevant returns within the stipulated time to the appropriate authority.

3.5 Tax clearance certificates shall be obtained by the Contractor from appropriate authorities and shall furnish the same to Company if sought for.

### **4.0 Subsequently Enacted Laws :**

Subsequent to the date of submission of bid, if there is a change in or enactment of any Indian law which results in an additional cost or reduction in cost against this contract to Contractor, such additional cost shall be reimbursed by Company to Contractor on submission of documentary evidence that the Contractor has duly borne the additional implication as envisaged under the said law or such reduction in cost shall be refunded by Contractor to the Company as the case may be.

### **5.0 Applicable Laws:**

5.1 The contract shall be deemed to be an agreement made under, governed by and construed in accordance with the laws of India.

5.2 Contractor shall ensure full compliance of various Indian Laws and statutory regulations 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 agreement.

- (a) Mines Act 1952 – as applicable to safety and employment conditions.
- (b) Oil Mines Regulations, 1984
- (c) Workmen's compensation Act, 1923
- (d) Payment of wages Act, 1963
- (e) Payment of bonus Act, 1965

- (f) Contract labour (Regulation & abolition) Act, 1970
- (g) Employees Provident Fund and Family Pension Scheme
- (h) Interstate migrant workmen Act, 1979
- (i) Income Tax Act
- (j) Customs and Excise Act & Rules
- (k) Insurance Act
- (l) Minimum Wages Act, 1948
- (m) Service Tax Act

**6.0 Insurance:** Contractor must cover all their equipment and manpower with adequate insurance coverage as deemed fit. Company will not assume any responsibility whatsoever in the event of any eventuality to the Contractor's resources during job execution against the contract. Company reserve the right to demand a copy of such insurance coverage/policy for record.

**7.0 Liquidated Damages :**

7.1 The Contractor shall be liable to pay liquidated damages at the rate of 0.5% of the total evaluated contract value (including mobilization cost) for delay of each week or part thereof, subject to maximum of 7.5% of 1 (One) Year Contract Value, in the event of default by the Contractor as under;

- (a) Delay in timely mobilization of requisite Personnel within the stipulated period as mentioned under Scope of Work/Terms of Reference/Technical Specifications (Part-3,Section-IV).
- (b) Delay in completion/execution of the Activity within the scheduled time frame as mentioned under Annexure-I of Part-3,Section-IV.

NOTE: However, under no circumstance, the total quantum of Liquidated Damages against Sl. No. (a) and (b) above combined together will not exceed 7.5% of 1 (One) Year contract value.

(END OF SECTION – II)

Part-3

**SECTION-III**

**BID FORM**

**BID FORM**

Date :  
Tender No. : CJG3289P15  
To,  
OIL INDIA LIMITED (RP)  
2-A, District Shopping Centre  
Saraswati Nagar, Basni  
Jodhpur-342005, Rajasthan

Gentlemen,

Having examined the General and Special Conditions of the tender and the Scope of work/ 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 ----- months /days calculated from the date of issuance of Letter of Award (LOA) from the Company.

If our bid is accepted, we will obtain the guarantee of a Bank for a sum not exceeding ----- for the due performance of the Contract.

We agree to abide by the bid for a period of 120 days from the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before the expiry 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 lowest or any bid you may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2014.

(SIGNATURE)

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

Bidder's Name : \_\_\_\_\_  
Bidder's address: \_\_\_\_\_  
\_\_\_\_\_

Part- 3

SECTION - IV

**SCOPE OF WORK/ TERMS OF REFERENCE**

**1. INTRODUCTION**

OIL INDIA LIMITED (OIL), a premier National Oil Company, is engaged in the business of exploration, production and transportation of crude oil and natural gas for over five decades. It is a Navratna Company under Ministry of Petroleum and Natural Gas, Government of India and the second largest National Oil Company in the country.

Rajasthan Project, one of the projects of OIL, is engaged in exploration and production of Natural Gas from Jaisalmer Basin and exploration of Heavy oil in Bikaner-Nagaur basin within Jodhpur Sandstone of Infracambrian age of Western Rajasthan in India. OIL intends to exploit heavy oil from Baghewala structures with state of the art technology. This document addresses the requirement of consultancy services having adequate knowledge base and past experience in the field of Heavy Oil production.

**2. DEFINITIONS**

COMPANY	Oil India Limited
CONSULTANT	Organization that provides the consultancy services, having adequate knowledge base in the field of Heavy oil exploitation.
COUNTRY OF OPERATION	Means, India.
OPERATING AREA	Means the onshore area defined as Baghewala.
MINING LEASE	A legal contract for the right to work in a mine and extract the mineral or other valuable deposits from it under prescribed conditions of time, price, rental, or royalties
NELP	New Exploration Licencing Policy, conceptualized by the Government of India, during 1997-98 to provide an equal platform to both Public and Private sector companies in exploration and production of hydrocarbons with Directorate General of Hydrocarbons (DGH) as a nodal agency for its implementation.
OPERATING ENVIRONMENT	Operating environment is the set of conditions, which the SYSTEM/SERVICE

PACKAGE is exposed to during its full life cycle.

FUNCTIONAL SPECIFICATION

Features, characteristics, process conditions, boundaries and exclusions defining the performance of a product or service, including the quality assurance requirements.

BASIS OF DESIGN

Narrative description of what the designer will or has developed to meet the COMPANY project SCOPE.

STANDARD OPEARTING

Step-by-step written procedure that guides personnel to perform an activity safely in a consistent manner.

PROCEDURE

SCOPE

State scope of document as intention, i.e. what the document intended to achieve.

SHALL

Is used to indicate requirements that MUST be satisfied in order to comply with the Scope of Work.

SHOULD

Is used to indicate requirements that are preferred. CONSULTANT propose alternatives shall clearly identify as such and shall be supported with objective evidence.

MAY

Is used to indicate that a provision is OPTIONAL.

### 3. ABBREVIATED TERMS

<b>Term</b>	<b>Definition</b>
ML	Mining Lease
NELP	New Exploration Licensing Policy
LOA	Letter of Award
LOT	Leak off Test
DST	Drilling Stem Testing
BGW	Baghewala
NW	North West
ENE	East North East
WSW	West South West
BHA	Bottom Hole Assembly
ASTM	American Society for Testing and Materials
API	American Petroleum Institute
bbls	Barrels
BHP	Bottom Hole Pressure
BHT	Bottom Hole Temperature
BOD	Basis of Design
PEP	Project Execution Plan
SOP	Standard Operating Procedure
cp	Centipoise
Deg F	Degree Fahrenheit
IEEE	Institute of Electrical and Electronics Engineers
ISO	International Organization for Standardization
ALARP	As Low As Reasonably Practicable
NACE	National Association of Corrosion Engineers
NEMA	National Electrical Manufacturers Association
PCP	Progressive Cavity Pump
OD	Outside Diameter
ID	Inside Diameter

### 4. SCOPE

The scope of this document is to define CONSULTANT with COMPANY minimum requirement of activities to be performed and portrays the guidelines, which the CONSULTANT shall satisfy or adhere to in the performance of the work.

The basic scopes of activities are outlined as:

1. G&G Study and Static Reservoir modeling;
2. Selection of appropriate Production Technology based on Reservoir Study;
3. Preparation of Basis of Design (BOD) of Drilling and Well Completion;
4. Preparation of Project Execution Plan;

5. Preparation of Functional specification of Material based on BOD and Tender documentation for the Procurement of Materials and Hiring of Services and Technical Scrutiny thereafter;
6. Preparation of Standard operating Procedure and Bridging Document for all services of Drilling and Completion;
7. Monitoring of Drilling and Well Completion operations to ensure Proposed Well Engineering;
8. Preparation of detailed Project completion Report with Financial Analysis;

## 5. APPLICABLE DOCUMENTS

CONSULTANT should follow the industry recognized standards, specifications, codes, regulations and recommended practices listed in the following table. CONSULTANT shall comply with the latest edition of the listed documents unless otherwise stated.

### 5.1. RECOMMENDED PRACTICES AND INTERNATIONAL STANDARD

<b>Reference (API Standard)</b>	<b>Description</b>
API Spec 5CT	Specification For Casing and Tubing
API Spec 5D	Specification For Drill Pipe
API Spec 4F	Specification For Drilling and Well Servicing Structures
API Bull 5C2	Bulletin On Performance Properties of Casing, Tubing and Drill
API Spec 7	Specification For Rotary Drilling Equipment
API Spec 8	Specification For Drilling and Production Hoisting Equipment
API Spec 6A	Specifications for valves and wellhead equipment
API Spec 5L	Specification For Line Pipe
<b>Reference (API )</b>	<b>Description</b>
API Spec 5 B	Specification for Threading Gauging
API Bull 5A2	Bulletin On Thread Compounds For Casing, Tubing and Line
API Spec 13	Specification For Oil Well Drilling Fluid Materials
API Q1	Specification for Quality Program
API Spec 11D2 &D3	Design, design validation, manufacturing and data control, performance ratings, functional evaluation, repair, handling and storage of Progressive cavity pump.
API 11 B	Rod type, Grade and Chemical Properties, Mechanical Properties and Heat Treatment of Sucker Rods and Pony Rods
API Spec RP 17B	Recommended practice for flexible pipes

API 505	Recommended Practice For Classification of Locations For Electrical Installations at Petroleum Facilities Classified as Class 1, Zone 0, Zone 1 and Zone 2
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<b>Reference (API-RP)</b>	<b>Description</b>
API RP 5A&D3	Recommended Practice For Field Inspection of New Casing, Tubing and Plain End Drill Pipe cavity pump.
API RP 5C/C1	Recommended Practice For Care and Use of Casing and Tubing
API RP 11S5/API RP 11 S6	TEC line Cable
API RP 13F	Bulletin On Oil Gas Well Drilling Fluid Chemicals
API RP 54	Recommended Practices For Safety and Health For Oil and Gas Well Drilling and
API RP 59	Recommended Practices For Well Control Operations
API RP 44	Recommended practice for sampling petroleum reservoir fluids
API RP 520	Recommended practice for sizing, selection and installation of pressure relieving devices.
API RP 521	Recommended practice for pressure relieving and depressurizing systems

<b>Reference (ASTM)</b>	<b>ASTM Specifications</b>
ASTM A370	Standard Method and Definitions for Mechanical Testing of
ASTM E18	Standard Test Methods for Rockwell Hardness and Rockwell Superficial Hardness of
ASTM E317	Practice for Evaluating Performance Characteristics of Ultrasonic Pulse-Echo Testing
ASTM E428	Standard Practice for Fabrication and Control of Metal, Other than Aluminum Reference, Blocks used in Ultrasonic
ASTM D1418	Standard Practice for Rubber and Rubber Lattices
ASTM A 751	Methods, Practices and Definitions fo Chemical Analysis of Steel
ASTM D 395	Test Methods for Rubber Property- Compression Set
ASTM D 471	Standard Test Method for Rubber Property – Effect of Liquids
ASTM D 412	Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers.
ASTM D 2240	Test Methods for Rubber Property- Durometer Hardness

<b>Reference (NACE)</b>	<b>Description</b>
NACE TM-01-77	Laboratory Testing of Metals for Resistance to Specific Forms of Environmental Cracking in H2S Environments

NACE MR-01-75	Sulphide Stress Cracking Resistance Metallic Material for Oilfield Equipment
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<b>Reference (IS)</b>	<b>Description</b>
ISO 14310	Petroleum and gas Industries – Down hole Equipment – Packers and bridge plugs
ISO 11960	Specification for Casing & Tubing
ISO TS29001	Petroleum, petrochemical and natural gas industries Sector-specific, Quality Management systems Requirements for product and service supply organizations
ISO 15156 part 1,2 and 3	Petroleum and natural gas industries - Materials for use in H2S-containing environments in oil and gas production
ISO 15136 Part 1	Petroleum and natural gas industries – Progressive Cavity Pumps Systems for Artificial Lift – Part 1: Pumps
ISO 15136-2 Part 2	Petroleum and natural gas industries – Progressive Cavity Pumps Systems for Artificial Lift – Part 2: Surface Drive

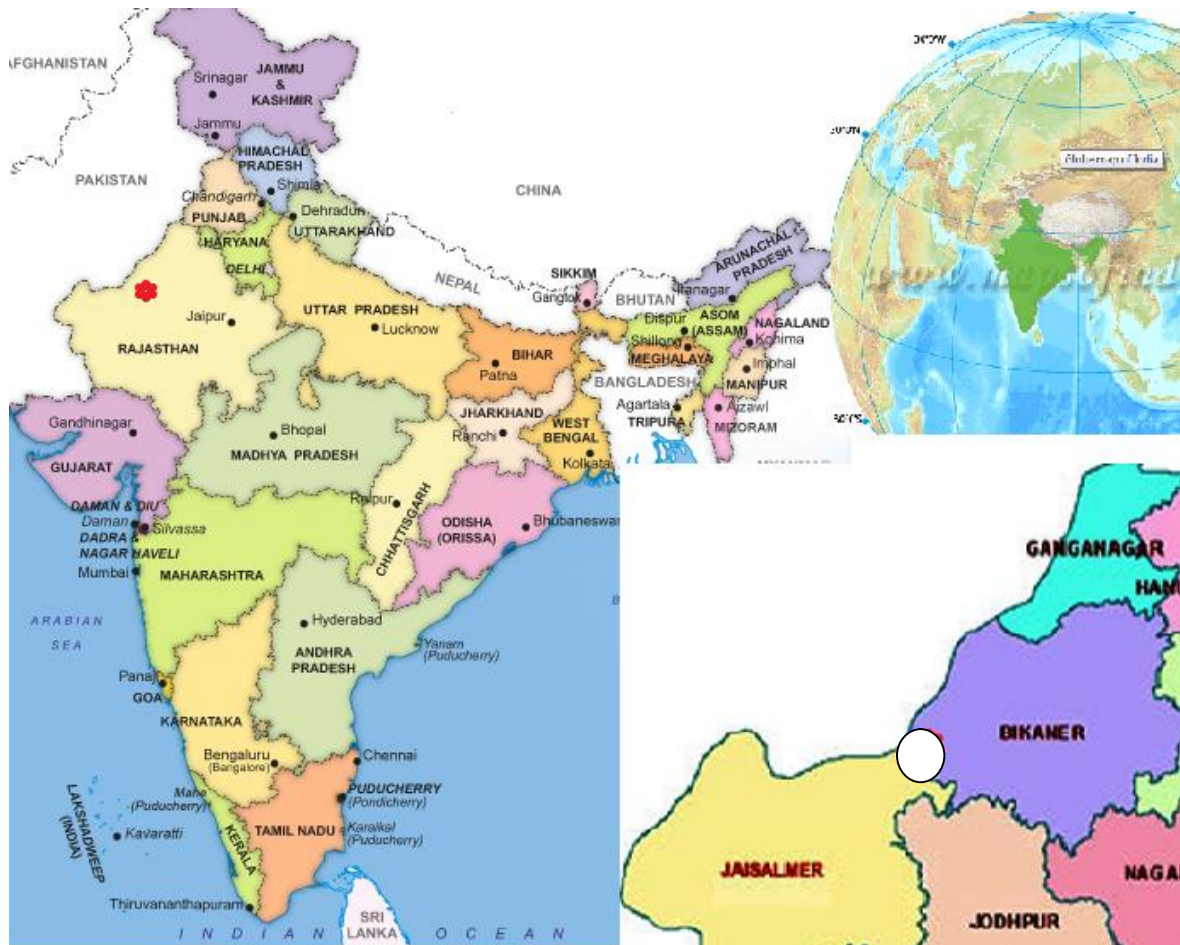
NOTE: the above list is not intended as being fully exhaustive and as such the COSULTANT shall comply with any other applicable Specifications, Standards or Codes in consultation with COMPANY.

## **6. OPERATING AREA**

### **6.1 GEOGRAPHIC LOCATION**

BAGHEWALA, THE AREA OF OPERATION, IS LOCATED AT THE WESTERN PART OF THE COUNTRY INDIA AND IN THE STATES OF RAJASTHAN. RAJASTHAN ENCOMPASSES MOST OF THE AREA OF GREAT INDIAN DESERT (THAR DESERT), WHICH HAS AN EDGE PARALLELING THE SUTLEJ-INDUS RIVER VALLEY ALONG ITS BORDER WITH PAKISTAN. THE REGION BORDERS PAKISTAN TO THE WEST, GUJARAT TO THE SOUTHWEST, MADHYA PRADESH TO THE SOUTHEAST, UTTAR PRADESH AND HARYANA TO THE NORTHEAST AND PUNJAB TO THE NORTH.

The nearest airport to the operating area is Jodhpur Airport and is located at a distance of around 350 km.



## 6.2. ENVIRONMENTAL CONDITIONS

Components	International System (SI)
<b>Ambient Temperature (Max. / Min.)</b>	<b>50 / -1 Deg C</b>
<b>Humidity (Max.)</b>	<b>40%</b>
<b>Average Rainfall</b>	<b>25 mm/year</b>
<b>Wind velocity(Max.)</b>	<b>128 KM/Hr</b>
<b>Frequency of Sand storm</b>	<b>March to September and occasional during the remaining period.</b>
<b>Seismic</b>	<b>Zone III, Moderate</b>
<b>Weather</b>	<b>Four distinct seasons - Pre monsoon, monsoon, post-monsoon and Winter</b>
<b>Topography of Site</b>	<b>Part of Thar Desert</b>

## 6.3. LOCATION OF THE STUDY AREA:

The coordinate of the study area are as under:

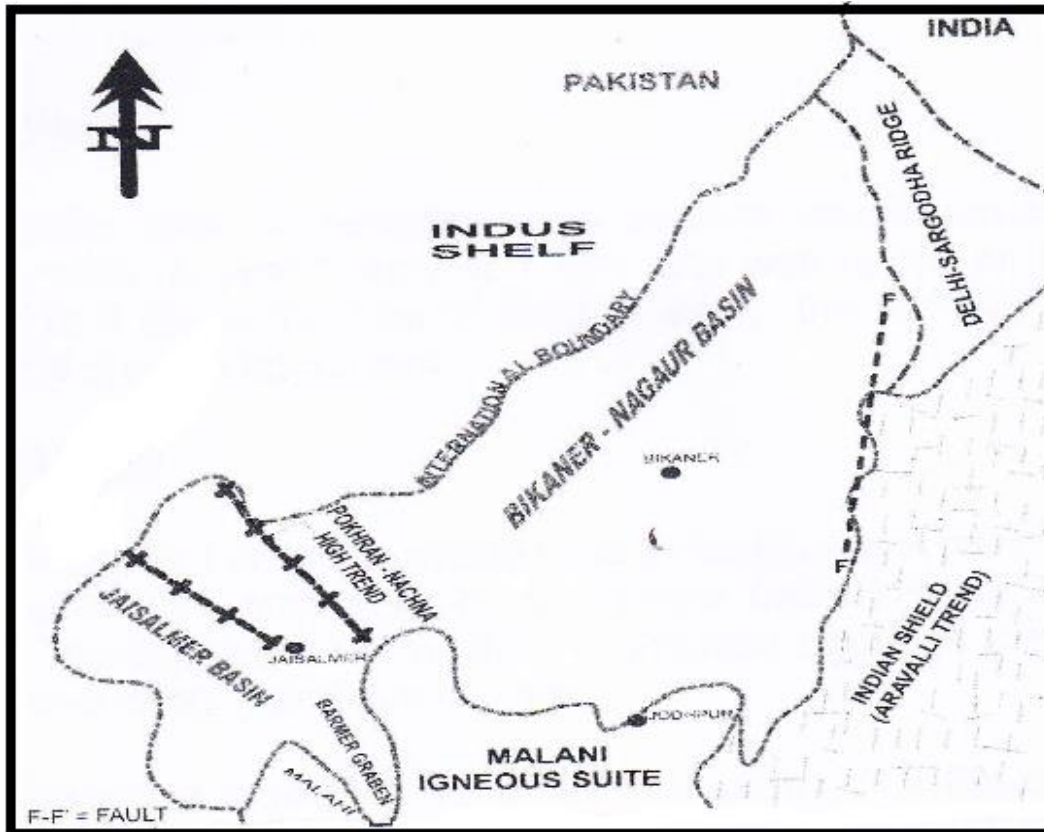
Pt.	Coordinates					
	Latitude(N)			Longitude(E)		
	degree	minute	second	degree	minute	second
<b>BAGHEWALA PML</b>						
<b>A</b>	<b>27</b>	<b>43</b>	<b>41</b>	<b>71</b>	<b>57</b>	<b>33</b>
<b>B</b>	<b>27</b>	<b>48</b>	<b>08</b>	<b>71</b>	<b>52</b>	<b>49</b>
<b>C</b>	<b>27</b>	<b>52</b>	<b>08</b>	<b>71</b>	<b>58</b>	<b>24</b>
<b>D</b>	<b>27</b>	<b>52</b>	<b>28</b>	<b>72</b>	<b>09</b>	<b>48</b>
<b>NELP-VI Block</b>						
<b>a</b>	<b>27</b>	<b>55</b>	<b>00</b>	<b>72</b>	<b>00</b>	<b>18.27</b>
<b>b</b>	<b>27</b>	<b>55</b>	<b>20.76</b>	<b>72</b>	<b>12</b>	<b>04</b>
<b>c</b>	<b>27</b>	<b>46</b>	<b>46</b>	<b>72</b>	<b>12</b>	<b>37</b>
<b>d</b>	<b>27</b>	<b>46</b>	<b>25.56</b>	<b>72</b>	<b>07</b>	<b>51.36</b>
<b>e</b>	<b>27</b>	<b>49</b>	<b>00</b>	<b>72</b>	<b>04</b>	<b>59.62</b>
<b>D</b>	<b>27</b>	<b>52</b>	<b>28</b>	<b>72</b>	<b>09</b>	<b>48</b>
<b>f</b>	<b>27</b>	<b>52</b>	<b>90.6</b>	<b>72</b>	<b>00</b>	<b>29</b>

A map showing the proposed study area is enclosed as Figure-1

## 7. REGIONAL STRATIGRAPHIC

### 7.1 REGIONAL GEOLOGY

Baghewala Mining Lease (ML) is located in the Bikaner-Nagaur basin of west Rajasthan. The Bikaner-Nagaur basin constitutes a Late Proterozoic-Early Paleozoic basin in the north western part of peninsular Indian shield. Structurally, Bikaner-Nagaur basin is bounded by the Aravalli ranges to the southeast, Delhi-Sargoda ridge to the northeast, and the pokhran-Nachna High to the southwest which separates it from Jaisalmer basin. To the northwest, the Bikaner-Nagaur basin extends to the Salt Range of the Upper Indus basin of Pakistan.



**Tectonic Map of Bikaner Nagaur Basin**

The Bikaner-Nagaur Basin of northwest Rajasthan is the remnant of a continental rim basin with sediments deposited in an epi-eric sea. The continental rim basin was developed on the margin of Gondwanaland during the late Neoproterozoic through Permian time. The generally accepted plate tectonic reconstruction for the end of Neoproterozoic time shows the relationship of the Arabian Salt basins with the Indian salt basin (Allen, 2007). The Bikaner-Nachna basin is bounded on the south-southeast by outcrops of the constituent formations. The western boundary is the Jaisalmer-Sulaiman basins that form the northward extension of the West India Rift-basin trend. The north and eastern margins are formed by the Salt Range thrust belt and the Lahore-Delhi arch. Only the outcrop belt has any resemblance to the edges of the original basin.

The Pokhran-Nachna Arch is a basement high initiating from the outcrop of the Jalor Granite member of the Malani Group southwest of the town of Pokhran (Roy, 2001), plunges northward west of Nachna and through the area of the Baghewala ML. This structural high originated in the Neoproterozoic, and it has been reactivated several times through geologic history.

At Baghewala ML, the Pokhran-Nachna Arch is expressed as a structural high where the Jodhpur Sandstone is absent or present as a thin layer over the crests of local highs. Seismic data near these wells show dipping beds of the Malani Rhyolite in nonconformity with a dacite intrusive body.

## **7.2 STRUCTURE:**

The Baghewala anticline is interpreted as a ramp anticline formed by the offset of a fault in the basement. Seismic data also suggest that a younger phase of

deformation was super imposed. It is characterized by normal faulting which is considered to be Jurassic-Cretaceous or younger in age. Seismic lines and cross sections show that the post-Jurassic sedimentary sequences become thicker and deeper towards the Himalayan Mountain Front. They also show that the folded post-Infra cambrian sequences are eroded on the crest of the structures by the Permian unconformity.

### 7.3 STRATIGRAPHIC SUCCESSION

The Stratigraphic Sucession of Bikaner Nagaur basin as under:

AGE		FORMATION	THICKNESS(m)	LITHOLOGY	
QUATERNARY	RECENT	Alluvium / Shumar	70-95	Fine to Medium Grained Sand	
	PLEISTOCENE				
TERTIARY	EOCENE	Palana and Marh	20 - 110	Clayey limestone and dark grey claystone	
	PALEOCENE				
MESOZOIC	CRETACEOUS	Parh Equivalent	30 - 35	Dark grey claystone and sandstone	
	JURASSIC	Jaisalmer + Lathi	290 - 380	Red claystone and ferruginous sandstone with minor coal	
	TRIASSIC				
PALEOZOIC	MARWAR SUPERGROUP	PERMIAN	Bap and Badhaura	58 - 70	Red yellow and grey claystone and silts with conglomerate
		Upper Carbonate	250 - 600	Laminated dolostone and limestone with red claystone interbeds and occasional marl	
		Nagaur	150 - 300	Mottled claystone with siltstone, fine grained sandstone and minor dolostone	
		Hanseran Evaporite Group	140 - 150	Anhydrite, Halite, claystone and dolostone	
		Bilara	50 - 120	Dolostone, fine grained sandstone & reddish brown claystone	
		Jodhpur	25 - 30	Coarse to fine grained, well sorted sandstone (pinkish), with siltstone and claystone	
PROTEROZOIC	PRE-CAMBRIAN	Malani Suits	120 - 350	Volcanoclastics with basalt and Rhyolitic flows	
		Crystalline Basement	--	Granitoid Rocks	

### 8. HYDROCARBON PROSPECT:

#### 8.1. WELL EVIDENCE

A total of 6(Six) wells have been drilled in the Baghewala ML area. The outcome of Drilling of these wells are outlined as under:

- 8.1.1 The presence of heavy oil in Baghewala structure has been established during 1991 through drilling of the first exploratory well BGW-1 in the structure. The well BGW-1, drilled down to the basement (TD – 1375 m), encountered heavy oil (17 – 19 Deg API) in the deeper Infracambrian formations viz., Jodhpur and Bilara.
- 8.1.2 The well BGW-2 was drilled at the same plinth of BGW-1 in order to test the Upper Carbonate. The well BGW-2, drilled down to 675m within the Upper Carbonate formation, conventional production testing of the Upper Carbonate through perforations showed water only.
- 8.1.3 To assess the northward extent of heavy oil within Jodhpur Sandstone, BGW-3 was drilled at a distance of about 1.3 km NW of well BGW-1 as an appraisal well. Well BGW-3 was drilled down to a final depth of 1350 m within Malani Volcanics. Initial production testing was carried out in this

well in Jodhpur sandstone. On testing, through DST, the well showed inflow of only formation water with traces of asphaltic materials.

- 8.1.4 The fourth well, BGW-4, is located at a distance of about 2.4 km towards ENE from well BGW-1. This well was drilled as the second appraisal well of Baghewala structure and drilled down to 1152 m within Malani Volcanics. On conventional production testing of 1090 m Jodhpur Sand, the presence of high viscous heavy oil was established.
- 8.1.5 The well BGW-5 is located at a distance of about 2.6 km towards WSW from BGW-1. This is the third appraisal well drilled in Baghewala structure. The well was drilled down to a depth of 1252m within Malani Volcanics. On conventional production testing of 1181 m Jodhpur Sand, the presence of high viscous heavy oil was established.
- 8.1.6 The well BGW-6 was drilled as Pilot well for recovery of Bitumen from Upper Carbonate Formation using Steam Injection technology on experimental basis. The well was drilled down to a final depth of 857m and completed for cyclic steam injection. However, during injection of steam attempted twice in 2006 and 2007, operational problem related to elongation of casing with well head and leakage of steam were encountered and the project had to be suspended.
- 8.1.7 Two wells Punam-1 and Tavriwala-2 was drilled in two different structures (East of Baghewala Structure) in 2012 and encountered heavy oil in Jodhpur formation. The well Punam-1 was drilled in NELP area, is located around 15 km towards NE from BGW-1 and major part of the structure falls in Baghewala PML area. Tavriwala-2 was drilled in Tavriwala structure located around 10 km towards west from BGW-1.

## 8.2 PRODUCTION EFFORT

- 8.2.1 Experimental Production Testing of BGW-1 and BGW-4 was carried out in the year 1995 with Progressive Cavity Pump and Bottom Hole Heater Completion and achieved a maximum production rate of 3-4 KLPD (18-25 BOPD).
- 8.2.2 In the year 2009-10, another Experimental Cold Production of Heavy Oil was carried out with Chemical Stimulation and Sucker Rod Pump Artificial lift assistance in BGW-1 and BGW-4. An intermittent production rate of 4.5-5.5 KLPD (25-30 BOPD) was achieved.
- 8.2.3 In the year 2012, production testing was carried out in Punam-1 with Chemical Stimulation and Sucker Rod Pump Artificial lift assistance and an intermittent production rate of 1.4 KLPD (7.7 BOPD) was achieved.

## 8.3. RESERVOIR/ROCK MATRIX/PETROPHYSICAL CHARACTERISTICS:

Description	Parameters	Value
<b>Reservoir Parameters</b>	<b>Reservoir Depth</b>	<b>1050 – 1300 m</b>
	<b>Pay Thickness</b>	<b>5 – 23 m</b>
	<b>Bottom Hole Pressure</b>	<b>1600 psi @ 1100m at BGW structure and 1044 psi @ 1190m in</b>

		<b>neighboring Punam Structure</b>
	<b>Bottom Hole Temperature</b>	<b>50°C – 52°C</b>
<b>Rock Matrix Characteristics</b>	<b>Porosity</b>	<b>18 – 20%</b>
	<b>Permeabilty</b>	<b>&lt;1000 MD</b>
<b>Petro-physical Characteristics</b>	<b>°API</b>	<b>14.7° – 21.8 °API</b>
	<b>Pour Point(°C)</b>	<b>21° – 27°</b>
	<b>Sp. Gravity</b>	<b>0.9679 – 0.9229</b>
	<b>Viscosity (cp)</b>	<b>13650 at 50°C</b>

## 9. HSE DESIGN GUIDELINE

The design shall follow a process in which significant risks to Health, Safety and the Environment are identified and assessed in the initial design phase.

Inherent safety, control and recovery measures, necessary to reduce risks to ALARP levels, shall be determined and thereafter incorporated in the design, The measures chosen to achieve ALARP HSE risk levels shall be suitable for implementation during the detailed design phase and capable of being maintained during the operational phase.

Hazards and effects studies shall be carried out during the initial phase to provide early design input information. This approach aims to maximize the opportunities for risk reduction offered by a pro-active HSE consideration in design rather than by retrospective HSE review and subsequent design changes. Adopting this approach will create opportunities to minimize and / or eliminate HSE related cost and schedule impacts.

HSE activities during the design process shall focus on the identification of HSE risks and the hazards and effects that generate them. Risk management shall be by control (threat barriers) and recovery (mitigation and emergency response) measures, to ALARP risk levels.

The design, as well as being pro-active in the use of outputs from hazards and effects studies (HAZIDs and HAZOPs), shall use the application of appropriate engineering experience, judgment and applicable codes and standards to achieve the highest practicable reductions in risks to health, safety and the environment.

## 10. PROJECT MANAGEMENT

CONSULTANT shall provide a full time dedicated Project Management team for the proper and continuous supervision and control of the WORK.

CONSULTANT shall manage all activities and phases of the WORK in order to ensure performance in accordance with the requirements. In this regard, CONSULTANT shall implement sound and effective procedures for control, co-ordination and reporting of activities and interfaces with COMPANY and third parties, if any.

CONSULTANT's project management activities shall also include:

1. Continuous appraisal of performance, compared to the planned measures.
2. Analysis of trends and deviations and early implementation of corrective actions.
3. Realistic forecasting, taking into account performance to date.

4. Keeping COMPANY informed of progress, status and outlook, in a timely manner, and providing the formal reports as required per each phase.

## 11. INFORMATION SYSTEM/TECHNOLOGY

All documentation produced in connection with the WORK shall be transmitted and stored using electronic files. Technical documents produced by CONSULTANT and requiring COMPANY Comment/Approval shall be transmitted electronically and the Approved document shall be provided to COMPANY in an Approved file format. CONSULTANT shall deliver technical presentation to COMPANY at Jodhpur/Noida before submission of final report during phase-I. Final documentation, both in paper copies and compact discs formatted, shall be provided to COMPANY.

## 12. BROAD SCOPE OF WORK

The scope of work is subdivided into three phases and outlined as under:

Phase	Activities
<b>Phase-I</b>	G&G Study and Static Reservoir Modeling;
	Selection of appropriate Production Technology based on Reservoir Study;
	Preparation of Basis of Design (BOD) document of Drilling and Well Completion;
	Preparation of Project Execution Plan;
<b>Phase-II</b>	Preparation of Functional specification of Material based on BOD and Tender documentation for the Procurement of Materials and Hiring of Services and Technical Scrutiny thereafter.
	Preparation of Standard operating Procedure and Bridging Document for all services of Drilling and Completion;
<b>Phase-III</b>	Monitoring of Drilling and Well Completion operations to ensure Proposed Well Engineering;
	Preparation of detailed Project completion Report with Financial Analysis;

### 12.1 PHASE - I

Consultants shall carry out G & G Study and Static Reservoir modeling with his own personnel, hardware/software and identify the locations for drilling. CONSULTANT shall also carry out assessment of appropriate production technology and planning the same covering detailed Well Engineering aspects and accordingly provide the Well Completion Design and Project Execution Plan.

#### 12.1.1 G&G Study and Static Reservoir Modeling :

### **Objective of the Study:**

The objective of study is to define a geological model for exploitation of highly viscous heavy oil from Baghewala field and the adjoining areas. CONSULTANT shall utilize all the available geoscientific data / reports viz. seismic, well data, well logs, reports, etc for integration during the study.

The job involves a detailed analysis of the identified locations for their prospectivity, estimation of hydrocarbon reserves, resources, risk weighted economic analysis, using state-of-the art technology and recommendation for horizontal/vertical wells with inter-se priority.

### **Work Programme:**

The study area shall confined to areas of interest of about **410 Sq.Kms** covered by 3D seismic data acquired during 2008-09 (**Refer Figure-1**). **The study area consists 210 Sq.Kms of Baghewala ML area and 200 Sq.Kms of adjoining NELP-VI exploration Block:RJ-ONN-2004/2.** The 3D Seismic data sets are available **separately** for Baghewala ML area and the adjoining NELP Block RJ-ONN-2004/2. Data cropping and merging of the data sets, if required, shall be carried out by the CONSULTANT. The heavy oil discoveries of Baghewala, Punam and Tavriwala-2 Structures fall within this area. The Details of Data Acquisition & Processing Parameters are given in Appendix-I and details of available Technical data in Annexure I (a,b,c).

The Work Programme for the proposed G&G Study is as under:

- i) Data Collection & Review/Study of all the available geo-scientific and engineering data/reports. Details pertaining to availability of data are appended in Annexure-Ia, Ib & Ic .
- ii) Develop a static reservoir model based on available for Jodhpur Sandstone formation to recover heavy oil from Baghewala structure and adjoining areas.
- iii) The work programme includes seismic interpretation, structure description, identification of depositional sedimentary units, depositional environments, seismic-log correlation, stratigraphy and production units, Sedimentological and Mineralogical analysis, sample and/or core analysis, well correlation and reservoir engineering studies. Integration of all the results to build a static model, estimation of in-place hydrocarbon volumes for Jodhpur Sandstone formation to recover heavy oil from Baghewala structure and adjoining areas. The reservoir studies will include – Reservoir analysis, Petrophysical Studies (porosity, permeability, wettability, pore pressure and saturations), reservoir characterization, radial and rectangular models for vertical and horizontal wells etc.
- iv) CONSULTANT shall map at least five (5) stratigraphic horizons i.e Upper Carbonate, HEG, Bilara, Jodhpur & Basemant.

**The above studies shall be divided into the following phases and shall consist of:**

- a) **Data Collection and Review** – Consultant shall review the available well data, technical reports, wireline logs, geological maps and other available data which will provide an understanding of the geology and hydrocarbon system of the area under study. Geological correlations will be carried out using available well log data. The consultant shall review the routine & special core analysis, PVT reports, Pressure Tests wherever applicable.
- b) **Seismic Interpretation**- The entire Baghewala and its adjoining areas have been covered by 3D seismic survey. The information obtained from wire line logs shall be transferred to seismic and having established horizons subject to availability

of synthetic seismogram/VSP/Check Shots/T-Z curves, they will be correlated to the corresponding reflectors. 3D Seismic Pres-Stack Inversion studies have been carried out recently over heavy oil bearing Baghewala and Punam structures. The results of these 3D Seismic Pres-Stack Inversion studies and the Attribute analysis results of the earlier studies pertaining to the study area need to be used during the interpretation. This will be done to determine the lateral extent of the reservoir bodies correlated.

- c) **Structural Mapping** – Mapping of at least five (5) stratigraphic horizons i.e Upper Carbonate, HEG, Bilara, Jodhpur & Basement shall be carried out to identify the structural elements present, faults, folds etc. in order to build the static reservoir model.
- d) **Sedimentological and Mineralogical analysis** - To determine grain size distribution, sorting, texture, petrography etc. of the Jodhpur sandstone formation including mineralogical analysis.
- e) **Prospect Analysis**: To carry out prospect analysis of the prospects identified in the study area.
- f) **Petrophysical Analysis** - The consultant shall carry out petrophysical analysis to estimate area-wise porosity, connate water saturation, permeability, clay content, wettability, etc, using the available log data and petrophysical property modelling. Based on the seismic, petrophysical, geological and classical reservoir studies, the Consultant shall categorize the reservoirs identified. The results of the available 3D Seismic Pres-Stack Inversion studies and the Attribute analysis Studies of the earlier studies pertaining to the study area need to be used during Reservoir studies.
- g) **Resource Estimation & Techno-Economic Analysis** – Volume of hydrocarbon originally in-place needs to be calculated as per SPE/WPC norms. The hydrocarbon volumes in-place figures will need to be validated/checked and certified by OIL. If applicable, volumetrically estimated STOIP will also be cross checked by the Consultant by relevant material balance techniques. This will also include geological, engineering and economic analysis of the prospects identified. Various alternatives available according to geological, engineering and economic factors shall be provided.
- h) **Development of Static Model** - Static models for the reservoirs need to be built with the following workflow : Structural Modelling, Reservoir Characterisation, Rock Typing, Property Modelling, and Volumetrics.
- i) **Identification of Well Locations** – To identify Vertical / Horizontal well locations for development drilling based on the results of integrated reservoir study with the purpose of testing for the hydrocarbon exploitation of the area under study. Well plan & montage diagrams shall also be provided for the proposed wells. The priority list of the proposed wells shall be provided based on ranking and Techno-Economic Analysis. **However, the drilling will be carried out for the locations recommended in Baghewala Heavy oil field only.**

**j) Perform simulation of recovery process for Jodhpur reservoir of Baghewala area.**

12.1.2 Selection of Appropriate Production Technology:

CONSULTANT shall select the best suited Production technology for the Exploitation of heavy oil from Baghewala Structure based on G&G study. Techno-Economic feasibility analysis shall substantiate the Proposed Technology.

The required Deliverables are:

- List of all the options considered with reasons & recommendation for the best Technology.
- Concept Selection note inclusive of presentation about selection criteria.

12.1.3 Appraisal and Approval

CONSULTANT shall submit to COMPANY a preliminary interim report within 28 (Twenty Eight) weeks from the date of award of contract in the form of 3 (Three) hard copies and 3 (Three) Soft Copies for necessary approval. The report shall incorporate the initial interpretation of the data provided, preliminary recommendation on well locations, Proposed Production Technology and shall be in English language.

CONSULTANT shall deliver a technical presentation to COMPANY at Jodhpur/Noida before submission of final report

12.1.4 Preparation of Basis of Design of Drilling :

CONSULTANT shall prepare the Basis of Design (BOD) document of Drilling based on the proposed Production technology, reservoir parameters and Crude Rheology. The BOD shall include, but not limited to, as under:

- (a) Well Architecture: Hole geometry/well trajectory and Deviation plan as per Well Engineering Design;
- (b) Tubular (Casing/Liner/Tubing) Design and Casing point selection: Stress analysis, Metallurgy Selection and selection of proper Thread connection based on Proposed Well Engineering/Production Technology. Sensitivity analysis to optimize tubing size;
- (c) Well head Design: To define the specification of “A”, “B” and “C” section of Wellhead for the proposed Well Engineering/Production Technology.
- (d) Detailed specification of Drilling Rig Package with associated service;
- (e) Drilling String Design inclusive of BHA for each stage of Drilling;
- (f) Bit Selection;
- (g) HAZID/HAZOP Study;
- (h) Drilling Fluid Design: The proposed well will be drilled through highly fractured carbonate/dolomite section where moderate to severe mud loss

may be encountered. CONSULTANT has to keep this in consideration in Fluid design.

- (i) Selection of Cement composition and Cement additives;

#### 12.1.4.1 Drilling Services Stipulation:

CONSULTANT SHALL DEFINE THE SERVICES LIKE DIRECTIONAL/HORIZONTAL DRILLING, MUD ENGINEERING, LOGGING, CORING, THERMAL CEMENTING & CASING PRE-STRESSING (IF NECESSARY) ETC. REQUIRED FOR SUCCESSFUL DRILLING OPERATION BASED ON WELL ENGINEERING DESIGN AND PROPOSED PRODUCTION TECHNOLOGY.

#### 12.1.5 Preparation of Basis of Design of Well Completion :

CONSULTANT shall prepare the Basis of Design (BOD) document of Well Completion based on the proposed Production technology, reservoir parameters and Crude Rheology. The BOD shall include, but not limited to, as under:

- (a) Well Completion Design: Well completion engineering required for the proposed technology. Well Completion Engineering shall includes, but not limited to, selection/design of best suited Artificial lift system, Sub-surface system design for reservoir monitoring, production and safety compliance. Techno-Economic feasibility analysis shall substantiate the design;
- (b) Metallurgy selection for all well completion equipment;
- (c) HAZID/HAZOP Study;

##### 12.1.5.1 Well Completion Services stipulation:

CONSULTANT shall define the services required for successful well completion operation and Production Testing based on the proposed Production Technology.

##### 12.1.5.2 Surface Facility Design:

CONSULTANT shall design the Surface facilities required for the production testing of proposed Development wells. The scope shall include, but not limited to, produced fluid treatment, storage, transportation and monitoring/recording of testing parameters.

##### 12.1.6 Cost Estimate:

CONSULTANT shall provide COMPANY detailed Project Cost model and estimate. The cost shall include all the Man, Material and services required for the Drilling, Well Completion, Surface Facilities and Well Testing Operation.

##### 12.1.7 Preparation of Project Execution Plan:

CONSULTANT shall prepare the Project Execution Plan to define the approach to be used by the Project Team to deliver the intended project management for the Scope of the project.

The content of the Project Execution Plan would be as under:

- 1. Project Definition;

2. Project Schedule;
3. Roles and Responsibilities Matrix;
4. Monitoring and Reporting strategies;
5. Cost Plan and Cost Management Procedures;
6. Risk Analysis;
7. Safety issues;
8. Environmental policies;
9. Quality Assurance Strategy;
10. Document Control system and Document distribution Matrix;
11. Equipment and Service Requirement;
12. Long lead Items;
13. Contracting and Procurement Strategy;
14. Operational Strategy;
15. Installation and Commissioning Strategy

#### 12.1.8 Appraisal and Approval

CONSULTANT shall submit to COMPANY Basis of Design Document and Project Execution Plan in the form of 3 (Three) hard copies and 3 (Three) Soft Copies for necessary approval and shall be in English language.

CONSULTANT shall deliver a technical presentation to COMPANY at Jodhpur/Noida before submission of final report.

### **12.2 PHASE - II**

CONSULTANT shall Prepare Functional specification of Material based on BOD and Tender documentation for the Procurement of Materials and Hiring of Services and to perform Technical Scrutiny thereafter.

#### 12.2.1 Tender Documentation:

CONSULTANT shall prepare Tender documentation for the procurement of Materials and Hiring of Services required for the approved Well Engineering/Production Technology during Phase-I and shall submit to COMPANY for approval.

COSULTANT shall depute their representative for the Pre-Tender meetings of all tender processes.

COMPANY shall perform the Tendering Processes for the procurement of the above materials and hiring Services.

#### 12.2.2 Technical Scrutiny:

Technical scrutiny of all bid documents pertaining to the Tender processes of material and services shall be done by CONSULTANT and Techno-Economic evaluation report of each tendering process shall submit to COMPANY for approval.

COMPANY shall take necessary actions for procurement of materials / awarding of contracts to the selected BIDDERS.

#### 12.2.3 Technical Discussion:

COMPANY may arrange for Technical Discussion at Jodhpur/Noida during Phase-II. CONSULTANT shall depute their competent personnel for the same.

#### 12.2.4 Standard operating Procedure and Bridging Document :

CONSULTANT shall prepare standard operating procedure of all the operations involved in Drilling and Well Completion.  
The elements of SOP shall be as under:

- Rationale for SOP
- Detailed description of procedure – based on best international practice/standards
- Monitoring actions
- Accountability

Bridging document of all services shall be made by CONSULTANT to eliminate idle time and to ensure efficient operation. This Bridging Document shall illustrate the functional links, responsibilities and the control interfaces of the services.

#### 12.2.5 Time Vs Activity Chart

CONSULTANT shall prepare Time vs. Activity chart for the execution phase of the project taking into account the Bridging Document formulated with various Service Providers.

### **12.3 PHASE – III**

#### 12.3.1 Supervision and monitoring:

CONSULTANT shall carry out Supervision and Monitoring of all activities during Well Drilling and Completion to ensure proposed well Design.

CONSULTANT shall provide competent personnel, as mentioned under section 15.2 of this document, on round the clock basis at well site throughout the Drilling, Completion and Production Testing phase to ensure the standard operating procedure is followed and the job is executed as per approved drilling, completion and testing program, in an effective and safe manner without any harm to equipment, personnel or the environment.

CONSULTANT shall optimize logistic solution with cost-benefit analysis.

##### 12.3.1.1 Performance and cost monitoring

CONSULTANT shall monitor and Evaluate performance of services involved in Drilling, Well Completion and Production Testing operation and Evaluate results versus goals and performance of service companies. CONSULTANT shall

(a) RECORD DAILY COST.

(b) MONITOR NON-PRODUCTIVE TIME AND TECHNICAL PERFORMANCE OF THE RIG AND SERVICES AND TO PROVIDE NECESSARY ADVICE FOR CORRECTIVE ACTIONS TO ASSURE A PROCESS OF CONTINUOUS IMPROVEMENT.

#### 12.3.2 Project Completion Report and Financial Analysis:

CONSULTANT shall prepare a detailed report on the study carried out during Phase-I including the findings of Phase III and commercial feasibility of Exploitation of heavy oil with the proposed Production Technology.

### **13. PROJECT TIME LINE:**

The start of project shall be considered with the CONSULTANT personnel arrive at Jodhpur for Technical Data Collection for phase I and detail discussion to define project objectives and pre Job planning. Technical Data shall be handed over to CONSULTANT on signing of Confidentiality Agreement.

The COMPANY project time line illustrates the details of activities, Mile stones and completion time with effect from issue of LOA and shall be as under:

<b>Sl. No.</b>	<b>Details of Work</b>	<b>Mile- Stone</b>	<b>Elapsed Time</b>
<b>Time Schedule and Milestones for Phase - I</b>			
1.	Data collection, visit to OIL's Office.	<b>1</b>	Within 25 Days from date of issue of LOA
2.	Review/Study of the Data <b>(Details of the available data are given in Annexure-I (a, b, c).</b>	<b>2</b>	4 Weeks from date of issue of LOA
3.	Data Loading, Geological & Geophysical interpretation [Integrated 3D seismic data interpretation incorporating geological, well data, Mapping of Five(5) Horizons, incorporation of available results of Attribute analysis, 3D Seismic Pre-stack Inversion of earlier studies etc as per Work Programme].		12 Weeks from date of issue of LOA
4.	Sedimentological, Mineralogical & Petrophysical analysis.		10 Weeks From date of issue of LOA
5.	Development of Static Geological Model, Reservoir Facies, Estimation of in-place hydrocarbon volumes.		18 Weeks from date of issue of LOA
6.	(a) Perform Simulations of recovery processes for Jodhpur reservoir of Baghewala and other Wells in the study area and Selection of appropriate Production Technology. (b) Preparation of Well Plan & Montage diagrams for the recommended wells for drilling. (c) Techno-economic analysis of the identified prospects. (d) Submission of draft Report & presentation at Jodhpur/Noida and approval.	<b>3</b>	28 Weeks from date of issue of LOA
7.	(a) Preparation of Basis of Design Document of Drilling. (b) Preparation of Basis of Design Document of Well Completion. (c) Preparation of Project Execution Plan.	<b>4</b>	36 Weeks from date of issue of LOA
8.	Identification of services and materials required for Drilling, well completion and Production testing of propose four wells.	<b>5</b>	38 Weeks from date of issue of LOA
9.	Submission of final report and presentation at Jodhpur/Noida and approval.	<b>6</b>	40 weeks from date of issue of LOA
<b>Total Time for Phase-I</b> (G&G Study and Well Completion Design)			<b>40 Weeks From date of issue of LOA ( 10 months)</b>
<b>Time Schedule and Milestones for Phase - II</b>			

<b>Sl. No.</b>	<b>Details of Work</b>	<b>Mile- Stone</b>	<b>Elapsed Time</b>
10.	Prepare functional Specification and Bid documents in consultation with COMPANY for procurement of materials and hiring of services as determined in Phase-I.	<b>1</b>	<b>53 Weeks From Start of Phase II</b>
11.	Participation in pre-tender meetings for various materials / services.		
12.	Technical and Commercial Evaluation of the Bids and approval.		
13.	Preparation of Procurement Management Review Report.		
14.	Preparation of Standard Operating Procedures all operation and Bridging document of all services.	<b>3</b>	
15.	Preparation of Time vs. Activity chart	<b>4</b>	
<b>Total Time for Phase-II</b>			<b>53 Weeks From Start of Phase II</b>
<p><b>Elapsed Time stipulated for phase-II specifies the time period from preparation of Bid document (Sl. No. 10) till receive of all material and completion of other activities (Sl. No. 13, 14 and 15) thereafter.</b></p> <p><b>COMPANY and CONSULTANT shall prepare Time Vs. Activity chart for all the activities of Phase-II after completion of Phase-I, considering the total time frame stipulated for Phase-II i.e. 53 Weeks From Start of Phase II. CONSULTANT shall follow the Time line for timely completion of PHASE-II.</b></p>			
<b>Time Schedule and Milestones for Phase - III</b>			
16.	Deployment of experts for Execution Phase as mentioned under section 15 "CONSULTANT PERSONNEL".	<b>1</b>	Within 15 days from the date of issue of 'Call off' letter.
17.	Prepare and submit Drilling and Completion reports along with other associated reports in consultation with COMPANY representatives, after completion of each well.	<b>2</b>	Within 15 days from the date of Completion of Production Testing of each well.
18.	Performance Evaluation of each well and based on that review/modification of subsequent well designs.	<b>3</b>	Within 15 days from the date of Completion of Production Testing of each well.
19.	Submit comprehensive report at the end of the project that includes financial analysis and performance evaluation of the entire project with detailed break-up.	<b>4</b>	Within 30 days from the date of Completion of Production Testing of last well.
<b>Total Time for Phase-III</b>			<b>78 Weeks From Start of Phase III</b>
<p><b>Elapsed Time stipulated for phase-III specifies the time period for Drilling and Production Testing of Four wells and preparation/submission of comprehensive report at the end of the project with financial analysis and performance evaluation of the entire project (Sl. No. 19).</b></p>			

## **14. REPORTS & DELIVERABLES:**

### **14.1 PHASE – I**

The Work shall be documented, after completion of PHASE-I, by way of a comprehensive written report illustrated with text figures. **The Final Report shall address the following key points:**

1. Introduction.
2. Exploration History.
3. Database: Seismic Data, Well Data, Sedimentological, Mineralogical, Petrophysical Reservoir Engineering data.
4. Regional Geology: Structural Framework, Tectono-stratigraphy, Depositional Environment, Sand development etc.
5. Seismic Interpretation: Seismic Interpretation and Depth Conversion, Structure etc.
6. Maps and Figures: The following Maps and figures of are to be generated:
  - 6.1 All maps (Time Contour / Depth Contour / Time Thickness / Isopach / Isopay) of interpreted horizons in 1:50,000 & 1:25,000 scales with contour interval of 10ms/10m.
  - 6.2 Prospect Maps for the identified prospects in 1:10,000 or suitable scale.
  - 6.3 All geological sections/correlations/seismo-geological sections in industry standard Horizontal and vertical scale.
  - 6.4 Interpreted seismic sections through recommended locations (In line & Cross Line).
  - 6.5 Velocity Maps in industry standard scale.
  - 6.6 Interpreted logs in 1: 200 & 1: 500 (Elan/ Ultra or equivalent).
  - 6.7 Well Plan & Montage Diagrams.
  - 6.8 Reservoir Model Maps (Porosity, Permeability, Sw) in 1:50,000 scale.

7. Petroleum Geology: Petroleum System Analysis (Reservoirs, cap Rocks and Seals), Geological Modeling etc.
8. Geological Modelling along with spreadsheet of reservoir rock and fluid parameters used in the model.
9. Recommendations of specific open-hole and cased hole wire-line services.
10. Techno-Economic Analysis: Method, Volumetric, Risk Analysis, Ranking etc.
11. Spreadsheet and Summary Report of the estimated Hydrocarbon Volumes in-place. The consultant shall submit a report about their confidence over the volumetric estimates of different reservoirs and their estimates for reservoir properties, STOIP and Expected Ultimate Recovery volumes.
12. A detailed techno-economic comparison of the various alternatives available for field development.
13. Details of Simulation of Recovery Processes.
14. Well Locations for Drilling: Recommendation of locations for drilling, based on the results of the above integrated interpretation study, their ranking, risking and identification of Vertical and Horizontal well locations for Jodhpur formation indicating priority (such as 1-> 2-> 3-> 4-> etc) and suitable for trial production.
15. To Propose Production Technology with techno-economic feasibility analysis.
16. Detailed well design and well engineering with respect to the recovery technique to be deployed.
17. Identifications of specialized services & materials required for the proposed Technology/Well Engineering.
18. Basis of Design Document of Drilling.
19. Basis of Design Document of Well Completion.
20. Project Cost model and estimate.
21. Project Execution Plan.
22. Conclusions and recommendations.

The Consultant shall submit a **draft report [Three (3) hard & Three (3) soft copies each]** including the content as mentioned under sl. No. 1 to 14 and sl. No. 15 to 20 at Jodhpur within Twenty Eight (28) weeks and Thirty Eight (38) weeks respectively from the start of Phase-I, in English language. Text figures to be produced in full colour and map enclosures to be provided in colour. Soft copies in DVD and Hard copies (3 sets each of) of Interpretation output of all mapped horizons in the above mentioned scales. After submission of the **draft report** to the Company, Consultant shall make a technical presentation at Jodhpur within 7 days.

The Consultant shall submit final report [**Three (3) hard & Three (3) soft copies each**] at Jodhpur within ten (10) months from start of Phase-I after incorporating

any changes suggested by the Company. After submission of the **final report**, Consultant shall make a technical presentation at Jodhpur within 7 days.

#### 14.1.1 3D Seismic Data Interpretation Project Backup:

Soft copies (One each on IBM 3592, LTO-3 cartridges and two sets on 500 GB External USB compatible HDD ) consisting of the following :

- Full interpreted data volume in format decided by COMPANY representatives.
- Output of all horizons and faults mapped in format decided by COMPANY representatives.

### **14.2 PHASE – II**

CONSULTANT shall provide the following reports during phase II:

1. Procurement Management Review Report.
2. Standard Operating procedure of all Drilling, Well Completion and Production Testing operation.
3. Bridging Document of all Drilling, Completion and Production Testing services defining the functional links, responsibilities and the control interfaces of the services.

### **14.3 PHASE – III**

#### 14.3.1 After Completion/Production Testing of each well

CONSULTANT shall prepare Drilling and Well Completion report after the completion each well and followed by Production Testing Report. The report shall include the following key points:

1. Well Completion Drawing/Schematic indicating each completion component with OD,ID (where applicable), thread connection, material grade, metallurgy and length.
2. Summary of operations and detailed Production Testing Report.
3. LOTs/FITs (if any conducted) and pressure testing Chart of all casing, tubing & well-heads.
4. Loss Time analysis and proposal for remedial measure thereof.
5. Planned vs actual cost analysis.
6. Performance evaluation and advice for any changes to the proposed production strategy, if necessary.

#### 14.3.2 At the end of Phase - III

The Closeout Phase shall comprise the detailed documentation of operations conducted and the final status of the drilled wells. On completion of operations a full set of well reports, together with a lessons learnt database, will be generated for future reference. The Final Report shall address the following key points:

1. Summary of operations and detailed Production Testing Report.
2. Cost reconciliation report including summary by section, AFE vs actual analysis, variance explanation, cost reduction recommendations.
3. Loss Time analysis.
4. Feasibility Analysis of proposed well Engineering and Production Technology.
5. Lesson Learnt.
6. Recommendation for future field development.

**15. CONSULTANT PERSONNEL:**

CONSULTANT shall provide competent personnel with COMPANY requisite experience to ensure the activities as specified under Broad Scope of Work.

CONSULTANT shall submit a COMPANY's Project specific job organization chart in block diagram form, showing all the positions, functions involved, reporting line and Job Description. In the event of CONSULTANT unable to provide the personnel initially identified in their offer and seek for deployment of alternate personnel having similar experience, shall do so with prior approval from COMPANY.

This chart shall illustrate the organizational hierarchy, the functional links, the control interfaces and names of the proposed personnel occupying 'key' positions.

CONSULTANT shall furnish along with Technical Bid the detailed Bio-data and supporting documents regarding working experience of all Personnel to be deployed. COMPANY reserves the right to decide for engagement of these personnel on the basis of verification of relevant documents prior to engagement.

CONSULTANT shall ensure that all the personnel shall have a full medical examination in accordance with accepted medical standard prior to deployment. In Case of any medical emergency/treatment of CONSULTANT personnel, the CONSULTANT shall be responsible for their treatment i.e. all such treatment cost has to be borne by the CONSULTANT.

CONSULTANT Personnel shall be conversant with relevant safety practices and fluent in English.

### 15.1. CONSULTANT Project Coordinator

The position holder is responsible for the coordination, support, skilled advice/supervision and quality control (QC) review throughout the entire G&G study, design, planning, preparation and execution phase of the Project activities performed by CONSULTANT and/or PARTNER as specified within the Scope of Work.

The responsibilities of Project Coordinator shall include but not limited to the following:

1. The Project Coordinator shall be interface between COMPANY and CONSULTANT. He shall be assisted by appropriate staff to ensure the service intended.
2. Project Coordinator shall prepare an overall project schedule based on basic time line schedule planned by COMPANY.
3. Liaison with COMPANY.
4. Overall planning, scheduling, monitoring and controlling of all work in progress.
5. Preparation of reports, which shall be issued to company on by weekly basis, summarizing the status of the project. The progress report shall highlight the specific delays if any, reasons for such delays, action plan proposed to bring back to the original schedule, major bottlenecks and hold ups. The format of the progress report shall be discussed and mutually agreed between COMPANY and CONSULTANT.

### 15.2. CONSULTANT KEY PERSONNEL EXPERIENCE:

The minimum experience requirements of key personnel are as under:

<b>Position</b>	<b>Required Experience</b>	<b>Min. Required Manpower</b>
Project Coordinator	Minimum 15 years experience in Project Management pertaining to Heavy Oil Exploitation	One
<b>PHASE - I</b>		
G&G Team Leader	Minimum <b>15 years</b> experience in G&G related Studies/Projects.	One
Interpretation Geologist & Geophysicist	Minimum <b>7 years of</b> experience in interpretation of <b>3D seismic</b> data on interactive work station with state of the art interpretation software packages	Geologist - One Geophysicist - One

<b>Position</b>	<b>Required Experience</b>	<b>Min. Required Manpower</b>
Geologist/Sedimentologist/Mineralogist	Minimum <b>7 years of experience</b> in Sedimentological and Mineralogical Studies.	One
Reservoir Engineer & Petrophysicist / Log Analyst.	Minimum <b>5 years of experience</b> in Petrophysical and Log Analysis jobs on interactive work station with state of art interpretation software packages.	Reservoir Engineer - One Petrophysicist / Log Analyst - One
Geo-Modeling Expert	Minimum <b>5 years of experience</b> in Geological Modeling Studies.	One
Techno-Economic /Risk Analyst	Minimum <b>3 years of experience</b> in Techno-Economic Analysis of Hydrocarbon Prospects.	One
Production Technologist	Minimum <b>5 years of experience</b> in Heavy oil Exploitation. Shall have the experience of reservoir simulation and Sensitivity analysis.	One
Drilling/Well Completion Design Expert	Minimum <b>7 years of experience</b> in Drilling and Well Completion Engineering Design pertaining to Heavy oil Exploitation. Shall have the experience of Preparation of Basis of Design Documentation and Project Execution plan.	Drilling – One Well Completion - One
Well Planer	Minimum <b>5 years of experience</b> in Well Architecture.	One
<b>PHASE - II</b>		
Tender Preparation and Scrutiny Team	Minimum <b>5 years of Experience</b> in Preparation of Tender Documentation and Scrutiny of Bid document pertaining to Purchase of Drilling and Well Completion Equipment and Hiring of Services. Drilling and Well Completion Engineer shall have on hand working experience of Drilling and Well Completion.	Drilling – One Well Completion – One Purchase and Contract Analyst - One
<b>PHASE - III</b>		
Drilling Services Expert	Minimum <b>15 years of Experience</b> in drilling of oil & gas wells of which a minimum of 5 years experience should be in deviation/horizontal drilling and experience in at-least 3 nos. of Thermal Completion Well	One
Mud Engineering Expert	Minimum <b>7 years of Experience</b> in formulation of specialized reservoir drill-in-fluids.	One

<b>Position</b>	<b>Required Experience</b>	<b>Min. Required Manpower</b>
Well Completion Expert	Minimum <b>10 years of Experience</b> in well completion of which at least <b>5 years</b> shall be in the heavy oil fields where wells were completed for thermal recovery process like CSS and/or SAGD, etc. Expert shall have the experience of Installation and Commissioning of Well Completion Equipment.	One
Expert for Production Services	Minimum <b>10 years of experience</b> in oil & gas well production Testing with knowledge of surface production techniques, artificial lift methods , operation & maintenance of Production testing and Well Completion Equipment, Well Stimulation (eg. Hydro-fracturing, Acidization, Chemical stimulation etc.). Of the total experience, Expert shall have at least <b>5 years</b> experience in heavy oil recovery techniques through thermal method (CSS/SAGD/In-situ combustion etc or any other proven technology).	One

CONSULTANT personnel mentioned herewith are not intended as being fully exhaustive and as such CONSULTANT shall depute any other personnel required for the compliance of COMPANY work intended.

**15.3 RESPONSIBILITIES OF CONSULTANT personnel: PHASE-III**

CONSULTANT shall provide competent personnel to ensure trouble free operation as appropriate on round the clock basis.

CONSULTANT shall be responsible for all the activities carried out under their respective domain. However, single point responsibility shall be entrusted to the Project Coordinator.

The responsibilities of the CONSULTANT Personnel defined hereunder are of indicative nature only. COMPANY reserves the right to render additional responsibilities pertaining to his expert domain for the interest of the project. Nothing in this CONSULTANT personnel responsibility shall relieve the CONSULTANT from the responsibility of performing, in addition to the company requirements, that CONSULTANT considered necessary to ensure COMPANY work intended.

**1. Drilling Services Expert**

- Supervision and monitoring of all Drilling operation at well site to ensure

proposed well engineering and all well operations are carried out as per approved drilling program and SOP is followed in every respect.

- Responsible to ensure availability of material/well consumables for uninterrupted operation.
- To monitor the activities of the other service providers and ensure quality and safety of operation.
- Responsible for implementation of Bridging Document with all Service Providers.
- Supervision of all casing, liner running-in operations to ensure that they are executed as per approved drilling program and SOP.
- Supervision of running in/installation of pre stressed casing.
- Supervision and monitoring of Cementing operation to ensure quality of job.
- Supervision of Coring operation, if any to ensure safe removal & preservation of cores.
- Responsible for maintaining well integrity.
- Preparation of detailed Daily Progress Report (DPR) during drilling phase in a format approved by COMPANY and report to COMPANY representative on daily basis.
- Trouble shooting of any down-hole problems during drilling operation.

## **2. Mud Engineering Expert**

- To ensure that drilling fluid has been made ready as per the design before commencement of each phase of drilling.
- To monitor constantly the properties of drilling fluid being used in various stages of drilling and suggest readjustment whenever required in order to avoid mud-related down-hole problems.
- To monitor, testing of various standard mud parameters at well site laboratory.
- To take corrective actions, whenever any mud-related down hole problem is encountered to ensure smooth operation.
- Report to COMPANY Representative on Daily Basis.

### **3. Well Completions Expert**

- Ensure Proposed Well Completions Engineering.
- Recommend specific optimal (safe, timely, efficient and cost -effective ) well completion operational resolutions/measures/techniques to operation teams in order to achieve operational excellence with significant cost reduction by appraising, analyzing past/current operational problems, and by being proactive during progress of operational activities.
- Optimization of Well Completion Engineering.
- Maintain/analyze the completion and maintenance database, quality control on the data and logs.
- Trouble shooting of Well Completion Operation.
- Provide technical assessment of wellbore integrity.
- Coordinate with COMPANY representative for all well completion & testing operations.
- Prepare final well on completion report.
- Report to COMPANY Representative on Daily Basis.

### **4. Responsibilities of Expert for Production Services**

- Detailed Production Testing of Wells and analysis.
- Sensitivity analysis for production optimization.
- Trouble shooting of Well Testing operation.
- Execution of Thermal EOR methods with the associated service providers (eg. CSS, SAGD etc.), if necessary.
- Execution of Well Stimulation Jobs (ex. Hydro-fracturing, Acidization, Light Oil Squeezing etc.), if required.
- Preparation of Well Testing report.
- Report to COMPANY Representative on Daily Basis.

### **16. Definition of Application CHARGES:**

CONSULTANT shall quote the rates and submit them in their 'COMMERCIAL TENDER' in the format stipulated under Section-III (Price Format for Commercial Evaluation). The Charges shall be paid on actual Job done basis.

## **16.1 PHASE-I and PHASE-II**

Charges for activities during Phase-I and Phase-II shall be paid on Lump sum basis per activity wise. The charges are intended all inclusive to perform all the activities stipulated under section 12.1 and 12.2 of the document.

## **16.2 PHASE- III**

### 16.2.1 Mobilization of CONSULTANT Personnel:

CONSULTANT personnel to carry out assigned activity shall be mobilized by CONSULTANT on a 'Call out' basis.

COMPANY shall issue a 'Call Off' to CONSULTANT with a Fifteen (15) days notice time.

Transportation to and fro from COMPANY well site to CONSULTANT Base office shall be responsibility of CONSULTANT.

### 16.2.2 DAY RATE Charge:

Charges of CONSULTANT Personnel shall be considered on a day rate basis of 24 hours. For any part thereof, charges shall be computed on pro-rata basis.

DAY RATE shall commence once CONSULTANT Personnel report to COMPANY representative at COMPANY well site. No Charge, whatsoever shall be payable from the date of issue of demobilization notice.

### 16.2.3 DAY RATE during Force Majeure:

All rates quoted by CONSULTANT shall be restricted to 50% of respective charges under above circumstances. This will be considering as Force Majeure Rate.

The force Majeure Rate shall be payable during the first 10 days period of Force. No payment shall accrue to the CONSULTANT beyond the first 10 days period unless mutually agreed upon.

### 16.2.4 Food and Accommodation:

COMPANY shall provide food and accommodation to CONSULTANT Personnel at COMPANY Well site during the Execution phase without any charge to CONSULTANT.

## **17. SAFETY, HEALTH and ENVIRONMENT:**

CONSULTANT shall comply with applicable environmental laws, statutory regulations as applicable to Oil Mines in India.

The CONSULATNT shall provide all its personnel to be deployed in Phase-III, with Personal Protective

Equipment as per international practice, which may include, as appropriate, but without limitation the following:

- Safety Helmet
- 100% cotton or fire proof overalls
- Safety Foot ware
- Safety Goggles
- Other PPE, including gloves, hearing protection etc.

## 18. TECHNICAL TENDER PROPOSAL REQUIRED DOCUMENT

CONSULTANT SHALL SUBMIT THE FOLLOWING DOCUMENTATION ALONG WITH THE TECHNICAL BID:

Section	<b>CONSULTANT Technical Tender Proposal Documentation</b>
A.01	A brief note on Company Business Profile.
A.02	CONSULTANT shall present CONSULTANT Project Execution Plan to achieve COMPANY intended work (Ref. Section under 9. Broad Scope of Work).
A.03	CONSULTANT shall present a detailed chronogram for each activity as mentioned under Broad Scope of Work through a MS-Project Gantt chart.
A.04	CONSULTANT shall present proof of Annual turnover (Ref. Clause no. 1.10 (b) under section - II).
A.05	CONSULTANT shall present the overall and Project specific supporting organization chart and shall submit the 'Curriculum-Vitae' of each appointed individual with supporting document pertaining to work experience.
A.06	Documentary evidence confirming CONSULTANT experience. These documents shall be in the form of duly attested copies of contracts/work orders/completion certificates/payment certificates etc. issued by clients (Ref. Clause no. 1.10 (a) under section - II).
A.07	Copy of Memorandum of Understanding (MOU) /Agreement signed among/between the Partners in the event of technical collaborator/ joint venture partner/consortium (Ref. clause no. 1.6 & 1.7 under section-II).
A.08	CONSULTANT HSE and QA/QC management manuals that describe in details CONSULTANT corporate and localized working practices related to this specific project activities

**ANNEXURE-I**

<b>Sl. No.</b>	<b>Details of Work</b>	<b>Mile- Stone</b>	<b>Elapsed Time</b>
<b>Time Schedule and Milestones for Phase - I</b>			
1.	Data collection, visit to OIL's Office.	<b>1</b>	Within 25 Days from date of issue of LOA
2.	Review/Study of the Data <b>(Details of the available data are given in Annexure-I (a, b, c).</b>	<b>2</b>	4 Weeks from date of issue of LOA
3.	Data Loading, Geological & Geophysical interpretation [Integrated 3D seismic data interpretation incorporating geological, well data, Mapping of Five(5) Horizons, incorporation of available results of Attribute analysis, 3D Seismic Pre-stack Inversion of earlier studies etc as per Work Programme].		12 Weeks from date of issue of LOA
4.	Sedimentological, Mineralogical & Petrophysical analysis.		10 Weeks From date of issue of LOA
5.	Development of Static Geological Model, Reservoir Facies, Estimation of in-place hydrocarbon volumes.		18 Weeks from date of issue of LOA
6.	(a) Perform Simulations of recovery processes for Jodhpur reservoir of Baghewala and other Wells in the study area and Selection of appropriate Production Technology. (b) Preparation of Well Plan & Montage diagrams for the recommended wells for drilling. (c) Techno-economic analysis of the identified prospects. (d) Submission of draft Report & presentation at Jodhpur/Noida and approval.	<b>3</b>	28 Weeks from date of issue of LOA
7.	(a) Preparation of Basis of Design Document of Drilling. (b) Preparation of Basis of Design Document of Well Completion. (c) Preparation of Project Execution Plan.	<b>4</b>	36 Weeks from date of issue of LOA
8.	Identification of services and materials required for Drilling, well completion and Production testing of propose four wells.	<b>5</b>	38 Weeks from date of issue of LOA
9.	Submission of final report and presentation at Jodhpur/Noida and approval.	<b>6</b>	40 weeks from date of issue of LOA

Sl. No.	Details of Work	Mile- Stone	Elapsed Time
<b>Total Time for Phase-I</b> (G&G Study and Well Completion Design)			<b>40 Weeks From date of issue of LOA ( 10 months)</b>
<b>Time Schedule and Milestones for Phase - II</b>			
10.	Prepare functional Specification and Bid documents in consultation with COMPANY for procurement of materials and hiring of services as determined in Phase-I.	<b>1</b>	<b>53 Weeks From Start of Phase II</b>
11.	Participation in pre-tender meetings for various materials / services.		
12.	Technical and Commercial Evaluation of the Bids and approval.		
13.	Preparation of Procurement Management Review Report.	<b>2</b>	
14.	Preparation of Standard Operating Procedures all operation and Bridging document of all services.	<b>3</b>	
15.	Preparation of Time vs. Activity chart	<b>4</b>	
<b>Total Time for Phase-II</b>			<b>53 Weeks From Start of Phase II</b>
<p><b>Elapsed Time stipulated for phase-II specifies the time period from preparation of Bid document (Sl. No. 10) till receive of all material and completion of other activities (Sl. No. 13, 14 and 15) thereafter.</b></p> <p><b>COMPANY and CONSULTANT shall prepare Time Vs. Activity chart for all the activities of Phase-II after completion of Phase-I, considering the total time frame stipulated for Phase-II i.e. 53 Weeks From Start of Phase II. CONSULTANT shall follow the Time line for timely completion of PHASE-II.</b></p>			
<b>Time Schedule and Milestones for Phase - III</b>			
16.	Deployment of experts for Execution Phase as mentioned under section 15 "CONSULTANT PERSONNEL".	<b>1</b>	Within 15 days from the date of issue of 'Call off 'letter.
17.	Prepare and submit Drilling and Completion reports along with other associated reports in consultation with COMPANY representatives, after completion of each well.	<b>2</b>	Within 15 days from the date of Completion of Production Testing of each well.
18.	Performance Evaluation of each well and based on that review/modification of subsequent well designs.	<b>3</b>	Within 15 days from the date of Completion of Production Testing of each well.
19.	Submit comprehensive report at the end of the project that includes financial analysis and performance evaluation of the entire project with detailed break-up.	<b>4</b>	Within 30 days from the date of Completion of Production Testing of last well.

Sl. No.	Details of Work	Mile- Stone	Elapsed Time
<b>Total Time for Phase-III</b>			<b>78 Weeks From Start of Phase III</b>
<p><b>Elapsed Time stipulated for phase-III specifies the time period for Drilling and Production Testing of Four wells and preparation/submission of comprehensive report at the end of the project with financial analysis and performance evaluation of the entire project (Sl. No. 19).</b></p>			

Notes	Published Year	Title	Hard copy	Soft copy
<b>Rajasthan Exploration Geological Notes</b>				
REGN-06	June'1987	Review of seismic data in Bikaner-Nagaur basin and proposal for exploratory drilling.	Yes	No
REGN-25	Augø1989	Review of seismic data and prospect analysis Western part of Bikaner-Nagaur basin.	Yes	No
REGN-29	Octø1989	Review of seismic data from the Kalrewala area of Bikaner- Nagaur basin and prosal for exploratory drilling.	Yes	No
REGN-34	Decø1991	Proposal for approving drilling in Baghewala structure, Bikaner-Nagaur Basin.	Yes	No
REGN-36	Aprø1992	Re-interpretation of seismic data and proposal for exploratory drilling in Baghewala-Tavriwala area	Yes	No
REGN-37	Febø1993	Review of seismic data and prospect analysis of the area west of Baghewala structure and proposal for exploratory drilling.	Yes	No
REGN-38	Aprø1993	Note on review of Tavriwala oil prospect of Bikaner- Nagaur Basin and recommendation of exploratory drilling	Yes	No
REGN-40	Mayø1993	Seismic study of Charanwala-Phulasar area of Bikaner- Nagaur basin and proposal for exploratory drilling.	Yes	No
REGN-42	Febø1994	A study of geology and hydrocarbon distribution of upper carbonate reservoir of Baghewala structure in Bikaner-Nagaur basin	Yes	No
REGN-43	Augø1994	A proposal for exploratory drilling in Siyasar area of Bikaner-Nagaur Basin	Yes	No
REGN-46	Septø1995	Strutural Interpretation of 2D data of Pinodah area and proposal for exploratory drilling.	Yes	No
REGN-57	Novø2009	3D Seismic data Interpretation and Prospect evaluation of Block RJ-ONN-2004/3 (NELP-VI) and Proposal for Exploratory Drilling	Yes	Yes
REGN-58	Julø2010	3D Seismic data Interpretation and Prospect evaluation of Block RJ-ONN-2004/2 (NELP-VI) and Proposal for Exploratory Drilling	Yes	Yes
REGN-59	Julø2011	A Report on Drilling Problems Encountered in the Isolation Section at Well Phulasar-1	Yes	Yes
REGN-60	Octø2011	Review of Baghewala PML area for Exploratory/Extension Drilling and Analysis of M/s GGR's Proposed Locations of NELP-VI Block RJ-ONN-2004/2	Yes	Yes
<b>Rajasthan Development Geological Notes</b>				
RDGN-04	Marø1992	Occurance of heavy oil in Baghewala	Yes	No
RDGN-05	Aprø1992	Initial requirement for formulating the development plan for Baghewala	Yes	No
RDGN-06	Mayø1992	DST analysis of well Baghewala-1.	Yes	No
RDGN-13	Mayø1995	Reservoir Characteristics of Baghewala Heavy Oil field		
RDGN-25	Janø2013	Proposal for Appraisal / Development and xperimental (Pilot) Well for Exploitation of Heavy Oil in Baghewala Heavy Oil Field of Rajasthan Project	Yes	Yes
<b>Rajasthan Geological Operation Notes</b>				
RGON-16	-	Well Data Note of Baghewala 1	Yes	No
RGON-23	Julø1992	Testing of Jodhpur Sandstone In Baghewala-1 with progressive cavity pump.	Yes	No
RGON-26	Aprø1993	Well Data Note of Baghewala 2	Yes	No
RGON-29	Julø1993	Well Data Note of Baghewala 3	Yes	No
RGON-35	Mayø1994	Well Data Note of Baghewala 5	Yes	No
<b>Reports by Consultant/Consultancy Service</b>				
ECL Report	Septø2002	Geological Modelling and Seismic Stratigraphic Analysis of Oil India's Operational Interests, Rajasthan, India	Yes	Yes
Norman Kentø Report	July'2011	Review of the Petroleum Geology Blocks: RJ-ONN-2004/2 & RJ-ONN-2004/3 (NELP-VI), Bikaner-Nagaur Basin, Rajasthan, india	Yes	Yes
Inversion Study	July'2011	A Report on Pre-stack Inversion studies for Baghewala Filed of Rajasthan	Yes	Yes

Well data					
Sl. No	Well No.	Well Logs		Masterlogs	
		Hard Copy	Soft Copy (.las)	Hard Copy	Soft Copy
1	BGW-1	Yes	Yes	Yes	No
2	BGW-2	Yes	Yes	Yes	No
3	BGW-3	Yes	Yes	Yes	No
4	BGW-4	Yes	Yes	Yes	No
5	BGW-5	Yes	Yes	Yes	No
6	BGW-6	Yes	Yes	Yes	No
7	TVW-1	Yes	Yes	Yes	No
8	TVW-2	Yes	Yes	Yes	Yes
9	Punam-1	Yes	Yes	Yes	Yes

Well No.	Sample type	Title	Hard copy	Soft copy
<b>Biostratigraphic Study Reports</b>				
BGW-1	Drill Cuttings	Integrated biostratigraphic report of well Baghewala-1	Yes	No
KLW-2	Drill Cuttings	Integrated biostratigraphic report of well Kalrewala-2	Yes	No
<b>XRD Reports</b>				
BGW-1	Conv. Core	X-ray diffraction studies of core samples from well Baghewala-1	Yes	No
BGW-1	Conv. Core	X-ray diffraction studies of two core samples from Baghewala-1	Yes	No
<b>Petrophysical Study Reports</b>				
BGW-1	Conv. Core	Petrophysical studies on core of well Baghewala-1	Yes	No
BGW-2 & TVW-1	Conv. Core	Petrophysical, saturation and calcimetry study on core samples of well Baghewala -2 and Tavriwala-1.	Yes	No
BGW-3	Conv. Core	Petrophysical, XRD & SEM studies of cores from Baghewala-3	Yes	No
BGW-4	Conv. Core	Petrophysical studies on core sample from Baghewala-4	Yes	No
BGW-1	Crude / Cuttings / Exposures	A report on Baghewala - by M/s. Chevron Overseas Inc.	Yes	No

<b>Conventional Core Details</b>		
<b>Well No.</b>	<b>Attempted Core Depths (m)</b>	<b>Formation</b>
BGW-1	942-951 / 970-979 / 1112 - 1121.54 / 1394-1395.4	Jodhpur Sandstone & Basement
BGW-2	474-490.15 / 513-524 / 545-555.18 / 615-624	Up. Carbonate
BGW-3	576-594 / 613.5-622.5 / 1226.24 - 1233.53 / 1235 - 1244 / 1255.5 - 1264.5 / 1264.5 - 1269.5	Up. Carbonate & Jodhpur Sandstone
BGW-4	542.45-548.42/1073.5-1074.3/1074.35-1083.35	Up. Carbonate & Jodhpur Sandstone
BGW-5	1174.19-1185 / 1185-1195.7 / 1195.7 - 1213.32	Jodhpur Sandstone
BGW-6		
TVW-1	502-511.65 / 530.5-539 / 556.6-567 / 1037 - 1043	Up. Carbonate & Bilara
TVW-2	1141 - 1150	Jodhpur Sandstone
Punam-1	1111-1120 (Recovered 1.23 m) / 1291-1297	HEG & Basement

Figure-1

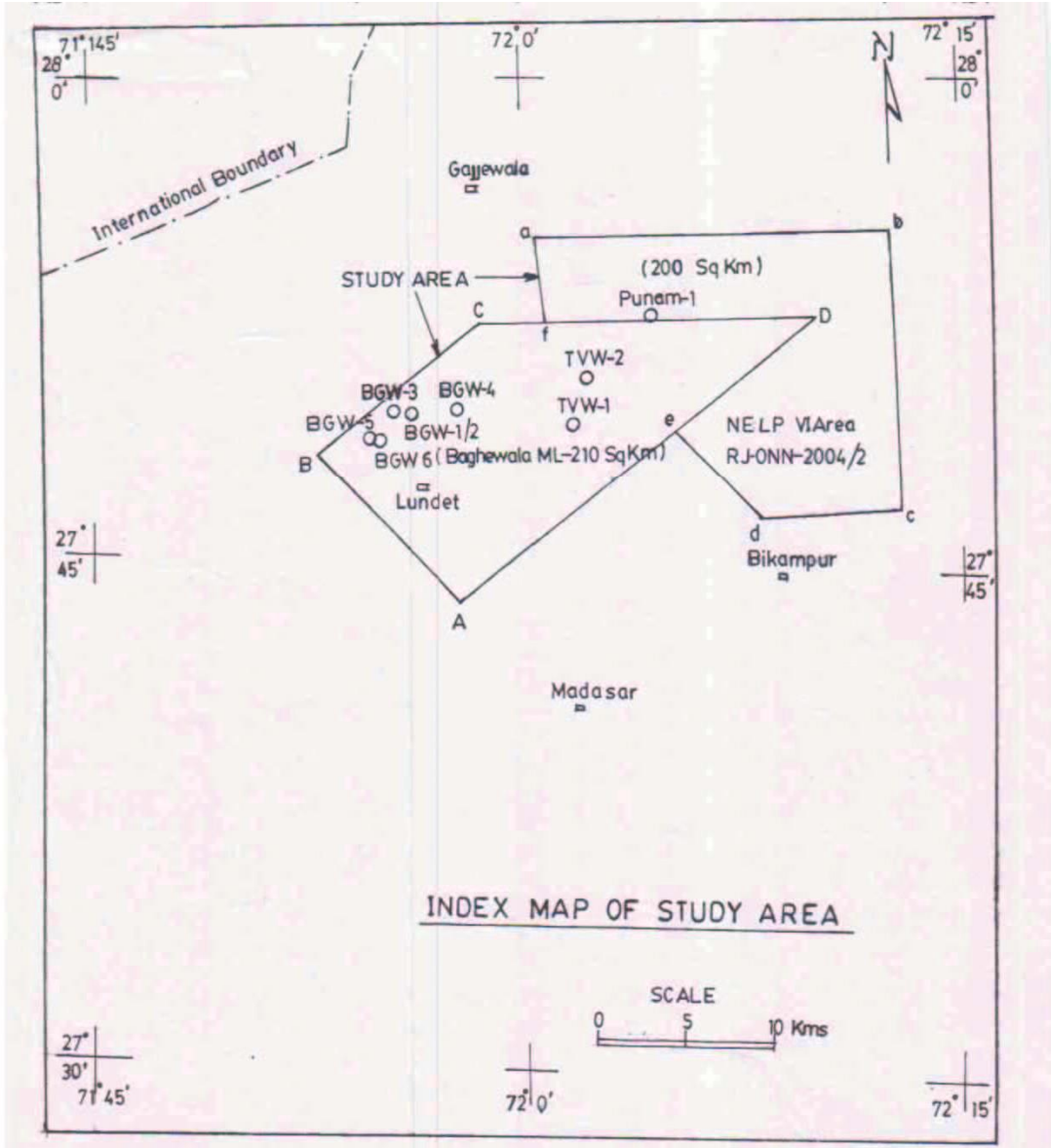


Figure -2

**3D ACQUISITION PARAMETERS**

**BLOCK: RJ-ONN-2004/2 (200 Sq Km)**

1	Fold	30 (5 x 6)
2	Group Interval	50 m
3	VP Interval	100 m
4	Bin Size (Inline x Cross line)	25 m x 50 m
5	Source	2 x 2 Vibrators (flip flop)
6	No. of sweeps	3
7	Sweep length	10
8	Move up between Sweeps	No
9	Number of Geophones per station	24 (2 Strings parallel, 3m apart)
10	Array of Geophones	45.83 (Geophone Interval 4.17m)
11	Correlated record length	3 seconds
12	Sample Interval	2 ms.
13	Receiver line Interval	200 m
14	Live receiver lines	12
15	Live channels per receiver line	60
16	Total No. of live channels per VP	720
17	Source line interval	300m
18	Symmetrical Split Spread	Yes
19	Roll	One line
20	Patch	Symmetrical patch Shooting
21	Orientation of the Block	The tentative azimuth of the Trace & Source line is 323.5° & 53° from North respectively. Trace and Source line are orthogonal to each other.

**APPENDIX -1 (contd.)**

**BLOCK: BAGHEWALA (210 Sq Km)**

1	Fold	30 (5 x 6)
2	Group Interval	50 m
3	VP Interval	50 m
4	Bin Size (Inline x Cross line)	25 m x 25 m
5	Source	2 x 2 Vibrators (flip flop)
6	No. of sweeps	3
7	Sweep length	10
8	Move up between Sweeps	No
9	Number of Geophones per station	24 (2 Strings parallel, 3m apart)
10	Array of Geophones	45.83
11	Correlated record length	3 seconds
12	Sample Interval	2 ms.
13	Receiver line Interval	200 m
14	Live receiver lines	12
15	Live channels per receiver line	60
16	Total No. of live channels per VP	720
17	Source line interval	300m
18	Symmetrical Split Spread	Yes
19	Roll	One line
20	Patch	Symmetrical patch Shooting
21	Orientation of the Block	The tentative azimuth of the Trace & Source line is 323.5° & 53° from North respectively. Trace and Source line are orthogonal to each other.

\*\*\*\*\*

(END OF SECTION - IV)

END OF PART-3

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

WHEREAS, (Name of Bidder) ..... (hereinafter called “the bidder”) has submitted his bid dated (Date) .....for the provision of certain oilfield services (hereinafter called “the bid”). KNOW ALL MEN by these presents that we (Name of Bank) ..... of (Name of country) ..... having our registered office at ..... (hereinafter called “the Bank”) are bound unto Oil India Limited (herein after called “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 ..... , 2014 .

THE CONDITIONS of this obligation are:

1. If the bidder withdraws his bid during the period of bid validity specified in the Form of Bid;

Or

2. If the bidder, having been notified of the acceptance of his bid by the Company during the period of bid validity:
  - fails or refuses to execute the Form of Agreement in accordance with the Instructions to bidders, if required; or
  - 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, 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.

DATE: ..... SIGNATURE OF THE BANK:  
.....

WITNESS: ..... SEAL:  
.....

(Signature, Name and Address)

- 
- The bidder should insert the amount of the guarantee in words and figures denominated in the currency of the Company’s country or an equivalent amount in a freely convertible currency.
  - The Date of Expiry of Bank Guarantee should be 180 days after the closing date for submission of bids as stated in the tender document.

PART- 4

**PROFORMA -B**  
**FORM OF PERFORMANCE BANK GUARANTEE (UNCONDITIONAL)\***

To: (Name of Company .....)  
(Address of Company .....)  
WHEREAS (Name and address of Contractor) ..... (hereinafter called "Contractor") had undertaken, in pursuance of Contract No..... dated ..... 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 by a recognised bank for the sum specified therein as security for compliance with his 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 the Guarantor and responsible to you, on behalf of the Contractor, up to a total of (Amount of Guarantee)\*\* ..... (in words) ..... such sum being payable in the type 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 the 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 modifications of the terms of the Contract or of 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 release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee is valid until the date (.....)\*\* Six months after Contract Completion.

SIGNATURE & SEAL OF THE CONTRACTOR :.....  
Name of Bank :.....  
Address :.....  
Date :.....

\* Bidders are NOT required to complete this form while submitting the bid.

\*\*An amount is to be inserted by the guarantor, representing the percentage of the Contract price specified in the Contract, and denominated either in the currency of the Contract or in a freely convertible currency acceptable to the Company as per para 31.0 under Section-II, Part-1.

PART-4

**PROFORMA -C**

**SAMPLE FORM OF AGREEMENT**

THIS AGREEMENT is made on the ..... day of 2014... between (name of Company) ..... of (Mailing address of Company) ....., hereinafter called “the Company”, of the one part and (Name of Contractor) ..... (hereinafter called “the Contractor”) of the other part.

WHEREAS the Company is desirous that certain works should be executed viz. (brief description of works) ..... and has by Letter of Acceptance (date of Letter of Acceptance) ..... accepted a bid by the Contractor for the execution, completion and maintenance of such works, now THIS AGREEMENT WITNESS as follows:

1. In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this agreement, viz:  
This Form of agreement,  
The Letter of Acceptance,  
The Contractor’s Bid and enclosures,  
The Technical Specifications,  
The Priced bill of quantities,  
The Drawings,  
The Schedule of Supplementary Information,  
The special Conditions of Contract and  
The General conditions of Contract
3. The aforesaid documents shall be taken as complementary and mutually explanatory of one another, but in the case of ambiguities or discrepancies they shall take precedence in the order set out above.
4. In consideration of the payment to be made by the Company to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Company to execute, complete and maintain the works in conformity in all respects with the provisions of the Contract.
5. The Company hereby covenants to pay the Contractor in consideration of the execution, completion and maintenance of the works the Contract price at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused their respective common seals to be hereunto affixed (or have hereunto set their respective hands and seals) the day and year first written above.

SIGNED, SEALED AND DELIVERED

By the said  
Name \_\_\_\_\_

By the said  
Name \_\_\_\_\_

On behalf of the Contractor  
in the presence of:

On behalf of the Contractor  
in the presence of:

Name \_\_\_\_\_  
Address \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

\* Bidders are NOT required to complete this form.

