



OIL INDIA LIMITED
(A Govt. of India Enterprise)
KG Basin Project
D.No.11-4-7; 3RD FLOOR,
NOOKALAMMA TEMPLE STREET
RAMARAOPET, KAKINADA-533004

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Tender No. / IFB No. CEG4091L15

Tender No. /IFB No. CEG4091L15 for ‘Hiring of Test Packer, Bridge Plugs & Bridge Plug services with supply of equipment and consumables for conducting well tests on 03 (Three) HPHT exploratory wells in KG Basin (two wells with 7” completion with a provision of completion of the 3rd well either with 7” or with monobore)’ has been addressed to the following parties:

- i) M/s BJ Services Company Middle East Ltd / Baker Hughes**
- ii) M/s Schlumberger Asia Services Ltd.**
- iii) M/s Weatherford Oil Tools ME Ltd**
- iv) M/s Halliburton Offshore Services Inc.**
- v) M/s Expro Gulf Limited**

The interested Parties, other than above short listed Parties who meet the ‘Qualifying criteria’ as indicated in the Tender may also apply for issue of Tender documents. Such application must reach Project office at Kakinada on or before **22.07.2014. The application must be complete in all respects and the same should accompany all the requisite documents as indicated in Bid Evaluation Criteria (BEC)/Bid Rejection Criteria (BRC), failing which the application will be considered as rejected.**

FORWARDING LETTER

M/s. _____

Sub: Tender No. CEG4091L15 for Hiring of Test Packer, Bridge Plugs & Bridge Plug services with supply of equipment and consumables for conducting well tests on 03 (Three) HPHT exploratory wells in KG Basin (two wells with 7” completion with a provision of completion of the 3rd well either with 7” or with monobore).

Dear Sirs,

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 with its Headquarters at Duliajan, Assam. A Consortium of OIL INDIA LIMITED (OIL) and Geo-Global Resources (Barbados) Inc. where OIL is the operator, plan to drill 3 (three) exploratory wells in the on-land exploration areas/blocks, KG-ONN 2004/1.

2.0 **In connection with its operations, OIL invites International Competitive Bids (ICB) from shortlisted Contractors through OIL’s e-procurement site for providing above services. One complete set of Bid Document covering OIL’s IFB for hiring of above services is uploaded in OIL’s e-procurement portal and Govt. portal. You are invited to submit your most competitive bid on or before the scheduled bid closing date and time through OIL’s e-procurement portal. For your ready reference, few salient points of the IFB (covered in detail in the Bid Document) are highlighted below:**

(i)	Tender No.	CEG4091L15
(ii)	Type of Bid	Single Stage-Two Bid
(iii)	Bid Closing Date & Time	As per online tender
(iv)	Technical Bid Opening Date & Time	As per online tender
(v)	Commercial Bid Opening Date & Time	Will be intimated to the eligible bidder(s) nearer the time
(vi)	Bid Opening Place	Office of General Manager (KGB&BEP), Oil India Limited D.NO.11-4-7; 3rd Floor Nookamma Temple Street Ramaraopeta, Kakinada-533004 Andhra Pradesh, India
(vii)	Bid Validity	180 days from date of closing of techno - commercial bid

(viii)	Bid Security Amount	INR 37.00 lakhs OR US\$ 61,700.00
(ix)	Bid Security Validity	210 days from date of closing of techno commercial bid
(x)	Mobilization Time	As indicated in BEC/BRC
(xi)	Amount of Performance Guarantee	7.5% of estimated Contract value
(xii)	Validity of Performance Security	6 (six) months beyond the date of completion of Contract
(xiii)	Duration of the Contract	1(one) year with a provision of extension by another year at the same rate, terms and conditions at the discretion of OIL.
(xiv)	Quantum of Liquidated Damage for Default in Timely Mobilization	@1/2 % of estimated Contract value (including mobilization charge) for delay per week or part thereof subject to maximum of 7.5%
(xv)	Bids to be addressed to	General Manager (KGB&BEP), Oil India Limited D.NO.11-4-7;3rd Floor Nookalamma Temple Street Ramaraopeta, Kakinada-533004 Andhra Pradesh, India

3.0 Integrity Pact :

The Integrity Pact must be uploaded in OIL's E-procurement portal along with the Techno-commercial Bid digitally signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. Any Bid not accompanied by the Integrity Pact digitally signed by the bidder shall be rejected straightway.

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

To participate in OIL's E-procurement tender, bidders should have a legally valid Digital Signature Certificate as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (<http://www.cca.gov.in>). The digital signature should be of Class 3 digital certificate for the designated individual with organization name. Bidders must have a valid User Id to access OIL e-Procurement site. Bidders, who do not have a user id, can click on **Guest** login button to view the available open tenders. The detailed guidelines are available in OIL's e-procurement site. For any clarification in this regard, bidders may contact OIL.

5.0 IMPORTANT NOTES:

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

- i) The bid along with all supporting documents must be submitted through OIL's E-procurement site only except the following documents which shall

be submitted manually by the bidder in sealed envelope superscribed with OIL's IFB No. and Bid Closing date to General Manager, KG Basin Project, Oil India Limited, D.No.11-4-7; 3rd Floor, Nookalamma Temple Street, Ramaraopeta, Kakinada-533004:

- a) Original Bid Security
- b) Any other document required to be submitted in original as per tender requirement.
- c) Printed catalogue and Literature, if called for in the tender.
- d) Power of Attorney for signing the bid.

The above documents including the Original bid security must be received at OIL's office of the General Manager on or before the bid opening date and time. A scanned copy of the Bid Security shall also be uploaded by the bidder along with their Techno-commercial Bid in OIL's E-procurement site.

The bidders are also requested to provide one hard copy and one CD covering only the technical offer.

- ii) Bid should be submitted online in OIL's E-procurement site up to 11.00 AM (IST) (Server Time) on the date as mentioned and will be opened on the same day at 3.00 PM (IST) at the office of the General Manager (KGB & BEP) in presence of the authorized representatives of the bidders.
- iii) The tender is invited under SINGLE STAGE-TWO BID SYSTEM. The bidders shall have to submit both the "TECHNO-COMMERCIAL" and "PRICED" bids through electronic form in the OIL's e-Procurement portal within the Bid Closing Date and Time stipulated in the e-Tender. The Techno-commercial Bid should be as per Scope of Work & Technical Specifications along with all technical related documents related to the tender and the same is to be uploaded in the **Technical RFX Response** Page. Please note that no price details should be uploaded in **Technical RFX Response** Page. Details of prices as per Bid format/priced bid can be uploaded as Attachment in the attachment link under '**Note and Attachments**'.

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

Thanking you,

Yours faithfully,
OIL INDIA LIMITED

(G C Dev Choudhury)
Head-Materials (KGB&BEP)
For General Manager (KGB&BEP)

PART – 1

INSTRUCTIONS TO BIDDERS

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

A. BID DOCUMENTS

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

(a) An “Invitation for Bids” highlighting the following points:

(i) Company’s Tender No.

(ii) Bid closing date and time

(ii) Bid opening date, time and place

(iii) Bid submission place

(iv) Bid opening place

(vi) The amount of Bid Security

(vii) The amount of Performance Guarantee

(viii) Quantum of liquidated damages for default in timely mobilizations

(b) Instructions to Bidders, (Part-1)

(c) Bid Evaluation Criteria/Bid Rejection Criteria, (Part-2)

(d) General Conditions of Contract, (Section-I)

(e) Terms of Reference/Technical Specification, (Section-II)

(f) Schedule of Rates, (Section-III)

(g) Integrity Pact Proforma, (Annexure-I)

(h) Estimated CIF value of items at the time of import, (Proforma-A)

(i) Price Schedule Format, (Proforma-B)

(j) Bid Form, (Proforma-C)

(k) Certificate of Compliance with respect to BRC, (Proforma-D)

(l) Statement of Non-Compliance (except BRC), (Proforma-E)

- (m) Bid Security Form, (Proforma-F)
- (n) Performance Security Form, (Proforma-G)
- (o) Agreement Form, (Proforma-H)
- (p) Proforma of Letter of Authority, (Proforma-I)
- (q) Authorization for Attending Bid Opening, (Proforma-J)

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

3.0 TRANSFERABILITY OF BID DOCUMENTS:

- 3.1 Bid Documents are non-transferable.
- 3.2 Unsolicited offers will not be considered and will be rejected straightway.

4.0 AMENDMENT OF BID DOCUMENTS:

- 4.1 At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Documents through issuance of an Addendum.
- 4.2 The Addendum will be uploaded in OIL's E-Portal in the 'Technical RFX' page under the tab "Amendments to Tender Documents". Bidders shall also be intimated about the amendments through post/courier or by Fax or e-mail to all prospective Bidders to whom Company has issued the Bid Documents. The Company may, at its discretion, extend the deadline for bid submission, if the Bidders are expected to require additional time in which to take the Addendum into account in preparation of their bid or for any other reason. Bidders shall also check OIL's E-portal in the main page as well as the 'Technical RFX' page time to time for any amendments to the bid documents before submission of their bids.

B. PREPARATION OF BIDS

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

5.1 BIDDER'S/AGENT'S NAME & ADDRESS: Bidders should indicate in their bids their detailed postal address including the Fax/Telephone / Cell Phone Nos. and E-mail address. Similar information should also be provided in respect of their authorized Agents in India, if any.

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

(i) TECHNO-COMMERCIAL BID shall comprise of following:

i	Complete technical details of the services and equipment specifications with catalogue, etc.
ii	Documentary evidence established in accordance with clause 10.0
iii	Statement of compliance with respect to BRC as per Proforma-D
iv	Statement of Non-compliance (except BRC) as per Proforma-E showing the list of deviations taken by the bidder except for the conditions under BRC
v	Bid Security (scanned) in accordance with clause 11.0 hereunder, Hard copy should reach us on or before Techno-Commercial Bid Closing Date and time.
vi	Proforma-A: List of items to be imported without the CIF values
vii	Copy of Priced bid without indicating prices (Proforma-B)
viii	Integrity Pact digitally signed by OIL's competent personnel as Annexure-I attached to the bid document to be digitally signed by the Bidder.
ix	Scanned copy of Chartered Accountant certificate (for granting of Price Preference) indicating various sub-contracting details in percentage terms and blanking out the absolute value , if applicable.

**(ii) PRICED BID shall comprise of the following:
Bidder shall quote their prices in the following Proforma and shall upload the same in the OIL's E-Portal:**

i	Price Schedule Format, (Proforma-B)
ii	Bid Form as per Proforma-C
iii	Proforma-A showing the items to be imported with the CIF values. The Priced Bid shall contain the prices along with the currency quoted and any other commercial information pertaining to the service offered.
iv	Scanned copy of Original Chartered Accountant certificate (for granting of Price Preference) indicating various sub-contracting details in percentage terms as well as in absolute value, if applicable. Original should reach OIL's office at Kakinada on or before Techno-Commercial Bid Closing Date and time.

7.0 BID FORM: The bidder shall complete the Bid Form and the appropriate Price Schedule furnished in their Bid.

8.0 BID PRICE:

8.1 Unit prices must be quoted by the bidders on-line in figures only.

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

8.3 All duties (except customs duty which will be borne by the Company) and taxes (excluding service tax) including Corporate Income Tax, Personal Tax, etc. and other Cess/levies payable by the successful bidder under the Contract for

which this Bid Document is being issued, shall be included in the rates, prices and total Bid Price submitted by the bidder, and the evaluation and comparison of bids shall be made accordingly. For example, personal taxes and/or any corporate taxes arising out of the profits on the contract as per rules of the country shall be borne by the bidder.

9.0 CURRENCIES OF BID AND PAYMENT:

9.1 A bidder expecting to incur its expenditures in the performance of the Contract in more than one currency, and wishing to be paid accordingly, shall so indicate in the bid. In such a case, the bid shall be expressed in different currencies and the respective amounts in each currency shall together make up the total price.

9.2 Indian bidders too can submit their bids in any currency (including Indian Rupees) and receive payment in such currencies on par with foreign bidders. However, currency once quoted will not be allowed to be changed.

10.0 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS: These are listed in **Bid Evaluation Criteria/Bid Rejection Criteria (Part – 2)**.

11.0 BID SECURITY:

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

11.2 All the bids must be accompanied by Bid Security for the amount as mentioned in the Forwarding Letter or an equivalent amount in other freely convertible currency. The Bid Security in original should be submitted in a separate envelope as prescribed in Clause 15.3 below and shall be in any one of the following forms:

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

i) Any Nationalized / scheduled Bank in India or

ii) Any Indian branch of a Foreign Bank or

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

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

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

(b) A Cashier's cheque or Demand Draft drawn on 'Oil India Limited' valid for 180 days from the date of issue and payable at Kakinada, Andhra Pradesh.

- 11.3 Any bid not secured in accordance with sub-clause 11.2 above shall be rejected by the Company as non-responsive.
- 11.4 The bidders shall extend the validity of the Bid Security suitably, if and when specifically advised by Company, at the bidder's cost.
- 11.5 Unsuccessful Bidder's Bid Security will be discharged and/or returned within 30 days after finalization of TENDER.
- 11.6 Successful Bidder's Bid Security will be discharged and/or returned upon Bidder's furnishing the Performance Security and signing of the contract. Successful bidder will however, ensure validity of the Bid Security till such time the Performance Security in conformity with Clause 29.0 below is furnished.
- 11.7 Bid Security shall not accrue any interest during its period of validity or extended validity.
- 11.8 The Bid Security may be forfeited:
- i) If any bidder withdraws their Bid during the period of bid validity; and/ **or**
 - ii) If any bidder alters their Bid during the period of bid validity or if the bidder increases the price during the period of bid validity; and/ **or**
 - iii) If the bidders does not accept the LOA issued by Company within the validity of the bid; and/ **or**
 - iv) If the bid is accepted by Company, and work is awarded but the successful bidder does not furnish the Performance Security; and/ **or**
 - v) If the successful bidder fails to sign the Contract within reasonable time & within the period of bid validity.
- 11.9 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.
- 11.10 The scanned copy of the Original Bid Security in the form of Bank Guarantee/ LC/Cashier Cheque/Bank Draft must be uploaded by bidder along with the Techno-Commercial Bid in the C-folder of OIL's E-portal. The Original Bid Security shall be submitted by the bidder to the office of General Manager, KG Basin Project, Oil India Limited, D.No.11-4-7; 3rd Floor, Nookamma Temple Street, Ramaraopeta, Kakinada-533004 in a sealed envelope which must reach the above address before the Techno-commercial Bid Opening date and Time failing which the bid shall be rejected.

12.0 EXEMPTION FROM SUBMISSION OF BID SECURITY:

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

13.0 PERIOD OF VALIDITY OF BIDS:

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

14.0 FORMAT AND SIGNING OF BID:

- 14.1 Bids are to be submitted online through OIL's E-procurement portal with digital signature. The bid and all attached documents should be digitally signed by the bidder using "Class 3" digital certificates [e-commerce application (Certificate with personal verification and Organization Name)] as per Indian IT Act 2000 obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India(RCAI), Controller of Certifying Authorities(CCA) of India before bid is uploaded.

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

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

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

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

- 14.2 Any person signing the Bid or any other document in respect of this Bid Document or other relevant documents on behalf of the Bidder without disclosing his authority to do so shall be deemed to have the authority to bind the Bidder. If it is discovered at any time that the person so signing has no authority to do so, the Company may, without prejudice to any other right or remedy, cancel his Bid or Contract and hold the Bidder liable to the Company for all costs and damages arising from the cancellation of the Bid or Contract including any loss which the Company may sustain on account thereof. In addition to the above, Bid Security/ Performance Security (as the case may be) will be forfeited and the party shall be debarred for a period of 2(two) years.
- 14.3 Any Bid, which is incomplete, ambiguous, or not in compliance with the Bidding process will be rejected.

15.0 SUBMISSION OF BIDS

15.1 The tender is processed under **Single stage – Two bid system**. Bidder shall submit the Techno-commercial bid and Priced bid along with all the Annexures and Proforma (wherever applicable) and copies of documents in electronic form through OIL's e-procurement portal within the Bid Closing Date & Time stipulated in the e-tender. The Technical Bid is to be submitted as per Terms of Reference / Technical Specifications of the bid documents and Priced Bid as per the Price Schedule. The Techno-commercial Bid should be uploaded in the "Technical RFX Response" page only. Prices to be quoted as per Proforma-B should be uploaded as attachment in the attachment link under "Notes and Attachments" Tab under General Data. No price should be given in the "Technical RFX Response" page, otherwise bid shall be rejected. The price bid should not be submitted in physical form which shall not be considered. However, the following documents should necessarily be submitted in physical form in sealed envelope superscribing the "IFB No., Brief Description of services and Bid Closing / Opening date & Time along with the bidder's name and should be addressed to General Manager, KG Basin Project, Oil India Limited, D.No.11-4-7; 3rd Floor, Nookamma Temple Street, Ramaraopeta, Kakinada-533004 as indicated in the IFB :

- (i) The Original Bid Security along with 2(two) copies.
- (ii) Power of Attorney for signing of the bid digitally
- (iii) Any other document required to be submitted in original as per bid document requirement.
- (iv) Printed catalogue and literature if called for in the bid document.
- (v) Original Chartered Accountant certificate (for granting of Price Preference) indicating various sub-contracting details in percentage terms as well as in absolute value in a **separate sealed envelope**, if applicable.

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

15.2 All the conditions of the Contract to be made with the successful bidder are given in various Sections of the Bid Document. Bidders are requested to state their non-compliance to each clause as per Proforma-E of the bid document and the same should be uploaded along with the Techno-commercial Bid.

15.3 Timely delivery of the documents in physical form as stated in Para 15.1 above is the responsibility of the bidder. Bidders should send the same through Registered Post or by Courier Services or by hand delivery to the Officer in Charge of the particular tender before the Bid Closing Date and Time failing which bid shall be rejected. Company shall not be responsible for any postal delay / transit loss.

15.4 E-mail/Fax/Telex/Telegraphic / Telephonic offers will not be accepted.

16.0 INDIAN AGENTS: Foreign Bidders are requested to clearly indicate in their bid whether they have any agent in India. If so, the bidders should furnish the name and address of their agents and state clearly whether these agents are authorized to receive any commission. The rate of the commission included in the rates quoted by bidder should be indicated which would be payable to Agent in non-convertible Indian currency according to Import Trade Regulation of India. Unless otherwise specified, it will be assumed that an agency commission is not involved in the particular Bid. Further, Bidders are requested to submit their bid directly and not through their agents in India. Offers made by Indian agents on behalf of their foreign principals will be rejected. Moreover, one Indian Agent cannot represent more than one foreign bidder against the IFB. In case an Indian agent represents more than one foreign bidder against the IFB, then Bids of such foreign bidders shall be rejected against the IFB.

17.0 DEADLINE FOR SUBMISSION OF BIDS:

17.1 Bids should be submitted on-line as per the online tender submission deadline. Bidders will not be permitted by System to make any changes in their bid / quote after the bid has been submitted by the bidder. Bidder may however request the Tender Dealing Officer for returning their bids / quote before the original bid closing date and time for resubmission. But no such request would be entertained once the submission deadline has reached or bids are opened.

17.2 No bid can be submitted after the submission dead line is reached. The system time displayed on the e-procurement web page shall decide the submission dead line.

17.3 The documents in physical form as stated in Para 15.1 must be received by Company at the address specified in the "Forwarding Letter" on or before the Bid Opening date & Time mentioned in the "Forwarding Letter". Timely delivery of the same at the address mentioned in the Forwarding Letter is the responsibility of the Bidders.

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

19.0 MODIFICATION AND WITHDRAWAL OF BIDS:

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

19.2 The Bidder's modification or withdrawal notice shall be sent by fax / E-mail but followed by a signed confirmation copy, postmarked not later than the deadline for submission of Bids.

19.3 No Bid can be modified or withdrawn subsequent to the deadline for submission of Bids.

- 19.4 Once a withdrawal letter is received from any bidder, the offer will be treated as withdrawn and no further claim / correspondences will be entertained in this regard.
- 19.5 No Bid may be withdrawn in the interval between the deadline for submission of Bids and the expiry of the period of Bid Validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval shall result in the Bidder's forfeiture of its Bid Security and bidder shall also be debarred from participation in future tenders of OIL.

20.0 EXTENSION OF BID SUBMISSION DATE:

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

21.0 BID OPENING AND EVALUATION:

- 21.1 Company will open the Bids, including submission made pursuant to clause 19.0, in the presence of Bidder's representatives who choose to attend at the date, time and place mentioned in the Forwarding Letter. However, an authorization letter (as per **Proforma-J**) from the Bidder must be produced by the Bidder's representative at the time of Bid Opening. Unless this Letter is presented, the representative will not be allowed to attend the Bid Opening. The Bidder's representatives who are allowed to attend the Bid Opening shall sign a register evidencing their attendance. Only one representative against each Bid will be allowed to attend. In Techno-commercial bid opening, only 'Technical RFx Response' will be opened. Bidders therefore should ensure that Techno-commercial bid is uploaded in the "Technical RFx Response" Page only.
- 21.2 In case of any unscheduled holiday or Bandh on the Bid Opening Date, the Bids will be opened on the next full working day. Accordingly, Bid Closing Date / time will get extended up to the next working day and time.
- 21.3 Bid for which an acceptable notice of withdrawal has been received pursuant to clause 19.0 shall not be opened. Company will examine bids to determine whether they are complete, whether requisite Bid Securities have been furnished, whether documents have been properly signed and whether the bids are generally in order.
- 21.4 At bid opening, Company will announce the Bidder's names, written notifications of bid modifications or withdrawal, if any, the presence of requisite Bid Security and such other details as the Company may consider appropriate.
- 21.5 Company shall prepare, for its own records, minutes of bid opening including the information disclosed to those present in accordance with the sub-clause 21.4.

- 21.6 Normally no clarifications shall be sought from the Bidders. However, for assisting in the evaluation of the bids especially on the issues where the Bidder confirms compliance in the evaluation and contradiction exists on the same issues due to lack of required supporting documents in the Bid (i.e. document is deficient or missing), or due to some statement at other place of the Bid (i.e. reconfirmation of confirmation) or vice versa, clarifications may be sought by OIL. In all the above situations, the Bidder will not be allowed to change the basic structure of the Bid already submitted by them and no change in the price or substance of the Bid shall be sought, offered or permitted.
- 21.7 Prior to the detailed evaluation, Company will determine the substantial responsiveness of each bid to the requirement of the Bid Documents. For purpose of these paragraphs, a substantially responsive bid is one, which conforms to all the terms and conditions of the Bid Document without material deviations or reservation. A material deviation or reservation is one which affects in any way substantial way the scope, quality, or performance of work, or which limits in any substantial way, in-consistent way with the Bid Documents, the Company's right or the bidder's obligations under the contract, and the rectification of which deviation or reservation would affect unfairly the competitive position of other bidders presenting substantial responsive bids. The Company's determination of Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.
- 21.8 A Bid determined as not substantially responsive will be rejected by the Company and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- 21.9 The Company may waive minor informality or nonconformity or irregularity in a Bid, which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- 21.10 The Company shall perform Technical evaluation of the responsive bid(s) on the basis of **Section II 'Terms of Reference and Technical Specifications'** and **Part-2 'Bid Rejection Criteria/Bid Evaluation Criteria'**. Pursuant to Clause 21.0, the Company shall determine the successful Techno-commercial bid(s) for Price Bid opening.

22.0 OPENING OF PRICED BIDS:

- 22.1 The Company will open the Priced Bids of the technically qualified Bidders on a specific date in presence of representatives of the interested qualified bidders. Technically qualified Bidders will be intimated about the Priced Bid Opening Date & Time in advance. In case of any unscheduled holiday or Bandh on the Priced Bid Opening Date, the Bids will be opened on the next working day.
- 22.2 The Company will examine the Price quoted by Bidders to determine whether they are complete, any computational errors have been made, the documents have been properly signed, and the bids are generally in order.

- 23.0 CONVERSION TO SINGLE CURRENCY:** While evaluating the bids, the closing rate of exchange (CC rate) declared by State Bank of India on the day

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

24.0 EVALUATION AND COMPARISON OF BIDS: The Company will evaluate and compare the bids as per **BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC), Part-2** of the Bid Documents.

24.1 **DISCOUNTS / REBATES:** Unconditional discounts/rebates, if any, given in the bid or along with the bid will be considered for evaluation.

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

24.3 **LOADING OF FOREIGN EXCHANGE:** There would be no loading of foreign exchange for deciding the inter-se-ranking of domestic bidders.

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

24.5 **REPATRIATION OF RUPEE COST:** In respect of foreign parties rupee payments made on the basis of the accepted rupee component of their bid, would not be repatriable by them. A condition to this effect would be incorporated by the Company in the contract.

25.0 CONTACTING THE COMPANY:

25.1 Except as otherwise provided in Clause 21.0 above, no Bidder shall contact Company on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded except as required by Company vide sub-clause 21.6.

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

C. AWARD OF CONTRACT

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

27.0 COMPANY'S RIGHT TO ACCEPT OR REJECT ANY BID: Company reserve the right to accept or reject any or all bids and to annul the bidding process and reject all bids, at any time prior to award of contract, without thereby

incurring any liability to the affected bidder, or bidders or any obligation to inform the affected bidder of the grounds for Company's action.

28.0 NOTIFICATION OF AWARD:

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

29.0 PERFORMANCE SECURITY:

29.1 Within 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 specified in the Forwarding Letter and Letter of Award (LOA) issued by Company to Contractor awarding the contract) as per **Proforma-G** or in any other format acceptable to the Company and must be in the form of Bank Guarantee (BG) or an irrevocable Letter of Credit (L/C) from any of the following Banks:

- i) Any Nationalized / Scheduled Bank in India OR
- ii) Any Indian branch of a Foreign Bank OR
- iii) Any reputed foreign Bank having correspondent Bank in India

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

- 29.2 The Performance Security specified above must be valid for 6 (six) months beyond the Contract duration. The Performance Security will be discharged by Company not later than 30 days following its expiry. In the event of any extension of the Contract period, Bank Guarantee should be extended by Contractor by the period equivalent to the extended period.
- 29.3 The Performance Security shall be payable to Company as compensation for any loss resulting from Contractor's failure to fulfill its obligations under the Contract.
- 29.4 The Performance Security will not accrue any interest during its period of validity or extended validity.

29.5 Failure of the successful Bidder to comply with the requirements of Clause 29.0 and/or 30.0 shall constitute sufficient grounds for annulment of the award and forfeiture of the Bid Security or Performance Security. In such an eventuality, the party shall be debarred for a period of 2 (two) years from the date of default.

30.0 SIGNING OF CONTRACT:

30.1 At the same time as the Company notifies the successful Bidder that its Bid has been accepted, the Company will either call the successful Bidder for signing of the agreement or send the Contract Form provided in the Bid Documents, along with the General & Special Conditions of Contract, Technical Specifications, Schedule of Rates incorporating all agreements agreed between the two parties.

30.2 Within 30 days of issue of LOA, the successful Bidder shall sign and date the Contract and return it to the Company. Till the Contract is signed, the LOA issued to the successful bidder shall remain binding amongst the two parties.

30.3 In the event of failure on the part of the successful Bidder to sign the Contract within the period specified above or any other time period specified by Company, 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.

31.0 FURNISHING FRAUDULENT INFORMATION/DOCUMENTS:

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

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

33.0 MOBILISATION ADVANCE PAYMENT:

33.1 Request for advance payment shall not be normally considered. However, depending on the merit and at the discretion of the Company, advance against mobilization 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.

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

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

34.0 INTEGRITY PACT:

34.1 Company shall be entering into an Integrity Pact with the Bidders as per format enclosed vide Annexure-I of the Bid Document, which has been digitally signed by competent authority of OIL. The Integrity Pact must be submitted with the Techno-commercial Bid duly signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. Any Bid not accompanied by the Integrity Pact duly signed by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who has signed the bid.

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

1. Shri N. Gopaldaswami, IAS (Retd), Ex-CEC, Phone No. : 91-44-2834-2444(Res), 91-9600144444(Cell); **E-mail: gopaldaswamin@gmail.com**
2. Shri R. C. Agarwal, IPS (Retd), Phone No. : 91-11-22752749(Res), 91-9810787089(Cell); **E-mail: rcagarwal@rediffmail.com**

35.0 SITE VISIT: The Bidder, at the Bidder's own cost, responsibility and risk is encouraged to visit and examine the site of work and its surroundings, 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 Pre-bid Conference & 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.

36.0 SPECIFICATIONS:

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

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

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

END OF PART - 1

&&&&&

PART – 2

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

A) BID REJECTION CRITERIA:

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

1.0 TECHNICAL: Bidders must meet the following criteria:

1.1 Service Requirement:

(i) Bid should be complete covering all or any one / two of the service packages mentioned in the Scope of Work for the services as laid down in bid document under scope of work and should conform to the technical specifications indicated in the bid documents, duly supported with technical catalogues/ literature wherever required. Incomplete and non- conforming bids will be rejected outright.

(ii) The bidders may quote for full scope of work or can quote for individual equipment / service package. Each package as defined below will be evaluated separately. The required service packages are as follows:

a. Well Completion Equipment – Packer, Bridge Plug, Cement Retainer and Milling/Retrieving Assemblies (TOR-Section-3 and Section-4)

b. Wellbore Cleanout & Liner Top Negative Test Equipment (TOR-Section-5)

c. Service Packers with Unloader Valves (TOR-Section-6)

Price evaluation for Equipment / Service packages - a, b & c shall be done individually.

(iii) The bidder must have minimum 5 years of in house expertise in providing Well Completion Equipment, Wellbore Cleanout and Liner Top Negative Test Equipment and Service Packers with Unloader valves, together or individually, reckoned from techno commercial bid closing date. The bidder is required to provide documentary evidence in this regard.

(iv) The bidder must have following experience:

a. For Well Completion Equipment Package – The bidder must have experience of providing Well Completion Equipment and associated

services for a minimum of 2 (two) HPHT wells in last 5 (five) years reckoned from techno commercial bid closing date.

- b. For Wellbore Cleanout and Liner Top Negative Test Equipment Package - The bidder must have experience of providing Wellbore Cleanout and Liner Top Negative Test Equipment / Services for a minimum of 2 (two) wells where bottom hole temperature exceeded 300 F.
- c. For Service Packers with Unloader Valves Package -The bidder must have experience of providing Service Packers with Unloader Valves for a minimum of 2 (two) wells where bottom hole temperature exceeded 300 F.
- (v) The bidder must have experience of providing in-house Well Completion Equipment Package to a minimum 1 (one) critical sour well (Expected H₂S in the well are in the range 20-120 ppm). The authorized signatory of the bid/CEO has to self-certify the same indicating experience in critical sour well in the event of a situation of non-submission of contract copies with invoices or job logs, due to 'Confidentiality Agreement'.
- (vi) The key operating personnel for offered services should have minimum 5 years field experience in oil & gas industry and a minimum 2 (two) HPHT well experience in a similar role as proposed for this tender. Bidder should submit bio-data of the proposed personnel(s).
- (vii) Bidder must have established Health, Safety, security and Environment Management System with sound track record. The bidder is required to provide documentary evidence.

Note: As a proof of having experience as per points above, the bidder should provide documentary evidence (viz. well details, Pressure & Temperature of the wells, well locations, client's name with contact details, completion certificates from client/ Copies of contract/ Work orders/ Job logs endorsed by operator/ any other documentary evidence that can substantiate the satisfactory execution of the contracts) showing details of scope of work for the services provided to HPHT wells are to be provided.

Bidder may provide self-certified documents against the Proof of Experience duly signed by CEO / Authorized signatory of the Bid.

- 1.2 The bidder may offer in-house Well Completion Equipment Package / Wellbore Cleanout and Liner Top Negative Test Equipment Package / Service Packer with Unloader Valves Package individually, and for other services, it may offer through collaborator(s)/ joint venture partner(s) through pre-tender tie up. In case of collaboration/ joint venture, the primary bidder has to ensure that its partner satisfies clauses 1.1 (iv) sub-clauses a/ b/ c and Clause 1.1 (v) above.
- 1.2.1 In case of **collaboration/ joint venture**, the primary bidder has to ensure that its partner also meets the experience criteria as mentioned above. In this scenario, the following conditions must be fulfilled:-

- i. In case of pre tender tie up, the bidders should execute a legally enforceable MOU/ Agreement clearly stating that MOU/ Agreement is applicable to this tender and shall be valid for the entire duration of the Contract including extension, if any. Copies of same should be furnished along with the technical bid.
- ii. In case of Joint Venture Partnership / Collaboration, it should be valid for the entire duration of the Contract. Documentary evidence of having collaboration must specify clearly the role and responsibility of each partner/collaborator to provide the manpower/ equipment/ technology or services for completion of the work as per provisions of the Contract. An undertaking by all the parties to this effect must be submitted along with the bid.
- iii. The primary bidder must confirm to **furnish an undertaking** to the Company (OIL) for a single-point unconditional responsibility for execution and completion of the project in all respects under the Terms of Reference (TOR)/Technical Specifications of this tender.

1.2.2 Party(ies) offering individually for all services or, for the services-1.1 a/1.1b/1.1c cannot make any Collaboration/joint venture with other party (ies) for the same service(s).

1.3 Eligibility criteria in case the bid is submitted on the basis of technical experience of the parent / subsidiary company:

Offers of those Bidders who themselves do not meet the technical experience criteria as stipulated in the BEC can also be considered provided the Bidder is a subsidiary company of the parent company in which the parent company has 100% stake or parent company can also be considered on the strength of its 100% subsidiary. However, the parent/ subsidiary company of the Bidder should on its own meet the technical experience as stipulated in the BEC and should not rely for meeting the technical experience criteria on its sister subsidiary/ co-subsidiary company or through any other arrangement like Technical Collaboration agreement. In that case as the subsidiary company is dependent upon the technical experience of the parent company or vice-versa with a view to ensure commitment and involvement of the parent/ subsidiary company for successful execution of the Contract, the participating bidder should enclose an Agreement (as per format enclosed at Attachment – I) between the parent and the subsidiary company or vice-versa and Parent/ Subsidiary Guarantee (as per format enclosed at Attachment – II) from the parent/ subsidiary company to OIL for fulfilling the obligation under the Agreement, alongwith the techno-commercial bid.

1.4 Eligibility criteria in case the bid is submitted on the basis of technical experience of sister subsidiary / Co-subsidiary Company:

Offers of those bidders who themselves do not meet the technical experience criteria stipulated in the BEC can also be considered based on the experience criteria of their sister subsidiary/ co-subsidiary company within the ultimate parent/ holding company subject to meeting of the following conditions:-

- i. Provided that the sister subsidiary/ co-subsiary company and the bidding company are both 100% subsidiaries of an ultimate parent/ holding company either directly or through intermediate 100% subsidiaries of the ultimate parent/ holding company or through any other 100% subsidiary company within the ultimate/ holding parent company. Documentary evidence to this effect to be submitted by the ultimate parent/ holding company along with the techno-commercial bid.
- ii. Provided that the sister subsidiary/ co-subsiary company meets the technical experience criteria stipulated in the BEC on its own meets and not through any other arrangement like Technical Collaboration agreement.

Provided that with a view to ensure commitment and involvement of the ultimate parent/ holding company for successful execution of the contract, the participating bidder shall enclose an agreement (as per format enclosed at Attachment – III) between them, their ultimate parent/ holding company and the sister subsidiary/ co-subsiary company.

- iii. In case of contracts involving multifarious activities such as – (a) manufacturing/ supply (b) installation and commissioning (c) servicing and maintenance of any equipment, then in that case, the bidding company can draw on the experience of their multiple subsidiary sister company(ies)/co-subsiary company(ies) specializing in each sphere of activity, i.e. (a) manufacturing/ supply (b) installation and commissioning (c) servicing and maintenance. However, all the sister subsidiary company(ies)/ co-subsiary company(ies) and the bidding company should be 100% subsidiary company(ies) of an ultimate parent/ holding company either directly or through intermediate 100% subsidiaries of the ultimate parent/ holding company or through any other 100% subsidiary company within the ultimate/ holding parent company. Documentary evidence to the effect that all the sister subsidiary company(ies) are 100% subsidiaries of the ultimate/ holding parent company should be submitted along with the techno-commercial bid.

- 1.5 Bid from Primary bidder meeting the experience criteria of the tender as a service provider, and submitting bids with the option of provisioning the consumables through third party (ies) on direct sale basis to OIL is also acceptable. The Primary bidder shall however, take full responsibility for delivering the consumables/ any interruption in operation and without any extra cost to OIL. Zero rates shall be applicable for any suspension of Work due to non-availability of consumables.

1.6 **VINTAGE OF TOOLS / EQUIPMENT**

For Well Completion Equipment Package - All major equipment offered for this service package i.e. Hydraulic Setting Tools, WLPSA, WLAK, Milling

Assemblies etc. shall not be more than 7 (seven) years old (i.e. manufactured not before 7 (seven) years from the bid closing date). All consumables should be newly manufactured, within last 1 (One) year from the date of delivery at Company's base. All Rental Equipment should be fully serviced and redressed like new when mobilized for use by the Company.

For Wellbore Cleanout and Liner Top Negative Test Equipment Package

- All major equipment offered for this service package i.e. magnets, mills, scrapers, packer etc. shall not be more than 7 (seven) years old (i.e. manufactured not before 7 (seven) years from the bid closing date). All Rental Equipment should be fully serviced and redressed like new when mobilized for use by the Company.

For Service Packer with Unloader Valves Package

- All major equipment offered for this service package i.e. service packers and unloader valves shall not be more than 7 (seven) years old (i.e. manufactured not before 7 (seven) years from the bid closing date). All Rental Equipment should be fully serviced and redressed like new when mobilized for use by the Company.

1.7 **MOBILIZATION PERIOD:**

The bidders must confirm their compliance in their "Techno-Commercial" bid to complete the mobilization within **210 days** as detailed below from the date of issue of the Letter of award (LOA) for respective items. Please note that LOA for different items may be issued at different times, at the discretion of the Company and as per planned operations.

Particulars	Mobilization Time
Delivery / Mobilization of Test Packers and Cast Iron Bridge Plug (CIBP) – TOR Section-3	Within 210 days of Mobilization notice issued by the Company
Delivery / Mobilization of Well Completion Equipment except Test Packers & CIBP – TOR Section-4	Within 120 days of Mobilization notice issued by the Company
Mobilization of Wellbore Cleanout and Liner Top Negative Test Equipment – TOR Section-5	Within 120 days of Mobilization notice issued by the Company
Mobilization of Service Packers and Unloader Valves – TOR Section-6	Within 120 days of Mobilization notice issued by the Company
Mobilization of Contractor's Personnel for all services	Within 10 days of Mobilization notice issued by the Company
Delivery / Mobilization of Optional/Additional Items – Test Packers, CRA Packers, CIBP – TOR Section-3	Within 150 days of Mobilization notice issued by the Company
Delivery / Mobilization of Optional/Additional Items – Well Completion Equipment (except Test Packers & CIBP), Wellbore Cleanout and Liner Top Negative Test Equipment and Service Packers – TOR Section-4, Section-5 and Section-6	Within 90 days of Mobilization notice issued by the Company

1.8 **OTHER REQUIREMENTS:**

- (i) The bid along with all technical documentations must be in English language only. Else, bids will be rejected.
- (ii) The bidder should submit technical specification along with drawing of equipment & tools for the offered services at the time of bid submission without which the bid will not be considered for bid evaluation.
- (iii) The competent personnel deployed for various services under respective packages should be fluent in English language.
- (iv) Bidders must confirm to the Mobilization Schedule for the offered services.
- (v) Bidder must submit a written commitment to bring adequate quantity of spares to meet maintenance / redressing requirements of their equipment in the course of the operations. This quantity must be sufficient to ensure that operations are not delayed at any point of time due to non-availability of equipment / spares. The bidders should also maintain 1 (One) back-up of all rental tools to ensure uninterrupted operations.

1.9 **DOCUMENTS TO BE SUBMITTED:**

To qualify for consideration, bidders are required to supply one (1) set of the following documentation, with the specific chapters, separated by dividers, in the same order as set out here below (a) to (p):

- a) A separate section summarizing the contents chapter by chapter of the qualification document.
- b) Bidder's general structure and organisation, including the branch / sub-division dedicated to such activities.
- c) Details of company's Health, Safety and Environmental Policy and Programme together with HSE Management System.
- d) Safety record summaries for accidents, injuries, damages, near-misses & LTI over the past two (2) years.
- e) Quality Assurance System certified ISO 9001 or equivalent.
- f) Details of relevant verifiable experience of similar services that has been undertaken as main contractor including a minimum of 2(two) HPHT wells for **Well Completion Equipment** in the last 5 (Five) years inside or outside India.
- g) Details of relevant verifiable experience of similar services that has been undertaken as main contractor including a minimum of 2(two) wells where bottom hole temperature exceeded 300 F for **Wellbore Cleanout & Liner Top Negative Test Equipment** and **Service Packer with Unloader Valves**, inside or outside India.
- h) Detailed Run Histories of offered **Well Completion Equipment** or similar equipment (referring to Item Codes as per Proforma-B, Price Bid Format), which should include pressure, temperature, depth, completion fluid properties, circulation rates (if applicable) and tool performance details. HPHT Jobs to be highlighted in such summaries.

- i) Short summary of previous runs of offered **Wellbore Cleanout & Liner Top Negative Test Equipment** and **Service Packer with Unloader Valves** or similar equipment (referring to Item Codes as per Proforma-B, Price Bid Format), which should include well bottom hole temperature and other relevant details. Wells with bottom hole temperature greater than 300 F to be highlighted in such summaries.
- j) Reference (including emails and telephone numbers) of three major customers that can be contacted for information / reference.
- k) Description and brief specifications of services offered for these projects.
- l) List of all equipment/services offered as per the Technical Specifications / Terms of Reference, including Product Sheets and supporting technical literature
- m) Vintage of all offered equipment / tools as per Clause 1.6 above.
- n) Resume of key personnel to be involved in the services with experience in their respective position as per Proforma-K.
- o) Qualifier's audited accounts for the past three (3) accounting years, in compliance with Clause 2.1 stated below.
- p) All relevant information concerning contacts, telephone, fax, e-mail of the contractor's representative.
- q) MOU/ Agreement concluded with consortium partners along with the techno-commercial bid, if applicable.
- r) Undertaking to submit Quality Assurance Certificate or third party inspection reports of the offered equipment.
- s) Experience of bidder – Statement to be furnished by bidder of similar jobs executed (as per Clause 1.1 of part 2 above) in tabular form alongwith copies of contracts / work orders /completion certificates / proof of release of Performance Security/ final payment certificates issued by the clients/ job logs endorsed by clients/any other documentary evidence that can substantiate the satisfactory execution of the contracts. Bidder may provide self-certified documents against the Proof of Experience duly signed by CEO / Authorized signatory of the Bid.

In addition, bidders must provide two (2) clearly labelled electronic copies (CD/DVD ROM) of the qualification documents. Bid without the listed documents or information shall be rejected.

2.0 COMMERCIAL - BID SUBMISSION

- 2.1. Financial Strength of the Bidder:** Average annual financial turnover shall be Minimum **INR 0.87 Crores or equivalent US\$ 145,000.00 during the last 3 accounting years.**
- 2.2. The bids are to be submitted in a single stage two bid system, i.e. Techno-commercial bid (Un-priced) and Commercial Bid (Priced) separately as per Part-1, Clause 15.1 of the Tender. Bids shall be rejected outright if the Techno-commercial bid contains the prices.
- 2.3. Bidder shall offer **firm prices**. Price quoted by the successful bidder must remain firm during the execution of the Contract and not subject to variation on any account.

- 2.4. Scanned copy of **Bid Security** shall be uploaded as a part of the Techno-commercial Bid in the C-folder of OIL's E-portal. The original Bid Security shall be submitted by bidder to the office of General Manager (KGB&BEP), KAKINADA, India in a sealed envelope and must reach office of the General Manager, Kakinada on or before the Techno-commercial Bid Opening date. The amount of Bid Security shall be as specified in the Bid Document.
- 2.5. The Integrity Pact, duly signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid, shall be furnished as a part of the techno-commercial bid. Bids without the Integrity Pact digitally signed by the bidder shall be rejected straightway.
- 2.6. Bids with shorter validity period will be rejected as being non-responsive.
- 2.7. Any bid received in the form of Telex/Cable/Fax/Email will not be accepted.
- 2.8. The bid documents are not transferable. Bids made by bidders who have not been issued the Bid documents from the Company will be rejected.
- 2.9. Bidders shall bear, within the quoted rates, the personal tax as applicable in respect of their personnel and Sub-contractor's personnel, arising out of execution of the Contract.
- 2.10. Bidders shall bear, within the quoted rate, the corporate tax as applicable on the income from the Contract.
- 2.11. Any bid containing false statement may be liable for rejection.
- 2.12. Bidders must quote clearly and strictly in accordance with the price schedule outlined in Price-Bid Format of bidding document; otherwise the bid will be summarily rejected.
- 2.13. Bidders shall quote directly and not through their agents in India. Offers made by Indian agents on behalf of their foreign principals will be rejected. One Indian agent cannot represent more than one foreign principal.
- 2.14. Bidder must accept and comply with the following clauses as given in the Tender Document in toto failing which offer shall be rejected.
 - (i) Performance Guarantee Bond Clause
 - (ii) Force Majeure Clause
 - (iii) Tax Liabilities Clause
 - (iv) Arbitration Clause
 - (v) Acceptance of Jurisdiction and Applicable Law
 - (vi) Liquidated damage cum penalty clause
 - (vii) Safety and Labour Law
 - (viii) Termination Clause
 - (ix) Integrity Pact
 - (x) Bid Security Clause

3.0 GENERAL

- 3.1 **Proforma - D - The compliance statement should be duly filled up.** In case bidder takes exception to any clause of the tender document not covered under BEC/BRC, then the Company has the discretion to load or reject the offer on account of such exception if the bidder does not withdraw/modify the deviation when/as advised by Company. The loading so done by the Company will be final and binding on the bidders.
- 3.2 To ascertain the substantial responsiveness of the bid, the Company reserves the right to ask the bidder for clarification in respect of clauses covered under BEC/BRC also and such clarifications fulfilling the BEC/BRC clauses in toto must be received in **“ONE GO”** 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 contradict with other clauses of tender document elsewhere, then the clauses in the BRC shall prevail.

B. BID EVALUATION CRITERIA:

- I. The bids conforming to the technical specifications, terms and conditions stipulated in the tender are considered to be responsive after subjecting to Bid Rejection Criteria; and will be considered for further evaluation as per the Bid Evaluation Criteria given below.
- II. To ascertain the inter-se-ranking, the comparison of the responsive bids will be made subject to loading for any deviation. Commercial Bids shall be evaluated taking into account the rates quoted in the **PRICE BID FORMAT as per Proforma - B.**
- III. For conversion of foreign currency into Indian currency for evaluation of Bids, B.C. selling (Market) rate declared by State Bank of India, one day prior to the date of priced bid opening shall be considered. However, if the time lag between the opening of the bids and final decision exceeds 3(three) months, then B.C. Selling(Market) rate of exchange declared by SBI on the date prior to the date of final decision shall be adopted for conversion and evaluation.
- IV. The quantities shown against each item in the **“Price Bid Format (i.e. in Proforma-B)”** shall be considered for the purpose of Bid Evaluation. It is, however, to be clearly understood that the assumptions made in respect of the number of days/parameters for various operations are only for the purpose of evaluation of the bid and the bidder will be paid on the basis of the actual number of days/parameter, as the case may be.

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

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

- (a) Be registered within India

- (b) Have majority ownership by Nationals of India
- (c) Not sub-contract more than 50% of the works measured in terms of value, to foreign contractors.

For meeting the criteria at (c) above, domestic bidders should obtain a certificate in original from practicing Statutory Auditor engaged by them for auditing their annual accounts, which could establish that not more than 50% of the works measured in terms of value has been sub-contracted to foreign contractors. The original certificate indicating various sub-contracting details in percentage terms as well as in absolute value should be submitted in the priced bid. However, a copy of the Statutory Auditor's certificate indicating various sub-contracting details in percentage terms only and with price details should be submitted in the un-priced bid.

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

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

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

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

5.0 Custom Duty: The services under this Contract shall be carried out in PEL areas of the Company issued or renewed to Company after 01/04/99 and therefore, imports under this Contract is presently exempted from Customs Duty. Bidders should take note of the same while quoting. No customs duty is therefore considered for evaluation.

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 indicated:

- a) “**Affiliate**” as applied to Company, its Co-venture’s, Participants, Contractor, sub-contractor shall mean in relation to any company, at any time, any other entity (a) in which such company directly or indirectly controls more than 50% (fifty percent) of the registered capital or rights to vote or (b) which directly or indirectly controls more than fifty per cent (50%) of the registered capital or rights to vote of such company; or (c) of which an entity as mentioned in (b) above, controls directly or indirectly more than fifty percent (50%) of the registered capital or the rights to vote and shall include a subsidiary or a holding company of any tier of the aforementioned;
- b) “**Approval**” as it relates to Company, means written approval;
- c) “**Company**” or “OIL” means Oil India Limited;
- d) “**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;
- e) “**Company’s Personnel**” mean the personnel to be provided by 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;
- f) “**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;
- g) “**Contractor**” means the individual or firm or Body incorporated performing the work under this Contract;
- h) “**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 section II under Terms of Reference and Technical Specifications;
- i) “**Contractor’s Personnel**” mean the personnel to be provided by the Contractor from time to time to provide services as per the contract;
- j) “**Critical sour well**” means documented in industry recommended practice Volume 1 (IRP 1);
- k) “**Day**” means a calendar day of twenty-four (24) consecutive hours beginning at 06:00 hrs. and ending at 06:00 hrs.;

- l) **“Drilling Rig”** shall mean the onshore drilling rig and associated equipment;
- m) **“Gross Negligence”** means any act or failure to act (whether sole, joint or concurrent) by a person or entity which was intended to cause, or which was in reckless disregard of or wanton indifference to, avoidable and harmful consequences such person or entity knew, or should have known, would result from such act or failure to act. Notwithstanding the foregoing, Gross negligence shall not include any action taken in good faith for the safeguard of life or property;
- n) **“HPHT well”** shall mean a well where the undisturbed bottom hole temperature at prospective reservoir depth or total depth is greater than 350 °F (175°C) and either the maximum anticipated pore pressure of any porous formation to be drilled through exceeds a hydrostatic gradient of 0.8 psi/ft. (representing an EMW of 1.85 SG or 15.4 ppg) or pressure control equipment with a rated working pressure in excess of 10000 psi is required;
- o) **“Party”** shall mean either the Company or Contractor as the context so permits and, as expressed in the plural, shall mean the Company and Contractor collectively;
- p) **“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;
- q) **“Work”** means each and every activity required for the successful performance of the services described in Section II, the Terms of Reference.

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

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

2.2 MOBILISATION TIME OF CONTRACT: The mobilization of Tools & equipment, accessories, consumables and personnel, as specified in this Contract, should be completed by Contractor within the time period as specified in ‘**Clause B, 8.0**’ of Section II ‘Terms of Reference and Technical Specifications’. Mobilization shall be deemed complete:

- a. Once Contractor’s items and personnel reaches the Company’s or Contractor’s base near to the Site, Contractor shall issue a notice of inspection (stating its readiness to commence Work as envisaged under the Contract) to the Company; and
- b. Company shall inspect the Contractor’s items within 7 (seven) days on receipt of the Contractor’s notice of inspection and certify completion of mobilization. Should Company representative report any damage/ deficiency during the inspection, the mobilization shall be completed only after the remedy/ fulfillment of such damage/ deficiency.

Note: The Company, at its discretion, may allow mobilization on staggered basis & mobilization charges shall be paid accordingly.

2.3 COMMENCEMENT DATE OF THE CONTRACT: The date on which the Mobilization is completed, as defined in Clause 2.2 above, shall be treated as Commencement Date of the Contract.

2.4 DURATION/ COMPLETION OF CONTRACT: The Contract shall be initially valid for a period of 1 (one) year from the Commencement Date of the Contract with an option to extend the same for a further period of 1 (one) year at the discretion of Company at the same rates, terms and conditions. The terms and conditions shall stand extended automatically until the completion / abandonment of the well being drilled at the time of the end of initial term of the Contract or any extension thereof.

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

3.1 Provide Contractor's items and Personnel necessary to perform the services under the Contract as specified in this document. Contractor shall be liable to obtain any permits or licenses required for Contractor's Personnel and the use of Contractor's Items.

3.2 Arrange and be responsible for the maintenance and repair of all Contractors' items and will provide all spare parts, materials, consumables etc. during the entire period of the Contract at its own cost.

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

3.4 Except as otherwise provided in the 'Section II', provide all manpower as required to perform the Work.

3.5 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.

3.6 The 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.

3.7 The 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.

3.8 Take all measures necessary to protect the personnel, Work and facilities; and shall observe all safety regulations in accordance with acceptable oilfield practice and applicable Indian Laws such as Mines safety rules etc. Contractor shall take all measures reasonably necessary to provide safe working conditions and shall exercise due care & caution in preventing fire, explosion and blow out.

4.0 GENERAL OBLIGATIONS OF THE COMPANY: Company shall, in accordance with and subject to the terms and conditions of this Contract:

4.1 Pay the Contractor in accordance with terms and conditions of the Contract. The period of time for which each rate shall be applicable shall be computed from and to the nearest hour. The rates contained in the Contract shall be based on Contractor's operation being conducted on a seven (7) days week and a twenty-four (24) hours work day. Under the Contract, Contractor will be entitled to the applicable rate defined in Section III 'Schedule of Rates'. These rates are payable when the required condition has existed for a full 24 hours period. If the required condition existed for less than 24 hours then payments shall be made on pro-rata basis.

4.2 Allow Contractor access, subject to normal security and safety procedures, to all areas as required for orderly performance of the work.

4.3 Perform all other obligations required of Company by the terms of this Contract.

5.0 PERSONNEL TO BE DEPLOYED BY THE CONTRACTOR:

5.1 Contractor warrants that it shall provide competent, qualified and sufficiently experienced personnel as specified in the 'Terms of Reference and Technical Specifications' to perform the Work correctly and efficiently.

5.2 The Contractor should ensure that their personnel observe applicable Company's and statutory safety requirement. Upon Company's written request, the 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 Company shall provide only boarding & lodging facility at site for 1 (one) no. of Contractor's personnel. The Contractor shall be solely responsible throughout the period of the Contract for providing all other requirements of their personnel including but not limited to, their transportation to & fro from Site, enroute/ local boarding, lodging & medical attention etc. Company shall have no responsibility or liability in this regard.

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

5.5 The Contractor shall be responsible for its personnel at the Operating Area so as to ensure prompt and efficient completion of Work and strict discipline among its personnel. Contractor's personnel shall abide by all reasonable rules and regulations governing the Work promulgated by Company and notified in writing to Contractor.

5.6 The Contractor shall designate one of its personnel at the Operating Area as Contractor's representative, who shall be in charge of Contractor's personnel and who shall have full authority to resolve day to day Work issues which arise between Company and Contractor.

5.7 The Contractor's personnel shall have access to the medical assistance as may be available to Company's employees at the drilling Site. In the event of emergency at a drilling site requiring hospital treatment of Contractor's personnel, Company

shall secure transportation of said personnel to the nearest hospital, provided that Company shall bear no responsibility.

6.0 WARRANTY AND REMEDY OF DEFECTS:

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

6.2 Should the Company discover at any time during the tenure of the Contract or till such time Contractor's items is in the base camp after issuance of 'Demobilization Notice/expiry of the Contract that the Work does not conform to the foregoing warranty, Contractor shall after receipt of notice from Company, promptly perform any and all corrective work required to make the services conform to the Warranty. Such corrective Work shall be performed entirely at Contractor's own expenses. If such corrective Work is not performed within a reasonable time, the Company, at its option may have such remedial work performed by others at the risk of Contractor and charge the cost thereof to Contractor which the Contractor must pay promptly. In case Contractor fails to perform remedial work, or fails to pay promptly in respect thereof, the performance security shall be forfeited.

7.0 CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:

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

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 & DUTIES:

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

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

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

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

8.5 Deleted.

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, Value Added Tax, octroi, etc. on purchases and sales made by Contractor (except customs duty) shall be borne by the contractor.

8.9 **Service tax:** Service Tax, as applicable, on the payments against this Contract shall be paid by the Company against the invoice.

8.10 CUSTOMS DUTY

- (a) The Company shall use the Services under this Contract in the PEL/ML are as renewed/ issued to Company after 1.4.1999 and therefore, in terms of Notification No. 21 dated 01.03.2002, goods specified in List-12 imported in connection with petroleum operations under this Contract would attract zero customs duty. Company will issue Recommendatory Letter (RL) to Directorate

General of Hydrocarbons (DGH), Ministry of Petroleum & Natural Gas, as per Government guidelines for issuance of Essentiality Certificate (EC), to enable the Contractor to import goods at concessional (Nil) customs duty so as to provide the services under this Contract.

- (b) The Contractor shall provide the list of items to be imported by him under the Contract in the format specified in Proforma-A for issuance of Recommendatory Letter. The Contractor shall make written request to the Company immediately after shipment of the goods indicated by them in Proforma-A, along with the Invoices and all shipping documents (with clear 15 working days' notice) for issuance of the RL. OIL shall issue the RL provided all the documents submitted by the Contractor are found in order. However, it shall be Contractor's responsibility to obtain EC from DGH and clear the goods through customs at its own cost. OIL shall not be liable in whatsoever manner for the rejection of their claims for zero customs duty by any of the authorities including DGH. The Contractor shall indemnify OIL from all liabilities of Customs Duty.
- (c) In the event customs duty becomes leviable during the course of Contract, arising out of a change in the policy of the Government, Company shall reimburse the customs duty paid by Contractor on production of documentary proof evidencing payment of customs duty on Contractor's items as provided in Proforma-A or the actuals whichever is less.

The Company's obligation for Customs Duty payment shall be limited/restricted to the duty tariff rates as assessed by the Customs on the day of clearance or as on the last day of the stipulated Mobilization period. In case of clearance thereafter, the CIF value of items in Proforma-A will be frozen as on the last day of Mobilization period and any increase in Customs Duty on account of increase in duty tariff will be to the Contractor's account.

Furthermore, in case the above CIF value is not acceptable to assessing Customs Officer and as a result if any excess Customs Duty becomes payable, it shall be to Contractor's account.

- (d) The Contractor shall arrange clearance of such items from Customs and port authorities and shall pay all requisite demurrages, if any, clearance fees/charges, port fees, clearing and forwarding agent fees/charges, inland transport charges etc. Company shall provide all assistance by issuance of necessary letter of authority or other relevant documents and necessary help.
- (e) The Contractor must ensure that the spares and consumables imported by them for providing the services under Contract are used only in executing their job under this Contract in the PEL/ ML areas of Company for which EC has been obtained. Contractor shall furnish to Company a certificate as and when the spares and consumables are used/ consumed certifying that the spares and the consumables imported by them have been consumed in those PEL/ ML areas under the Contract for which ECs were obtained by them. Contractor shall furnish an Undertaking similar to that being furnished by Company to Customs of suitable amount before issue of the Recommendatory Letter.

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, its Co-ventures 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 (Section III). Upon review of Contractor's estimate, Company shall establish and set forth in the Change Order the amount of the compensation or credit for the change or a basis for determining a reasonable compensation or credit for the change. If Contractor disagrees with compensation or credit set forth in the Change Order, Contractor shall nevertheless perform the Work as changed, and the parties will resolve the dispute in accordance with Clause 13 hereunder. Contractor's performance of the work as changed will not prejudice Contractor's request for additional compensation for work performed under the Change Order.

11.0 FORCE MAJEURE:

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

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

11.3 Should 'Force Majeure' condition as stated above occurs and should the same be notified within seventy two (72) hours after its occurrence the 'Force Majeure' rate shall apply for the first 10 (ten) days. Either party will have the right to terminate the Contract if such 'Force Majeure' conditions continue beyond 10 (ten) days with prior written notice. Should parties decide not to terminate the Contract even under such condition, no payment would apply after expiry of 10 (ten) days force majeure period unless otherwise agreed to. Time for performance of the relative obligation suspended by the 'Force Majeure' shall then stand extended, at the discretion of the Company, by the period for which such cause lasts.

12.0 TERMINATION:

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

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

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

12.4 **TERMINATION FOR UNSATISFACTORY PERFORMANCE:** If the Company considers that, the performance of the Contractor is unsatisfactory, or not up to the expected standard, the Company shall notify the Contractor in writing and specify in details the cause of the dissatisfaction. The Contractor, within a period of 7 (seven) days after such notice, shall proceed diligently to remedy to Company's satisfaction the matter(s) complained of, failing which Company shall have the option to terminate the Contract by giving 15 (fifteen) days' notice in writing to the 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 If at any time during the term of the Contract, breakdown of Contractor's equipment results in Contractor being unable to perform their obligations hereunder for a period of 15 (fifteen) successive days, Company at its option may terminate this Contract in its entirety without any further right or obligation on the part of the Company except for the payment of money then due. No notice shall be served by the Company under the condition stated above.

12.7 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the Company on giving 30 (thirty) days written notice to the Contractor due to any other reason not covered under the above clause from 12.1 to 12.6 and in the event of such termination the Company shall not be liable to pay any cost or damage to the Contractor except for payment for services as per the Contract up to the date of termination.

12.8 **CONSEQUENCES OF TERMINATION:** In all cases of termination herein set forth, the obligation of the Company to pay for Services as per the Contract shall be limited to the period 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.

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 under Clause 12.3 to 12.6, no demobilization charges will be due to the Contractor. Further, demobilization charges will also not be payable under Clause 12.7 if termination is due to Contractor's default.

12.11 In the event of termination of Contract, Company will issue Notice of termination of the Contract specifying 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.

12.12 **COMPANY'S RIGHT TO TAKEOVER:** In the event, Company is justifiably dissatisfied with Contractor's performance during the operation of any well hereunder on account of unreasonably slow progress or incompetence as a result of cause reasonably within the control of the Contractor, the Company shall give the Contractor written notice in which it shall specify in detail the cause of its dissatisfaction. Should the Contractor, without reasonable cause, fail or refuse to commence remedial action within 1 (one) day of receipt of the said written notice, the Company shall have the right to but not obligation to take over the specific operations, where the Contractor has failed to perform, till such time the Contractor commences remedial action. During the period of any such takeover, the entire cost of operation carried out by the Company will be deducted from the Contractor's payment, in addition to imposing penalty as applicable as per the Contract for the Contractor's failure.

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 Arbitration should be conducted by a panel of 3 (three) Arbitrators, where each party shall appoint one Arbitrator and such Arbitrators should mutually select and appoint the third and Presiding Arbitrator. If any party fails to appoint an Arbitrator within 30 (thirty) days of being notified to do so by the other Party or if the two Party appointed Arbitrators fail to agree on the third Arbitrator, the Parties shall be at liberty to seek appointment of Arbitrator in accordance with the Arbitration and Conciliation Act, 1996 by a petition before a Court having jurisdiction. The venue of arbitration will be Kakinada, Andhra Pradesh/ 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 by telex or Fax and confirmed in writing to the applicable address specified below:

Company

General Manager (KGB&BEP)
OIL INDIA LIMITED
D. No. 11-4-7
Nokalamma Temple Street
Ramaraopeta
Kakinada- 5330004
Andhra Pradesh (India)
Fax No. 0884-2352383

Contractor

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

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

16.0 MISCELLANEOUS PROVISIONS:

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

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

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

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

17.0 LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY MOBILISATION:

17.1 Time is the essence of this Contract. In the event of the Contractor's default in timely mobilization for commencement of operations within the period stipulated in Clause 2.2 of 'General Conditions of Contract', the Contractor shall be liable to pay liquidated damages at the rate of ½% of estimated 1st year Contract value (including mobilization charge) per week or part thereof of delay subject to maximum of 7.5%. Liquidated Damages will be reckoned from the date after expiry of the scheduled mobilization period till the Commencement Date of the Contract as defined in Clause No. 2.3 of 'Section-I'.

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

18.0 PERFORMANCE SECURITY: The Contractor shall furnish to Company a Bank Guarantee/ LC for 7.5% of the estimated Contract value valid till 6 (six) months beyond the Contract Expiry date towards Performance Security. The Performance Security shall be forfeited by Company, if Contractor fails to fulfill its obligations under the Contract or in respect of any amount due from the Contractor to the Company. In the event of any extension of the Contract period, Performance Security should be extended by the period equivalent to the extended period of the contract. The Performance Security shall be discharged by Company not later than 30 (thirty) days following its expiry.

19.0 ASSOCIATION OF COMPANY'S PERSONNEL: Company's personnel will be associated with the work throughout the operations, who shall at all times have complete access to the Site for the purpose of observing inspection or supervising the work performed by Contractor.

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

21.0 LIABILITY:

21.1 Except as otherwise expressly provided, neither Company nor its 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 sub-contractors. The Contractor shall protect, defend, indemnify and hold harmless Company from and against such loss or damage and any suit, claim or expense resulting therefrom.

21.2 Neither Company nor its 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 sub-contractors. Contractor shall protect, defend, indemnify and hold harmless Company from and against such liabilities and any suit, claim or expense resulting therefrom.

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

21.4 The Contractor hereby further agrees to waive its right of recourse and agrees to cause its underwriters to waive their right of subrogation against Company and/or its 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.

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

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

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

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

22.0 INDEMNITY AGREEMENT:

22.1 Except as provided hereof Contractor agrees to protect, defend, indemnify and hold Company and its co-leases 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 of personnel, or damage to 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.

22.2 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 of personnel, or damage to property as a result of the operations contemplated hereby, regardless of whether or not said claims, demands or causes of action arise out of the negligence or otherwise, in whole or in part or other faults.

23.0 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.

24.0 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.

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

25.1 Company shall pay to the Contractor during the term of the Contract, the amount due from time to time calculated according to the rates of payment set and in accordance with other provisions hereof. No other payments shall be due from Company unless specifically provided for in the Contract. All payments will be made in accordance with the terms hereinafter described.

25.2 **FIRM PRICE:** The rates payable under this Contract, shall be firm during Contract period including the extension period, if any, under Clause 2.4 of the Section - I 'General Conditions of Contract'.

25.3 **MANNER OF PAYMENT:** All payments due by Company to Contractor hereunder shall be made at Contractor's designated bank account with Reserve Bank of India (RBI)'s approval, if applicable. Bank charges, if any will be on account of the Contractor.

25.4 Payment of any invoices shall not prejudice the right of Company to question the validity of any charges therein, provided Company within 2 (two) year after the date of payment shall make and deliver to Contractor written notice of objection to any item or items the validity of which Company questions.

25.5 **INVOICES:** Mobilization charges will be invoiced only upon completion of mobilization as defined in Clause 2.2 of 'Section I'. Payment of mobilization charges shall be made within 45 days following the date of receipt of undisputed invoices by Company.

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

25.7 Contractor will submit six sets of all invoices duly super scribed 'Original' and 'copy' as applicable to the Company for processing payment. Separate invoices for

the charges payable under the Contract shall be submitted by the Contractor for foreign currency and Indian currency. Contractor shall provide break-up of cost of goods/ material and cost of services in the invoice.

25.8 Payment of monthly invoices, if undisputed, shall be made within 30 (thirty) days following the date of receipt of invoice by Company excepting for the first two (2) monthly invoices where some delay (up to two month) may occur.

25.9 Company shall within 20 (twenty) days of receipt of the invoice notify the Contractor of any item under dispute, specifying the reasons thereof, in which event, payment of the disputed amount may be withheld until settlement of the dispute, but payment shall be made of any undisputed portion on or before the due date. This will not prejudice the Company's right to question the validity of the payment at a later date as envisaged in Clause 25.4 above.

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

25.11 Pursuant to Clause 28, payment of demobilization charges shall be made when applicable within 45 days following receipt of invoice by Company accompanied by the following documents from the Contractor:

- a) Proof of re-export of all items (excepting which are consumed during the Contract period) and also cancellation of re-export bond if any.
- b) Any other documents as required by applicable Indian Laws.

In case, no demobilization charges are payable, the documents mentioned above will have to be submitted by the Contractor before release of the final payment by the Company.

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

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

25.14 **SUBSEQUENTLY ENACTED LAWS:** Subsequent to the date of issue of letter of award if there is a change in or enactment of any law or interpretation of existing law, which results in addition/reduction in cost to Contractor on account of the operation contemplated under the Contract, the Company/ Contractor shall reimburse the Contractor/pay Company for such additional / reduced costs actually incurred/ saved by Contractor, subject to the submission of documentary evidence by Contractor/ Company.

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

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

Withholding will also be effected on account of the following:

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

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

25.15 **RATE OF PAYMENT:** The Company shall make payments to the Contractor as per the quoted rates as referred to in ‘Schedule of Rates’ and Proforma-B..

26.0 APPLICABLE LAW:

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

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

- a) The Mines Act - as applicable to safety and employment conditions.
- b) The Minimum Wages Act, 1948.
- c) The Oil Mines Regulations, 1983.
- d) The Workmen’s Compensation Act, 1923.
- e) The Payment of Wages Act, 1963
- f) The Payment of Bonus Act, 1965
- g) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed thereunder
- h) The Employees’ Pension Scheme, 1995
- i) The Interstate Migrant Workmen Act., 1979 (Regulation of employment and conditions of service)
- j) The Employees Provident Fund and Miscellaneous Provisions Act, 1952
- k) The AGST Act
- l) Service Tax Act
- m) Customs & Excise Act & Rules
- n) Oil Industry Safety Directorate (OISD) guidelines.
- o) Forest Conservation Act, 1980
- p) Andhra Pradesh Entry Tax.

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

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

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

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

- (i) Approval from DGMS/DDMS for shift patterns in excess of 8 hours.
- (ii) Total manpower list.
- (iii) All certificates as per applicable laws including Mines Acts.
- (iv) Regional Labour certificate, if required.

27.0 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 Site, 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 Work 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 records, reports, Site, or give out to any third person information in connection therewith.

28.0 DEMOBILISATION & RE-EXPORT:

28.1 The Contractor shall arrange for and execute demobilization of the entire package of Tools/ Equipment/ Spare/ Accessories/ Manpower etc. provided by Contractor under the Contract upon receipt of notice for demobilization from Company. The Contractor is required to clear off the Site within 30 (thirty) days and Demobilization shall be completed by the Contractor within 60 (sixty) days from the date of 'Demobilization Notice' served by the Company.

Tools/ Equipment/ Accessories/ Spares/ Consumables imported by Contractor under this Contract on re-export basis, shall be re-exported (except for those consumed during the operations) by the Contractor on completion of the Contract. Immediately after re-export of Tools/ Equipment/ Accessories and the unused spares & consumables, Contractor shall submit the detailed re-export documents to Company as documentary proof of re-export. In case of failure to re-export any of the items as above within the allotted time period of 60 (sixty) days except under circumstances relating to Force Majeure, Company reserves the right to withhold the estimated amount equivalent to the Customs Duty and/or penalty leviable by customs on such default in re-export from Contractor's final settlement of bills and Performance Security.

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

29.0 POLLUTION AND CONTAMINATION:

29.1 The Contractor shall be liable for all surface pollution to the extent caused by Contractor and resulting from spillage or rubbish in any form or dumping of solvents/ additive substances or pollutants which the Contractor brings to the Site

for use in connection with Work to be performed under this Contract. However, in the event of such dumping or spillage or discharge by Contractor, Contractor shall immediately assume all responsibility at their cost for the removal of items, substances or rubbish so dumped or discharged and for any resulting pollution or contamination in any form, at the well Site and the surrounding area.

29.2 Pursuant to Clause 29.1 above, the Company agrees that Contractor shall not be responsible for and Company shall indemnify and hold Contractor its agent, servants, officers and employees harmless from any liability, loss, cost or expense for loss or damage from pollution or contamination arising out of or resulting from any of Contractor's services/ operations unless such pollution or contamination is caused by Contractor's Gross Negligence.

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

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

29.4 In the event, a third party commits an act or omission which results in pollution or contamination for which either the Contractor or Company, for whom such party is performing work, is held to be legally liable the responsibility therefore shall be considered as between the Contractor and Company, to be the same as if the party for whom the work was performed and all of the obligations respecting defiance indemnity, holding harmless and limitations of responsibility and liability, shall be specifically applied.

30.0 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.

31.0 LOSS OF HOLE OR BLOWOUT OR CRATER: The Company shall be responsible for and shall defend and indemnify and hold harmless Contractor and its subcontractor against all loss of or damage to the hole, the well or casing therein, or for the cost of regaining control of a wild well, and re-drilling, and in the event of well blows out, for loss, damage, personal injury or death arising on the surface as a result of such subsurface occurrence, including damage to any drilling rig or the structure at or around the well-site, and for removal of debris, pollution or contamination including costs of cleaning up and disposal regardless of cause.

32.0 DAMAGE OR LOSS OF CONTRACTOR'S EQUIPMENT:

32.1 **SURFACE EQUIPMENT:** The Contractor shall at all times be solely responsible for any damage to or loss or destruction of its surface equipment and

other property irrespective of how such loss, damage or destruction is caused, and even if caused by the negligence of the Company and/ or his servants, agents, nominees, assignees, contractors and subcontractors, and the Contractor shall hold harmless and indemnify the Company from and against any expenses, loss or claim related to or resulting from such loss, damages or destruction.

If the Contractor's items are declared to be total loss and/ or construed to be total loss, as determined by the applicable insurance coverage, this Contract shall terminate for the occurrence of the event causing such loss and each party shall there upon be released of all further obligations here under in respect of this Contract, except for its payment of monies then due or liabilities to be charged in respect of the Work already done under this Contract.

32.2 SUBSURFACE EQUIPMENT: OIL shall reimburse Contractor for loss of or damage to Contractor's down hole equipment/ tool, as under, provided that such loss or damage is not occasioned by normal wear and tear/ malfunctioning of Contractor's tool/ negligence on the part of the Contractor.

- i) In the case of Contractor's down hole equipment/ tool being damaged, OIL will reimburse Contractor such repair cost, provided however, that OIL shall not be required to reimburse Contractor any amount greater than that which would have been due had such equipment/ tool lost and, therefore, calculated under sub-section (ii) herein below.
- ii) The Company shall at its option either reimburse the Contractor for the value of lost equipment/ tools as declared in the import invoices at the time of mobilization (or subsequent replacement/ addition) of the same equipment/ tools or CIF value as reflected in Proforma-A hereto whichever is lower (Plus customs duty paid by the Contractor for the equipment tool lost/ damaged, provided that the said custom duty was not borne by the Company and the Contractor produces the documentary evidence towards payment of customs duty) for any such loss of sub-surface equipment; less depreciation @ 3% per month from the date of start of this Contract with a maximum depreciation equivalent to 50% of CIF value as indicated by the Contractor or at its option replace similar equipment/ tools to the satisfaction of the Contractor and any transportation expenses incurred in connection herewith.

All such cost shall be payable by Company only after the Contractor produces documentary evidence that the particular equipment/ tool in question is not covered by Contractor's insurance policies. For such claims Contractor shall notify the Company within one month. The inspection/certification of recovered from down hole need to be made by the Company Representative before submission of the invoice by the Contractor.

33.0 INSPECTIONS, TESTS AND CERTIFICATION

33.1 The Contractor shall maintain at its sole cost test certification on all Contractor's Equipment and spare parts and ensure the operational integrity of the Equipment, particularly any load bearing or pressure containing Equipment. The Contractor shall maintain at its sole cost inspection certificate throughout the duration of the Contract.

33.2 The Company or its authorized representative shall be entitled to inspect and/or test the Equipment at Site where services are being performed. The

Company reserves the right to reject any and all Equipment, which is not in accordance with the specifications and provisions of the Contract.

34.0 WAIVERS AND 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 representatives of such party. The failure of the Company to execute any right of termination shall not act as a waiver or amendment of any right of the Company provided hereunder.

35.0 ENTIRE CONTRACT: The Contract contains the entire agreement between the Parties and supersedes any previous understandings, commitments, agreements or representations whatsoever, oral or written, pertaining to the subject matter hereof, provided that nothing in this Clause 35.0 (Entire Contract) shall have effect to exclude or restrict the liability of either Party for fraud or fraudulent misrepresentation.

36.0 INTEGRITY PACT: The integrity pact, duly signed by the authorized representatives of OIL and the Contractor, will form part of this Contract.

37.0 COMPREHENSIVE 'HSE' GUIDELINES:

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

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

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

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

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

37.6 Contractor has to ensure that all work is carried out in accordance with the Statute and SOP and for the purpose he may deploy adequate qualified and competent personnel for the purpose of carrying out the job in a safe manner. For work of a specified scope/nature, he should develop and provide to the mine owner a site specific code of practice in line.

37.7 All persons deployed by the Contractor for working in a mine must undergo Mines Vocational Training, initial medical examination, PME. They should be issued cards stating the name of the Contractor and the work and its validity period, indicating status of MVT, IME & PME.

- a. MVT can be arranged by OIL for the personnel working in rig.
- b. IME/PME has to be done as per the Mines Rule requirement in nearby authorized hospital.

37.8 The Contractor shall submit to DGMS returns indicating - Name of his firm, Registration number, Name and address of person heading the firm, Nature of work, type of deployment of work persons, Number of work persons deployed, how many work persons hold VT Certificate, how many work persons undergone IME and type of medical coverage given to the work persons.

37.9 The return shall be submitted quarterly (by 10th of April, July, October & January) for contracts of more than one year. However, for contracts of less than one year, returns shall be submitted monthly.

37.10 It will be entirely the responsibility of the Contractor/his Supervisor/representative to ensure strict adherence to all HSE measures and statutory rules during operation in OIL's installations and safety of workers engaged by him. The crew members will not refuse to follow any instruction given by Company's representative for safe operation.

37.11 Any compensation arising out of the job carried out by the Contractor whether related to pollution, Safety or Health will be paid by the Contractor only.

37.12 Any compensation arising due to accident of the Contractor's personnel while carrying out the job, will be payable by the Contractor.

37.13 The Contractor shall have to report all incidents including near miss to Installation Manager / departmental representative of the concerned department of OIL.

37.14 The Contractor has to keep a register of the persons employed by him/her. The Contractor's supervisor shall take and maintain attendance of his personnel every day for the work, punctually.

37.15 If the Company arranges any safety class / training for the working personnel at site (Company employee, Contractor worker, etc.) The Contractor will not have any objection to any such training.

37.16 The health checkup of Contractor's personnel is to be done by the Contractor in authorized Health Centers as per OIL's requirement & proof of such test(s) is to be submitted to OIL. The frequency of periodic medical examinations should be every five years for the employees below 45 years of age and every three years for employees of 45 years of age and above.

37.17 To arrange daily tool box meeting, Job Safety Analysis (for Critical Jobs) and regular site safety meetings and maintain records.

37.18 Records of daily attendance, accident report etc. are to be maintained in Form B, E, J (as per Mines Rules 1955) by the Contractor.

37.19 A Contractor employee must, while at work, take reasonable care for the health and safety of people who are at the employee's place of work and who may be affected by the employee's act or omissions at work.

37.20 A Contractor employee must, while at work, cooperate with his or her employer or other persons so far as is necessary to enable compliance with any requirement under the act or the regulations that is imposed in the interest of health, safety and welfare of the employee or any other person.

37.21 Contractor's arrangements for health and safety management shall be consistent with those for the mine owner.

37.22 In case Contractor is found non-compliant of HSE laws as required Company will have the right for directing the Contractor to take action to comply with the requirements, and for further non-compliance, the Contractor will be penalized prevailing relevant Acts/Rules/Regulations.

37.23 When there is a significant risk to health, environment or safety of a person or place arising because of a non-compliance of HSE measures Company will have the right to direct the Contractor to cease work until the non-compliance is corrected.

37.24 The Contractor should prevent the frequent change of his contractual employees as far as practicable.

37.25 The Contractor should frame a mutually agreed bridging document between OIL& the Contractor with roles and responsibilities clearly defined.

37.26 For any HSE matters not specified in the contract document, the Contractor will abide by the relevant and prevailing Acts/rules/ regulations/pertaining to Health, Safety and Environment.

38.0 LIMITATION OF LIABILITY:

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

- a) Neither the Contractor nor the Company (OIL) shall be liable to the other, whether in Contract, tort, or otherwise, for any consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, except

SECTION - II

SCOPE OF WORK

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1.0 SCOPE OF PROJECT

Oil India Ltd. is planning to drill & test 3 HPHT exploratory wells with a provision for drilling & testing of a 4th HPHT well in an onland exploration block named KG-ONN-2004/1, situated in East Godavari District of Andhra Pradesh. The wells are targeted to explore the lower cretaceous tight gas reservoirs present between 4500 to 6000 m TVD or deeper.

The first 2 HPHT wells of the 3 or 4 HPHT well campaigns will have multiple intervals perforated and tested in a 7" liner. The intervals will be perforated by means of TCP guns. It is proposed that permanent seal bore packers will be used to form the required downhole seal for testing operations. The 3rd & 4th HPHT well can be similar to the first 2 HPHT wells or a 4.1/2" Monobore completion, and accordingly the well test plan will be finalized.

In this regard, OIL India invites International Competitive Bids (ICB) from competent and experienced contractors for supply of permanent seal bore packer materials and personnel services for conducting well tests on 2 (two) HPHT exploratory wells with 7" Liner completion with a provision for supply of additional materials & services for 1 or 2 additional HPHT wells in KG Basin onshore area, East Godavari District, Andhra Pradesh. In addition to permanent packers, prospective bidders are also required to quote for following equipment / services:

- Cement Retainers, Bridge Plugs and Milling Assemblies
- Wellbore Cleanout and Liner Top Negative Test Equipment
- Service Packers with Unloader Valves

These exploratory wells are expected to be critical with regards to pressure, temperature and corrosive conditions. The packers used in these well tests will be subjected to extreme conditions which will require a high level of inspection and quality assurance. The materials used in the construction of this equipment will demand stringent make-up and handling procedures which must be defined as per Section 7 of this document.

Permanent seal bore packers will be used as part of a "Sting Through" TCP (Tubing Conveyed Perforating) system as depicted in Appendix 1. The packers will be set on tubing at depths ranging between 5,000 and 6,000 m TVD in clear high density CaCl-CaBr or Cesium Formate kill fluid (**Please note that CaCl-CaBr brine is the primary brine option, however Cesium Formate brine has been kept as a contingent brine option if kill fluid density in excess of 15 ppg is required for killing the well**). The packer will be used as the primary depth reference device for positioning the TCP on depth. 3 3/8" TCP guns will be attached to the bottom of a locator seal assembly deployed on a 3 1/2" 15.8 ppf T-95 test string with Tenaris Wedge 533 (TSH 533) connections. The test string will be spaced out to land in compression with a SCSSV and BOP slick joint being used at surface for hanging the test string and maintaining pressure control.

The TCP guns stung through the packer will then be positioned on depth by landing the locator seal assembly on top of the seal bore packer. The tubing will first be displaced to a light density fluid in effort to create the desired underbalanced condition by pulling the locator seal assembly out of the packer and circulating down the tubing. The tubing will then be landed on the permanent seal bore packer. Applied tubing pressure will be used to detonate the perforating guns.

Down hole, annulus pressure operated test tools will be used to control the flow of the test and provide the means to circulate the well dead after the test. Pressure

testing the test string and down hole shut in devices are additional requirements of the test string. These conditions make up some of the load cases the permanent seal bore packer will be subjected to.

At the end of each of the tests a D-FIT (Diagnostic Fracture Injection Test) will be performed. This is sometimes referred to as a Mini Frac test. The D-FIT will be pumped with high surface pressures but with low rates (~20 bpm). This condition will generate a substantial ΔT effect on the tubing. WellCat modeling results presented in Section 2 will suggest a 40 ft SBE (Seal Bore Extension) will be required to meet the tubing length change requirements. In reverse, the high surface flowing temperatures create high compressive forces on the packer which are also presented in Section 2.

A major consideration in this well test procedure is the ability to regain access to the intervals that have been previously tested and isolated. The depth and primarily the BHT (Bottom Hole Temperature) create a number of challenges and limitations as to how this can be accomplished. It is therefore proposed to isolate the tested zones by setting a 4.1/2" HPHT CIBP (Cast Iron Bridge Plug) within the seal bore extension (4" ID) of the permanent packer after the completion of the well test. This will effectively convert the packer to a bridge plug for the purpose of zonal isolation. To regain access to the isolated zone, it is proposed to perforate or puncture about 10-20 ft of packer seal bore extension above the 4.1/2" HPHT CIBP set within it. This zone isolation concept as shown in Appendix 1 has been designed with the intention that it will provide HPHT isolation while allowing for easy access to previously tested intervals, if required.

3 (Three) cased hole DSTs per well are planned for the first 2 (Two) HPHT wells. The DSTs will be approximately 15 days in duration which includes the shut in periods. After the completion of the DSTs, the tested intervals may be commingled for a long term flow test which could run for more than 12 months. Each tested zone will be commingled with the zone below it before it is isolated. For example:- Zone 1 is tested and isolated by setting 4.1/2" HPHT CIBP in Packer 1, subsequently Packer 2 is set and Zone 2 is tested. Before isolating Zone 2, Zone 1 will be commingled with Zone 2 by perforating / puncturing the seal bore extension of Packer 1, and then both the zones will be isolated together by setting another 4.1/2" HPHT CIBP within the seal bore extension of Packer 2. The same approach will be followed as we move up while testing multiple zones within the 7" Liner.

At the end of the long term flow test, the 7" Liner completion wells may be re-completed as producers for commercial production. Standard low alloy carbon steel packers will have a short service life in the anticipated HPHT and corrosive environment, and they will not be suitable for long term commercial production. Therefore, prior to commencing commercial production, a CRA (Corrosion Resistant Alloy) packer with seal bore extension will be set within the 7" Liner, and a CRA seal assembly will be lowered along with production tubing to establish seal across the CRA packer. The CRA packer with seal bore extension and CRA seal assembly must be constructed from the appropriate nickel based alloy to last the life of the well which is estimated at 40 years. CRA packer with seal bore extension and CRA seal assembly has been kept as OPTIONAL items which may be ordered depending on the actual results after the DSTs.

2.0 TEST PACKER LOAD ANALYSIS

In each of the three tests to be conducted per well, a D-FIT (Diagnostic Fracture Injection Test) will be performed. This is sometimes referred to as a Mini Frac. The

D-FIT will be pumped with high surface pressures but with low rates (~20 bpm). With a maximum surface pressure of 14,000 psi, tremendous movement and forces will be generated by the four basic effects (temperature, piston, ballooning and buckling).

Small fracturing stimulations with proppant may also be planned. The maximum proppant density is 5 ppg for a total blended density of 10.89 ppg. More of an impact than frac fluid density is the frac fluid temperature. It can be noted in the described load cases that frac fluids having a surface temperature 68°F and 77°F have been modeled. The 5°F difference does have an impact however in the supplied information it can be noted that it doesn't change actual equipment requirements.

The above described conditions will necessitate a SBE (Seal Bore Extension) below the packer 40 ft in length. The depth of the well is such that bottom hole movement must be accommodated in order to control top joint tension with the test string being utilized. Landmark's WellCat software was used to conduct tri axial stress analysis on the test string and load analysis on the packer. The following are tables and figures from that model which detail the conditions the tubing and packer will be subjected to. Table 1 will define the compressive axial packer loads created by the specified load cases with regards to "packer to casing" force as well as "tubing to packer" forces. Figure 1 depicts the tubing length change resulting from the specified load cases that generate shortening of the string. To summarize the combined pressure and axial loads on the packer, Figure 2 is a WellCat plot with the load results presented in graph format. It should be noted by bidders that the capabilities of the quoted packer must meet or exceed the loads defined in this section.

Table 1: Test Packer Axial Loads

Load	Tubing-to-Packer Force (lbf)	Axial Load		Annulus Pressure		Temp (°F)	Packer-to-Casing Force (lbf)
		Above (lbf)	Below (lbf)	Above (psi)	Below (psi)		
Initial Conditions	20001	-93003		16143.35		453.90	20001
15 kpsi Pressure Test	0	-58276		21143.35		453.90	78728
15 kpsi 10.89 ppg Frac 68oF	0	-136111		21626.68		131.40	-80788
15 kpsi 10.89 ppg Screen Out 68oF	0	-140909		21626.68		131.40	-90905
15 kpsi 10.89 ppg Frac 77oF	0	-136154		21595.98		137.80	-81171
15 kpsi 10.89 ppg Screen Out 77oF	0	-140864		21595.98		137.90	-91102
2 Day FB 20 MMscf/d 200 bwpd/bopd	161725	-178722		15489.09		458.50	273578
2 Day FB 45 MMscf/d 450 bwpd/bopd	141551	-197711		15244.89		459.40	168494
2 Day FB 15 MMscf/d 180 bwpd/bopd	179931	-170965		15597.99		457.60	347566
2 Day FB 12 MMscf/d 100 bwpd/bopd	99547	-138346		15639.09		458.20	166858
180 Day Prdn Test 20 MMscf/d 2000 bwpd	198174	-222259		15029.69		459.60	290701
Hot Shut In	111823	-160409		15367.37		458.50	155906
Hot Tubing Leak	213316	-229298		26437.37		458.50	431704
Tubing Evacuation	165408	-117945		16143.35		453.90	419421
85 kip Overpull	N/A	11997		16143.35		453.90	N/A

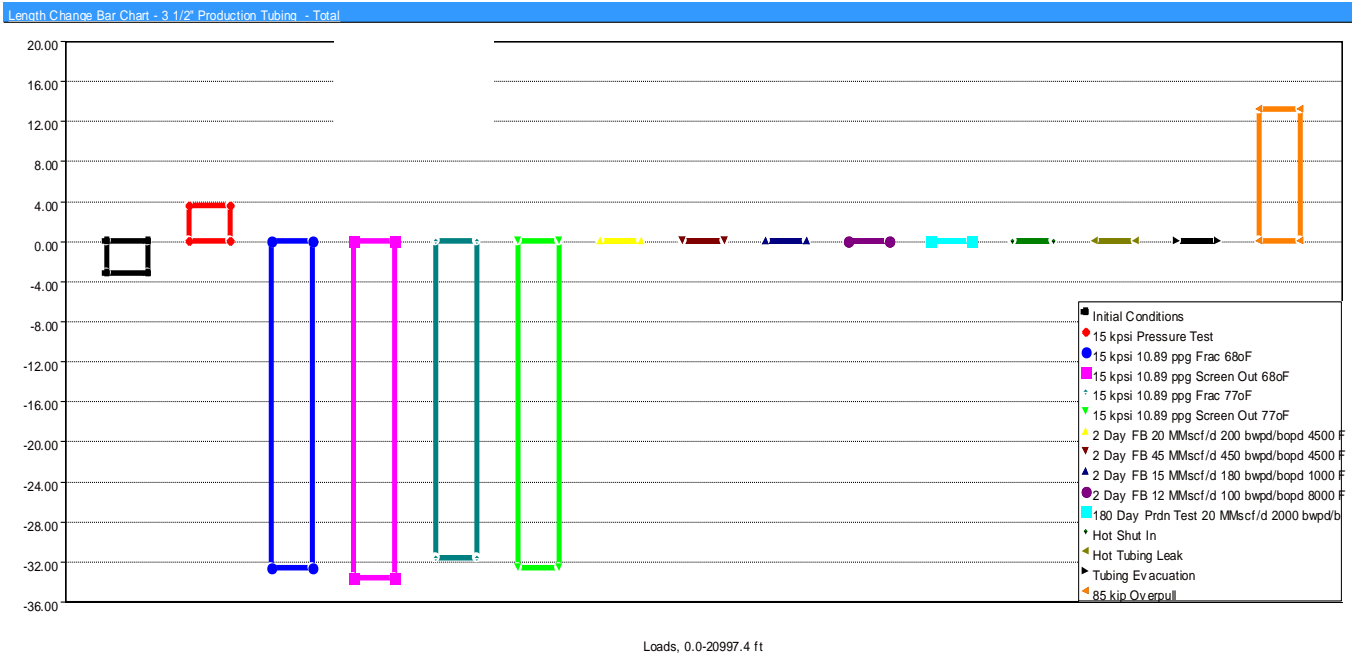
Negative forces are in the upward direction.

It should be noted that where possible and practical, back pressure has been applied to the test string/ production casing annulus in effort to control the movement of the seal assembly during the stimulations. At this time 5,000 psi applied pressure to this annulus yields the most favourable results with regards to limiting the seal assembly movement without inducing other pressure related stress.

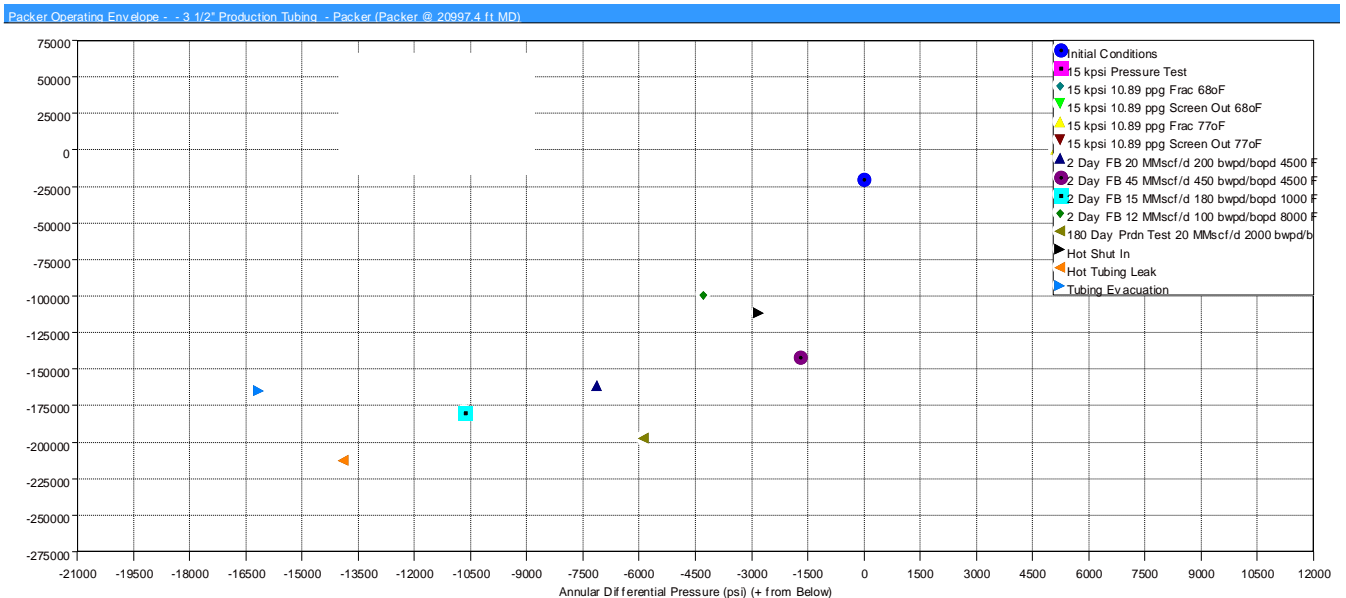
The model results assume that the tubing was initially landed with 20 kip set down weight. This is a lower than average number for this type of application as more set

down weight would mean less seal assembly movement however the compressive loads associated with the hot flow back conditions would exceed what most packers are capable of withstanding.

Figure 1: Tubing Length Change Chart Figure



2: Packer Load Analysis



3.0 WELL TEST PACKER & ACCESSORIES TECHNICAL SPECIFICATIONS

The Scope of supply for this RFQ covers the manufacturing and supply of **Permanent Packer Equipment & Accessories** as follows:

3.1 CRA Production Packer Assembly

3.1.1 7.0" CRA Permanent Production Packer

Casing: 7" 35 ppf Q-125

Lower Bore: 4.00" minimum (non-sealing preferred)

Seal Element Material: TFE/P Fluoroelastomer (Aflas ®)

Material: Nickel alloy flow wet as per specifications in Section 11 **including** a full nickel alloy slips of same CRA material as the packer. Slips should be suitable for rated pressure & temperature and 7" 35 ppf Q125 liner material.

Bottom Connection: Premium box with metal to metal radial seal (i.e. Vam Top)

Differential Pressure rating As a Packer: 15,000 psi

Differential Pressure Rating When Converted To A bridge plug: Minimum 10,000 psi

Temperature Rating: 450°F

ISO 14310 Test Validation Requirement: V1

Deployment Method: 3 ½" test string.

Setting Method: Hydraulic setting tool deployed on 3 ½" test string.

Additional Requirements: Keyed to prevent rotation while milling.

Torque Requirements: 10,000 ft-lbs

3.1.2 CRA Seal Bore Extension

Length: 40.0 ft

ID: 4.000" (nominal)

OD: >5.625" (as required to meet the differential pressure requirement)

Top Connection: Premium pin with metal to metal radial seal (i.e. Vam Top)

Bottom Connection: Premium pin with metal to metal radial seal (i.e. Vam Top)

Differential Pressure Rating: 15,000 psi

Temperature Rating: 450°F

Material: Nickel alloy as per specifications in Section 11

Note: Assembly will require a full shop test from top of packer to bottom of the SBE at least at 12,000 psi

3.1.3 4.0" CRA Wireline Re-entry Guide

Length: 1.5 ft

ID: 4.000" nominal

OD: 5.875" (as required to meet the differential pressure requirement)

Connection: Premium box with metal to metal radial seal (i.e. Vam Top)

Material: Nickel alloy as per specifications in Section 11

Note: Fluted for fluid bypass. OD to exceed that of the packer thereby acting as gauge ring for the packer during deployment

3.1.4 CRA Locator Seal Assembly with Redressing Kit

Length: +/- 40.0 ft. (as required to fit packer and SBE assembly)

Configuration: Single piece design and constriction excluding locator sub.

Differential Pressure Rating: 15,000 psi

Temperature Rating: 450°F

ISO 14310 Test Validation Requirement: V1 or equivalent for the conditions

Seals: 3 sets non elastomeric Vee type

Seals: Must be separated in a manner which will not allow sequential loading during seal bore engagement

Debris Barrier: 3 sets non elastomeric type. Positioned as follows: below seal stack, above seal stack and under the locator sub.

ID: 2.548" nominal

OD: 4.000" Nominal

Locator OD: 5.750" Nominal, fluted for fluid bypass

Top Connection: 3 ½" 15.8 ppf Tenaris 533 Box

Bottom Connection: Premium pin with metal to metal radial seal capable of accommodating a test sub suitable for a 15,000 psi shop test (i.e. Vam Top)

Material: Nickel alloy as per specifications in Section 11

Note: Fluted for fluid bypass.

3.1.5 Seal Assembly to Tail Pipe Adaptor

Length: 1.5 ft

ID: 2.548" nominal

OD: 4.000" Nominal

Top Connection: Premium box with metal to metal radial seal (i.e. Vam Top)

Bottom Connection: 2 ⅞" 6.5 ppf EUE Pin

Material: L-80

3.2 Test Packer Assembly

3.2.1 7.0" Permanent Test Packer

Casing: 7" 35 ppf Q-125

Lower Bore: 4.00" minimum (non sealing preferred)

Seal Element Material: TFE/P Fluoroelastomer (Aflas ®)

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements. Low alloy carbon steel materials to meet specifications in Section 11

Bottom Connection: Premium box with metal to metal radial seal (i.e. Vam Top)

Differential Pressure Rating As A Packer: 15,000 psi

Differential Pressure Rating When Converted To A Bridge Plug: Minimum 10,000 psi

Temperature Rating: 450°F

ISO 14310 Test Validation Requirement: V1

Deployment Method: 3 ½” test string.

Setting Method: Hydraulic setting tool deployed on 3 ½” test string.

Additional Requirements: Keyed to prevent rotation while milling.

Torque Requirements: 10,000 ft-lbs

3.2.2 Seal Bore Extension

Length: 40.0 ft

ID: 4.000” (nominal)

OD: >5.625” (as required to meet the differential pressure requirement)

Top Connection: Premium pin with metal to metal radial seal (i.e. Vam Top)

Bottom Connection: Premium pin with metal to metal radial seal (i.e. Vam Top)

Differential Pressure Rating: 15,000 psi

Temperature Rating: 450°F

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements. Low alloy carbon steel materials to meet specifications in Section 11

Note: Assembly will require a full shop test from top of packer to bottom of the SBE at least at 12,000 psi.

3.2.3 4.0” Wireline Re-entry Guide

Length: 1.5 ft

ID: 4.000” nominal

OD: 5.875” (as required to meet the differential pressure requirement)

Connection: Premium box with metal to metal radial seal (i.e. Vam Top)

Material: L-80. Low alloy carbon steel materials to meet specifications in Section 11

Note: Fluted for fluid bypass. OD to exceed that of the packer thereby acting as gauge ring for the packer during deployment

3.2.4 Locator Seal Assembly with Redress Kit

Length: +/- 40.0 ft. (as required to fit packer and SBE assembly)

Configuration: Single piece design and constriction excluding locator sub

Differential Pressure Rating: 15,000 psi

Temperature Rating: 450°F

ISO 14310 Test Validation Requirement: V1 or equivalent for the conditions

Seals: 3 sets non elastomeric Vee type

Seals: Must be separated in a manner which will not allow sequential loading during seal bore engagement

Debris Barrier: 3 sets non elastomeric type. Positioned as follows: below seal stack, above seal stack and under the locator sub

ID: 2.548" nominal

OD: 4.000" Nominal

Locator OD: 5.750" Nominal, fluted for fluid bypass

Top Connection: 3 ½" 15.8 ppf Tenaris 533 Box

Bottom Connection: Premium pin with metal to metal radial seal capable of accommodating a test sub suitable for a 15,000 psi shop test (i.e. Vam Top)

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements. Low alloy carbon steel materials to meet specifications in Section 11

Note: Fluted for fluid bypass. OD to exceed that of the packer thereby acting as gauge ring for the packer during deployment

3.2.5 Seal Assembly To Tail Pipe Adaptor

Length: 1.5 ft

ID: 2.548" Nominal

OD: 4.000" Nominal

Top Connection: Premium box with metal to metal radial seal (i.e. Vam Top)

Bottom Connection: 2 ⅞" 6.5 ppf EUE Pin

Material: L-80

3.3 Zone Isolation System

3.3.1 4.5" HPHT Cast Iron Bridge Plug

Size: Suitable To Set In 4.00" SBE

Casing: Equivalent To 4.50" 11.6 ppf or 5.0" 24.2 ppf casing

Differential Pressure Rating: 12,000 psi (Above & Below)

Temperature Rating: 450°F

ISO 14310 Test Validation Requirement: V0

Packing Element Material: TFE/P Fluoroelastomer (Aflas ®)

Body Material: Low alloy carbon steel as required to meet the pressure and temperature requirements. Low alloy carbon steel materials to meet specifications in Section 11

Deployment & Setting Method: Wireline with 450 F rated HT WLPSA (Wireline Pressure Setting Assembly)

Slips: Wicker, suitable to be set with SBE material (ex. Q-125 or equivalent material).

Note: 4.5" HPHT Packer converted to Bridge Plug is also acceptable for this item.

3.4 Test Packer and HPHT Bridge Plug Setting Tools

3.4.1 7" Test Packer Wireline Pressure Setting Assembly (WLPSA)

Deployment Method: Electric wireline

Type: Explosive charge

Temperature Requirement: 450°

Top Connection: To be compatible with standard wireline connections, bidder to supply any additional adaptors / thread connectors as required

Note: To be supplied with all required explosive charges, igniter, firing head etc. Bidder has to deliver the explosives CIF, Chennai port in India, and Company will arrange for custom clearance and in-country storage / transportation. The explosives will be handed over at wellsite when required.

3.4.2 7" Test Packer Wireline Adaptor Kit (WLAK)

Deployment Method: Wireline

Suitable for use on Baker E5-20 or E4-20 HPHT or equivalent WLPSA (Wireline Pressure Setting Assembly)

3.4.3 7" Test Packer Hydraulic Setting Tool with Redressing Kits

Deployment Method: 3.1/2" Drill Pipe (Connection TBD) or Test String

Setting Type: Differential hydraulic pressure

Temperature Requirement: 450°F

Top Connection: 3 1/2" 15.8 ppf Tenaris 533 Box

Release method: Right Hand Rotation.

Fill/Drain System: Must allow for the test string to fill while in the hole. Must allow for forward or reverse circulation prior to setting the packer then use a ball and seat to apply differential pressure to the setting tool.

Note: Must utilize a seal assembly stung into the packer bore that will facilitate an annular pressure test of the packer after it has been set & before the setting tool is released from the packer.

3.4.4 4.5" HPHT Bridge Plug Wireline Pressure Setting Assembly (WLPSA)

Deployment Method: Electric wireline

Type: Explosive charge

Temperature Requirement: 450°F

Top Connection: To be compatible with standard wireline connections, bidder to supply any additional adaptors / thread connectors as required

Note: To be supplied with all required explosive charges, igniter, firing head etc. Bidder has to deliver the explosives CIF, Chennai port in India, and

Company will arrange for custom clearance and in-country storage / transportation. The explosives will be handed over at wellsite when required.

3.4.5 4.5” HPHT Bridge Plug Wireline Adaptor Kit (WLAK)

Deployment Method: Wireline

Suitable for use on Baker E5-10 or equivalent WLPSA (Wireline Pressure Setting Assembly)

3.5 Quantities for Well Test Packer and Accessories

The quantities mentioned below are estimated as per the current well planning. Quantities for first 2 HPHT wells + Quantity for Contingency may be ordered initially. However, provision has been kept to order additional equipment for 3rd and/or 4th Well at a later stage, if it is decided to complete them as 7” Liner completion. CRA production Packer assemblies will also be ordered after Well Test results.

Sl No	Items	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
3.1	CRA Production Packer Assembly				
3.1.1	7” CRA Permanent Production Packer	2	1	2	0
3.1.2	4.0” CRA Seal Bore Extension	2	1	2	0
3.1.3	4.0” CRA Wireline Re-entry Guide	2	1	2	0
3.1.4	4.0” CRA Locator Seal Assembly	2	1	2	0
3.1.4	Redressing Kit for 4.0” CRA Locator Seal Assembly .RK	2 Sets	0	2 Sets	0
3.1.5	4.0” Seal Assembly To Tail Pipe Adaptor	2	1	2	0
3.2	Test Packer Assembly				
3.2.1	7.0” Permanent Test Packer	6	2	6	0
3.2.2	4.0” Seal Bore Extension	6	2	6	0
3.2.3	4.0” Wireline Re-entry Guide	6	2	6	0
3.2.4	4.0” Locator Seal Assembly	2	1	0	0
3.2.4	Redressing Kit for 4.0” Locator Seal Assembly .RK	4 Sets	2 Sets	6 Sets	0
3.2.5	4.0” Seal Assembly To Tail Pipe Adaptor	2	1	0	0
3.3	Zone Isolation System				
3.3.1	4.5” HPHT Cast Iron Bridge Plug	4	2	4	0
3.4	Test Packer & HPHT Bridge Plug Setting Tools				
3.4.1	7” Test Packer WLPSA	6 Runs	2 Runs	6 Runs	0
3.4.2	7” Test Packer WLAK	6 Runs	2 Runs	6 Runs	0
3.4.3	7” Test Packer Hydraulic Setting Tool	6 Runs	2 Runs	6 Runs	0

3.4.4	4.5" HPHT Bridge Plug WLPSA	4 Runs	2 Runs	4 Runs	6 Runs
3.4.5	4.5" HPHT Bridge Plug WLAK	4 Runs	2 Runs	4 Runs	0

Table 3.1: Well Test Packer Quantities

Note A: Additional Items/Additional quantities that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder Shall Provide Packer Setting & Redressing Expert for setting of 6 nos of packers in two (2) nos of exploratory drilling wells with 3 testing zones per well. A call-out notice of 10 days will be given for mobilization of the packer setting expert.

Bidder should keep one additional set of Test Packer and/or HPHT Bridge Plug Setting Tools for contingency at all times to ensure uninterrupted operations.

Exact specifications for 3.1/2" and 2.3/8" Drill pipes will be provided at the time of LOA. Bidder will be responsible to provide all required crossovers, as required to accomplish the operational objectives for every tool provided by the bidder.

OIL may procure all the items listed above or may procure selectively.

Note B:

1. Packer shall be designed & manufactured conforming to API 11D1 Std and Copy of API certificate along with bid to be submitted.
 2. Bidder to provide detail list of offered items, relevant drawings, product catalogues, storing procedures, setting method / procedures, redressing procedures of TSA along with the bid. Bids without relevant documents shall be liable for rejection.
 3. Packers shall meet minimum Grade V1 design validation test requirements conforming to ISO 14310 / API 11D1 and bidder to provide Packer Operating Envelope along with the technical bid. The test certificate can also be provided before the delivery of the Packer, however, the bidder has to commit to meet the minimum packer operating envelop requirements as indicated in Test Packer Load Analysis.
 4. The materials shall be inspected by any of OIL's approved Third party Inspection Agency (viz. M/S Lloyds or M/S Bureau Veritas or M/S RITES or M/S DNV or M/S IRS only) covering the following aspects to ensure conformance to ISO 14310/ API 11D1 Standard (latest edition).
 - * Metallurgy
 - * Dimensions & Qty.
 - * Elastomers.
 - * Thread.
- 4.1 Necessary supporting test certificates from original Elastomer manufacturer shall be submitted to the third party inspector for verification. The verified test certificates shall be supplied to OIL in original. Packers without test certificates for the Elastomers shall not be accepted by OIL. Third party inspection report shall be supplied along with the materials; failing which materials shall not be accepted by OIL.

4.2 The TPI charges shall be quoted separately. OIL reserves the right to depute OIL's Engineer for inspection of materials at the manufacturing facility along with the TPI agency and the supplier has to arrange for the joint inspection accordingly by informing atleast 10 days ahead. However, inspection by OIL's Engineer will remain at its discretion.

5. Manufacturer's **name, Packer model and OIL's Purchase Order No.** must be die-stamped/stenciled on the body of each packer.
6. OIL reserves the right to call supplier's service engineer for setting of packers in field at KG Basin. Bidder shall accordingly arrange for deputing its expert to execute the packer setting/ redressing / running in job, within a notice period of 10 days form OIL.

4.0 CEMENT RETAINERS, BRIDGE PLUGS AND MILLING ASSEMBLIES

4.1 Cement Retainers & Accessories

4.1.1 7" Mechanical Set Cement Retainer

Casing: 7" 35 ppf Q-125

Differential Pressure Rating: 10,000 psi

Temperature Rating: 400°F

Packing Element Material: HNBR or NBR, HNBR preferable

Valve Seal Material: As required to meet the pressure and temperature conditions

O-ring Material: HNBR or NBR, HNBR preferable. All o-rings to be equipped with suitable non elastomeric back-up rings

Deployment & Setting Method: Run on drill pipe and set with right hand rotation

Slips: Wicker, suitable for Q-125 casing

4.1.1.1 7" Mechanical Cement Retainer Running/ Setting Tool

Casing: 7" 35 ppf Q-125

Differential Pressure Rating: 10,000 psi

Temperature Rating: 400°F

Stinger Seal Material: As required to meet the pressure and temperature

Deployment & Setting Method: Run on 3.1/2" drill pipe and set with right hand rotation

Drag Block or Bow Spring: Drag block type

Top Connection: 2.7/8" EUE

4.1.2 9.625" Mechanical Set Cement Retainer

Casing: 9.625" 53.5 ppf P-110 & 9.875" 65.3 ppf C-110

Differential Pressure Rating: 8,000 psi

Temperature Rating: 350°F

Packing Element Material: HNBR or NBR, HNBR preferable

Valve Seal Material: As required to meet the pressure and temperature conditions

O-ring Material Conversion Kits To Bridge Plug: HNBR or NBR, HNBR preferable

Deployment & Setting Method: Run on 5.1/2" drill pipe and set with right hand rotation

Slips: Wicker, suitable for P-110 & C-110 casing

4.1.2.1 9.625" Mechanical Cement Retainer Running/ Setting Tool

Casing: 9.625" 53.5 ppf P-110 & 9.875" 65.3 ppf C-110

Differential Pressure Rating: 8,000 psi

Temperature Rating: 350°F

Stinger Seal Material: As required to meet the pressure and temperature

Deployment & Setting Method: Run on 5.1/2" drill pipe and set with right hand rotation

Drag Block or Bow Spring: Drag block type

Top Connection: 3.50" EUE

4.1.2.2 9.625" Wireline Set Cement Retainer Stinger

Differential Pressure Rating: 8,000 psi

Temperature Rating: 350°F

Stinger Seal Material: As required to meet the pressure and temperature

Deployment Method: Run on 5.1/2" drill pipe

Drag Block or Bow Spring: Bow spring centralizer acceptable

Top Connection: 3.50" EUE

Note: Must be equipped with a positive latch capability to allow for over pull when closing the retainer valve

4.1.2.3 9.625" Cement Retainer To Cast Iron Bridge Plug Conversion Kit

Kit Includes: Guide, O-ring suitable for conditions, plug and set screws (Include and describe other parts if required)

4.1.2.4 9.625" Mechanical Cement Retainer To Wireline Set Conversion Kit

Kit Includes: Guide, O-ring suitable for conditions, plug and set screws (Include and describe other parts if required)

4.1.2.5 9.625" WLAK (Wireline Adaptor Kit) For 9.625" Cement Retainer

Suitable for use on Baker E4-20 or equivalent WLPSA (Wireline Pressure setting Assembly)

4.1.2.6 9.625" Test Packer Wireline Pressure Setting Assembly (WLPSA)

Deployment Method: Electric wireline

Type: Explosive charge

Temperature Requirement: 350°F

Top Connection: To be compatible with standard wireline connections, bidder to supply any additional adaptors / thread connectors as required

Note: To be supplied with all required explosive charges, igniter, firing head etc. Bidder has to deliver the explosives CIF , Chennai port in India, and Company will arrange for custom clearance and in-country storage / transportation. The explosives will be handed over at wellsite when required.

4.1.3 13.625” Mechanical Set Cement Retainer

Casing: 13.625” 88.2 ppf C-110

Differential Pressure Rating: 3,000 psi

Temperature Rating: 300°F

Packing Element Material: HNBR or NBR, HNBR preferable

Valve Seal Material: As required to meet the pressure and temperature conditions

O-ring Material Conversion Kits To Bridge Plug: NBR or HNBR, HNBR preferable

Deployment & Setting Method: Run on 5.1/2” drill pipe and set with right hand rotation

Slips: Wicker, suitable for C-110 casing

4.1.3.1 13.625” Mechanical Cement Retainer Running/ Setting Tool

Casing: 13.625” 88.2 ppf C-110

Differential Pressure Rating: 3,000 psi

Temperature Rating: 300°F

Stinger Seal Material: As required to meet the pressure and temperature

Deployment & Setting Method: Run on 5.1/2” drill pipe and set with right hand rotation

Drag Block or Bow Spring: Drag block type

Top Connection: 3.50” EUE

4.1.3.2 13.625” Cement Retainer To Cast Iron Bridge Plug Conversion Kit

Kit Includes: Guide, O-ring suitable for conditions, plug and set screws (Include and describe other parts if required)

4.2 Mechanical Set Retrievable Bridge Plugs & Accessories

4.2.1 9.625” Mechanical Set Retrievable Bridge Plug

Casing: 9.625” 53.5 ppf P-110 & 9.875” 65.3 ppf C-110

Differential Pressure Rating: 8,000 psi

Temperature Rating: 350°F

Packing Element Material: HNBR or NBR (HNBR preferable)

O-ring Material: HNBR or NBR (HNBR preferable). All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

ISO 14310 Test Validation Requirement: V6 minimum (V3 preferable)

Deployment Method: Set with Drill Pipe or 3 ½" Test String

Setting Method: Run on 5.1/2" Drill pipe or 3.1/2" Drill pipe or 3.1/2" Test String, mechanically set with right hand rotation

Equalizing Method: Set down to shear open valve or other suitable method

Releasing Method: Right hand rotation

Emergency Release Method: Right hand rotation

Slips: Suitable for 9.625" 53.5 ppf P-110 & 9.875" 65.3 ppf C-110 casing

Drag Block or Bow Spring: Drag block type

4.2.1.1 9.625" Mechanical Set Retrievable Bridge Plug Setting Tool

Casing: 9.625" 53.5 ppf P-110 & 9.875" 65.3 ppf C-110

Differential Pressure Rating: 8,000 psi

Temperature Rating: 350°F

Deployment & Setting Method: Run on 5.1/2" Drill pipe or 3.1/2" Drill pipe or 3 ½" Test String and set with right hand rotation

Top Connection: 3.50" EUE

4.2.1.2 9.625" Bridge Plug Retrieving Tool

Casing: 9.625" 53.5 ppf P-110 & 9.875" 65.3 ppf C-110

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Deployment Method: Run on 5.1/2" Drill pipe or 3.1/2" Drill pipe or 3 ½" Test String

Latching Method: Set down auto-latch or J-slot or other suitable mechanism

Emergency Release Method: Right hand rotation

Top Connection: 3.50" EUE Box

Bottom Guide: Cut lip or saw tooth

Note: No seal, open for circulation when latch is engaged

4.3 Speciality HPHT Drillable Bridge Plugs

4.3.1 4.5" HPHT Drillable Bridge Plug

Casing: 4.50" 18.8 ppf Q-125

Differential Pressure Rating: 15,000 psi (Above & Below)

Temperature Rating: 450°F

Packing Element Material: TFE/P Fluoroelastomer (Aflas ®)

Body Material: **Drillable cast iron or low alloy carbon steel

Deployment & Setting Method: Wireline with HT WLPSA (Wireline Pressure Setting Assembly)

Slips: Wicker, suitable for Q-125 casing

**** Bidder must provide documentation that the quoted drillable bridge material is suitable for service in the well environment described in Section 9.0**

4.3.1.1 4.5" HPHT Drillable Bridge Plug Wireline Adaptor Kit (WLAK)

Suitable for use on Baker E5-10 or equivalent WLPSA (Wireline Pressure Setting Assembly)

4.3.1.2 4.5" HPHT Drillable Bridge Plug Wireline Pressure Setting Assembly (WLPSA)

Deployment Method: Electric wireline

Type: Explosive charge

Temperature Requirement: 450°F

Top Connection: To be compatible with standard wireline connections, bidder to supply any additional adaptors / thread connectors as required

Note: To be supplied with all required explosive charges, igniter, firing head etc. Bidder has to deliver the explosives CIF Chennai port in India, and Company will arrange for custom clearance and in-country storage / transportation. The explosives will be handed over at wellsite when required.

4.3.2 7" HPHT Drillable Bridge Plug

Casing: 7" 35 ppf Q-125

Differential Pressure Rating: 15,000 psi (Above & Below)

Temperature Rating: 450°F

Packing Element Material: TFE/P Fluoroelastomer (Aflas ®)

Body Material: **Drillable cast iron or low alloy carbon steel

Deployment & Setting Method: 3.1/2" Drill Pipe / 3.1/2" Test String OR Wireline with HT WLPSA (Wireline Pressure Setting Assembly)

Slips: Wicker, suitable for Q-125 casing

**** Bidder must provide documentation that the quoted drillable bridge material is suitable for service in the well environment described in Section 9.0**

4.3.2.1 7" HPHT Drillable Bridge Plug Hydraulic Setting Tool with Redressing Kits

Deployment Method: 3.1/2" Drill Pipe or 3.1/2" Test String

Setting Type: Differential hydraulic pressure

Temperature Requirement: 450°F

Top Connection: 3 1/2" 15.8 ppf Tenaris 533 Box

Release method: Right Hand Rotation.

Fill/Drain System : Must allow for the test string to fill while in the hole. Must allow for forward or reverse circulation prior to setting the bridge plug then use a ball and seat to apply differential pressure to the setting tool.

4.3.2.2 7" HPHT Drillable Bridge Plug Wireline Adaptor Kit (WLAK)

Suitable for use on Baker E5-20 or E4-20 HPHT or equivalent WLPSA (Wireline Pressure Setting Assembly)

4.3.2.3 7" HPHT Drillable Bridge Plug Wireline Pressure Setting Assembly (WLPSA)

Deployment Method: Electric wireline

Type: Explosive charge

Temperature Requirement: 450°F

Top Connection: To be compatible with standard wireline connections, bidder to supply any additional adaptors / thread connectors as required

Note: To be supplied with all required explosive charges, igniter, firing head etc. Bidder has to deliver the explosives CIF, Chennai port in India, and Company will arrange for custom clearance and in-country storage / transportation. The explosives will be handed over at wellsite when required.

4.4 Milling and Retrieving Assemblies for Test Packer and Bridge Plugs

4.4.1 Milling and Retrieving Assembly for 7" Test Packers

Casing: 7" 35 ppf Q-125

Temperature Rating: 450°F

Packer: 7" Test Packer as per Item# 3.2.1 with a Seal Bore as per Item# 3.2.2. The Packer may also have a 4.5" CIBP as per Item# 3.3.1 set within the Seal Bore.

Completion Fluid: CaBr-CaCl Brine

Description:** Complete assembly with proper Milling Shoe and Overshot / Grapple / Spear as required to mill the slips and grab the fish for safe retrieval.

Top Connection: 4.5" NC-50 Box

Drill Pipes: 3 ½" Drill Pipes with 4.3/4" Drill Collars will be supplied by OIL

X-Overs: All required X-Overs to be supplied by Bidders.

****Bidder must provide adequate documentation including case histories showing successful milling/retrieval of 7" Test Packer at approximately 4500m or deeper depths**

4.4.2 Milling and Retrieving Assembly for 4.5” Drillable Bridge Plug

Casing: 4.50” 18.8 ppf Q-125

Temperature Rating: 450°F

Bridge Plug: 4.5” HPHT Drillable Bridge Plug as per Item# 5.4.1

Completion Fluid: CaBr-CaCl Brine

Description:** Complete assembly with proper Milling Shoe to mill the slips

Top Connection: 2 3/8” SL H-90 Box

Drill Pipes: 3 ½” and 2.3/8” Drill Pipes with 3” to 3.1/4” Drill Collars will be supplied by OIL

X-Overs: All required X-Overs to be supplied by Bidders.

****Bidder must provide adequate documentation including case histories showing successful milling of HPHT Drillable Plug at approximately 4500m or deeper depths**

4.4.3 Milling and Retrieving Assembly for 7” Drillable Bridge Plug

Casing: 7” 35 ppf Q-125

Temperature Rating: 450°F

Bridge Plug: 7” HPHT Drillable Bridge Plug as per Item# 5.4.2

Completion Fluid: CaBr-CaCl Brine

Description:** Complete assembly with proper Milling Shoe to mill the slips

Top Connection: 4.5” NC-50 Box

Drill Pipes: 3 ½” Drill Pipes with 4.3/4” Drill Collars will be supplied by OIL

X-Overs: All required X-Overs to be supplied by Bidders.

****Bidder must provide adequate documentation including case histories showing successful milling of HPHT Drillable Plug at approximately 4500m or deeper depths.**

NOTE: Drilling Rig will have 5.1/2” 24.7 ppf XT-54 connection drill pipe and 3.1/2” 15.5 ppf NC38 connection drill pipe.

3.1/2” and 2.3/8” drill pipe specs available with Service Rig will be confirmed along with LOA. 4.3/4” and 3” to 3.1/4” drill collar specs available with Service Rig will be confirmed along with LOA.

Bidder will be responsible to provide all required crossovers, as required to accomplish the operational objectives for every tool provided by the bidder.

4.5 Quantities for Cement Retainers, Bridge Plugs and Milling Assemblies

4.5.1 Cement Retainers and Accessories Quantities

Table 4.1: Cement Retainer Consumable Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.1.1	7” Mechanical Set Cement Retainer	2	1	2	-
4.1.2	9.625” Mechanical Set Cement Retainer	2	1	-	-
4.1.2.3	9.625” Conversion Kit To CIBP	2	1	-	-
4.1.2.4	9.625” Conversion Kit To Wireline Set	2	1	-	-
4.1.3	13.625” Mechanical Set Cement Retainer	1	1	-	-
4.1.3.2	13.625” Conversion Kit To CIBP	1	1	-	-

Note: Additional items/**Additional quantities** that may be ordered at a later stage are highlighted in **BLUE**.

Table 4.2: Cement Retainer Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.1.1.1	7” Mechanical Cement Retainer Running/Setting Tool	2 Runs	1 Run	2 Runs	-
4.1.2.1	9.625” Mechanical Cement Retainer Running/Setting Tool	2 Runs	1 Run	-	-
4.1.2.2	9.625” Wireline Set Cement Retainer Stinger	2 Runs	1 Run	-	-
4.1.2.5	9.625” Cement Retainer WLAK	2 Runs	1 Run	-	-
4.1.2.6	9.625” Cement Retainer WLPSA	2 Runs	1 Run	-	-
4.1.3.1	13.625” Mechanical Cement Retainer Running/Setting Tool	1 Run	1 Run	-	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment listed above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for all equipment listed above and the Re-Dress Kit charges should be included in the operating charges for respective equipment / tool.

4.5.2 Mechanical Set Retrievable Bridge Plug and Accessories Quantities

Table 4.3: Mechanical Set Retrievable Bridge Plug Consumable Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.2.1	9.625” Mechanical Set Retrievable Bridge Plug	1	1	2	-

Note: Additional items/**Additional quantities** that may be ordered at a later stage are highlighted in **BLUE**.

Table 4.4: Mechanical Set Retrievable Bridge Plug Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.2.1.1	9.625” Mechanical Set Retrievable Bridge Plug Setting Tool	1 Run	1 Run	2 Runs	-
4.2.1.2	9.625” Bridge Plug Retrieving Tool	1 Run	1 Run	2 Runs	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment listed above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for all equipment listed above and the Re-Dress Kit charges should be included in the operating charges for respective equipment / tool.

4.5.3 Speciality HPHT Drillable Bridge Plug Quantities

Table 4.5: HPHT Drillable Bridge Plug Consumable Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.3.1	4.5” HPHT Drillable Bridge Plug	2	1	-	8
4.3.2	7” HPHT Drillable Bridge Plug	3 + 3	2	6	-

Note: Additional items/**Additional quantities** that may be ordered at a later stage are highlighted in **BLUE**.

4.5” Drillable Bridge Plugs have been kept if multiples zones may have to be tested within the 4.5” contingency liner.

7” HPHT Drillable Bridge Plugs have been kept as part of back-up plan for Zone Isolation. Additional 7” HPHT Drillable Bridge Plugs may be ordered if there are issues with the planned Zone Isolation method i.e. setting 4.5” HPHT Cast Iron Bridge Plugs within the 4” ID of the Test Packer Seal Bore.

Table 4.6: HPHT Drillable Bridge Plug Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.3.1.1	4.5” HPHT Drillable Bridge Plug WLAK	2 Runs	1 Run	-	8 Runs
4.3.1.2	4.5” HPHT Drillable Bridge Plug WLPSA	2 Runs	1 Runs	-	8 Runs
4.3.2.1	7” HPHT Drillable Bridge Plug Hydraulic Setting Tool with Redressing Kits	3 Runs + 3 Runs	2 Runs	6 Runs	-
4.3.2.2	7” HPHT Drillable Bridge Plug WLAK	3 Runs + 3 Runs	2 Runs	6 Runs	-
4.3.2.3	7” HPHT Drillable Bridge Plug WLPSA	3 Runs + 3 Runs	2 Runs	6 Runs	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment listed above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for all equipment listed above and the Re-Dress Kit charges should be included in the operating charges for respective equipment / tools.

4.5.4 Milling and Retrieving Assemblies Quantities

Table 4.7: Milling and Retrieving Assembly Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.4.1	Milling and Retrieving Assembly for 7” Test Packer	3 Jobs + 3 Jobs	2 Jobs	6 Jobs	-
4.4.2	Milling and Retrieving Assembly for 4.5” HPHT Drillable Bridge Plug	2 Jobs	1 Job	-	8 Jobs
4.4.3	Milling and Retrieving Assembly for 7” HPHT Drillable Bridge Plug	3 Jobs + 3 Jobs	2 Jobs	6 Jobs	-

Note: Additional Jobs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment described under Item#4.4.1, Item#4.4.2 and Item#4.4.3 to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits / Consumables for all Milling and Retrieving assemblies as described under Item#4.4.1, Item#4.4.2 and Item#4.4.3, and the Re-Dress Kit / Consumable charges should be included in the operating day rate charges for respective Milling and Retrieving assemblies.

5.0 WELL BORE CLEANOUT & LINER TOP NEGATIVE TEST EQUIPMENT

Prior to conducting any testing and packer running operations, Oil India wishes to conduct a wellbore clean out and liner top negative pressure test all in a single trip. In addition to cleaning the well, the tool string will need to support the running of gauge mills to ensure the casing (intermediate and liner) is of the specified drift diameter.

The well will be full of approx. 14.8 ppf WBM (Water Based Mud) when the clean out tools are run in the well. As part of the clean out operation the mud will be displaced out of the well with a 14.8 ppg CaBr-CaCl or Cesium Formate completion fluid (**Please note that CaCl-CaBr brine is the primary brine option, however Cesium Formate brine has been kept as a contingent brine option if kill fluid density in excess of 15 ppg is required for killing the well**). Once the well has been cleaned and gauged as programmed, the liner top negative pressure test will be conducted by displacing the drill pipe to light density fluid then setting the packer to monitor drill pipe for pressure increase as a method of creating a negative pressure at the liner top.

The following is a list of the casing clean out equipment that will be required to conduct well commissioning operations:

5.1 Clean Out Assembly for 7" Liner

Item #	Description	Fits Casing Size	Top Connection	Bottom Connection
	5 7/8" Tri cone bit (supplied by Oil)	7" 35 ppf liner	3 1/2" REG	
	Bit sub (supplied by Oil)	7" 35 ppf liner	3 1/2" NC 38 Box	3 1/2" REG
5.1.1	5.879" Spiral string mill (gauge mill)	7" 35 ppf liner	3 1/2" NC 38 Box	3 1/2" NC 38 Pin
5.1.2	Non rotating casing scraper	7" 35 ppf liner	3 1/2" NC 38 Box	3 1/2" NC 38 Pin
5.1.3	Non rotating casing wire brush assembly	7" 35 ppf liner	3 1/2" NC 38 Box	3 1/2" NC 38 Pin
5.1.4	Non rotating casing magnet	7" 35 ppf liner	3 1/2" NC 38 Box	3 1/2" NC 38 Pin
	3 1/2" Drill pipe (supplied by Oil)	7" 35 ppf liner	3 1/2" NC 38 Box	3 1/2" NC 38 Pin
5.1.5	X-Over	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	3 1/2" NC 38 Pin
5.1.6	Liner top dress mill for 7.375" tie back barrel	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
5.1.7	Non rotating casing scraper	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
5.1.8	Non rotating casing wire brush assembly	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
5.1.9	8.50" Spiral string mill (gauge mill)	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
5.1.10	Liner top negative test packer (see foot notes)	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
5.1.11	Non rotating casing magnet	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
	5 1/2" Drill pipe (supplied by Oil)	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
5.1.12	BOP Jetting tool	18 3/4" BOP	4 1/2" NC 50 Box	4 1/2" NC 50 Pin
	5 1/2" Drill pipe (supplied by Oil)	9 5/8" 53.5 ppf Intermediate	4 1/2" NC 50 Box	4 1/2" NC 50 Pin

Table 5.1: Casing Clean Out Assemblies

In the event the 4 1/2" contingency liner is run, it will be hung from the previous 7" liner. This liner top will also need to have a negative test conducted in the same manner as what is described for the 7" liner top. It is proposed that the 4 1/2" liner

clean out system be run as an individual trip to the 7" clean out system but with the capability to test the 4 ½" liner top with a 7" packer.

5.2 Clean Out Assembly for 4 ½" Liner

Item #	Description	Fits Casing Size	Top Connection	Bottom Connection.
	3.50" Tri cone bit (supplied by Oil)	4 ½" 18.8 ppf liner	2 ⅜" REG	
	Bit sub (supplied by Oil)	4 ½" 18.8 ppf liner	TBD	2 ⅜" REG
5.2.1	3.515" Spiral string mill (gauge mill)	4 ½" 18.8 ppf liner	TBD	TBD
5.2.2	Non rotating casing scraper	4 ½" 18.8 ppf liner	TBD	TBD
5.2.3	Non rotating casing wire brush assembly	4 ½" 18.8 ppf liner	TBD	TBD
5.2.4	Non rotating casing magnet	4 ½" 18.8 ppf liner	TBD	TBD
	2 ⅜" Drill pipe (supplied by Oil)	4 ½" 18.8 ppf liner	2 ⅜" SL-H90 Box	2 ⅜" SL-H90 Pin
5.2.5	X-Over	7" 35 ppf liner	3 ½" NC 38 Box	2 ⅜" SL-H90 Pin
5.2.6	Liner top dress mill for 5.25" tie back barrel	7" 35 ppf liner	3 ½" NC 38 Box	3 ½" NC 38 Pin
5.2.7	Liner top negative test packer (see foot notes)	7" 35 ppf liner	3 ½" NC 38 Box	3 ½" NC 38 Pin
	3 ½" Drill pipe (supplied by Oil)	7" 35 ppf liner	3 ½" NC 38 Box	3 ½" NC 38 Pin
5.1.5	X-Over	9 5/8" 53.5 ppf Intermediate	4 ½" NC 50 Box	3 ½" NC 38 Pin
	5 ½" Drill pipe (supplied by Oil)	9 5/8" 53.5 ppf Intermediate	4 ½" NC 50 Box	4 ½" NC 50 Pin
5.1.12	BOP Jetting tool	18 ¾" BOP	4 ½" NC 50 Box	4 ½" NC 50 Pin
	5 ½" Drill pipe (supplied by Oil)	9 5/8" 53.5 ppf Intermediate	4 ½" NC 50 Box	4 ½" NC 50 Pin

Table 5.2: Casing Clean Out Assemblies

Additional requirements for liner top negative test packers (Item 5.1.10 & 5.2.7 as above):

- Rated to **8,000 psi** differential at **300°F** (pressure from above) for testing **7" liner top**, and rated to **8,000 psi** differential at **400°F** (pressure from above) for testing **4.1/2" liner top**.
- Activated by setting weight down on liner top tie back barrel
- Uses slips to anchor to the intermediate casing preventing the loads from being distributed to the liner top or PBR(Polish Bore Receptacle)
- Has large fluid by pass area for circulation
- Slips suitable for biting API P-110 & Q-125 casing

- Elements and elastomers suitable for Calcium Bromide – Calcium Chloride or Cesium Formate Brines (***Please note that CaCl-CaBr brine is the primary brine option, however Cesium Formate brine has been kept as a contingent brine option if kill fluid density in excess of 15 ppg is required for killing the well***)

Note: Proof of compatibility must be provided by means of lab testing report or actual field experience in similar conditions. Consideration must also be given for the loss of a packer element when retrieving the system and what remedial action will be taken to retrieve the material. These subjects are to be documented in the bid.

NOTE: Drilling Rig will have 5.1/2" 24.7 ppg XT-54 connection drill pipe and 3.1/2" 15.5 ppg NC38 connection drill pipe.

Bidder will be responsible to provide all required crossovers, as required to accomplish the operational objectives for every tool provided by the bidder.

6.0 SERVICE PACKERS

The service packer(s) will be used to conduct casing and liner top pressure tests as needed. They could be run on drill pipe as well as the 3 1/2" test string. A primary function of the 7" service packer will be run, latch and pressure test the test packer isolation assemblies.

Due to the extremely high bottom hole temperature of the wells in this project, particular attention and consideration must be given to elastomer selection for any tools subjected to down hole conditions. When considering the packing elements used on retrievable packers and the limits in suitable material types, packers utilizing premium element designs will be favoured. Packing element support mechanisms that increase the performance of the element with regards to its ability to be re-set, pressure rating, anti-extrusion qualities and memory (ability to relax and be removed from the well intact) are important considerations in the technical bid evaluation process.

The larger sizes of service packer will be run to shallower depths and ultimately lower bottom hole temperatures. In these cases packer elements and elastomers may be of a lesser grade however HNBR has been established as the minimum standard. It is realized the temperature rating of an elastomer can vary based on specific composition, filler materials and use of mechanical support devices. The same applies to chemical attack, specific elastomer blends demonstrate better performance in certain fluids so it is therefore recommended that bidders present data and run history supporting their recommendation and offered tools.

For the service packer and accessories used in the 7" liner, it is understood there will be limits as to how many times the tools can be functioned primarily as a result of high bottom hole temperatures. This would be most applicable to how many times the packer can be set, subjected to pressure differential then released with confidence that the elements will relax and be removed from the well intact (on the packer). The bidder is to present suggested operating guidelines to address issues regarding hostile conditions.

Please note that since Cesium Formate brine has been kept as a contingent brine option in addition to the primary brine option of CaCl-CaBr brine,

provision for PRIMARY and CONTINGENT equipment has been kept for bidders who prefer to offer separate equipment compatible with respective brine. Bidders who have equipment / elastomers compatible with both brine options can offer the same equipment under PRIMARY and CONTINGENT requirements. Details on element configuration and material composition are required as part of the bid as is the run history of the element system(s) being proposed.

6.1 7.0” Mechanical Set Service Packer - PRIMARY

Casing: 7” 35 ppf Q-125

Differential Pressure Rating: 10,000 psi

Temperature Rating: 400°F

Elastomer Compatibility: CaCl-CaBr Brine

Packing Element Material: As required to meet the pressure and temperature conditions

O-ring Material: Viton® (Fluorocarbon) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

ISO 14310 Test Validation Requirement: N/A

Deployment Method: 3.1/2” Drill pipe or 3 ½” test string

Setting Method: Right hand mechanical with compression (> one full turn at packer)

Releasing Method: Straight pick-up with Auto Jay

Lower Slips: Suitable for Q-125 casing material

Upper Slips: Suitable for Q-125 casing material

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.1.1 7.0” Mechanical Set Service Packer - CONTINGENT

Casing: 7” 35 ppf Q-125

Differential Pressure Rating: 10,000 psi

Temperature Rating: 400°F

Elastomer Compatibility: Formate Brines, Cesium Formate

Packing Element Material: As required to meet the pressure and temperature conditions

O-ring Material: TFE/P Fluoroelastomer (Aflas ®) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

ISO 14310 Test Validation Requirement: N/A

Deployment Method: 3.1/2” Drill pipe or 3 ½” test string

Setting Method: Right hand mechanical with compression (> one full turn at packer)

Releasing Method: Straight pick-up with Auto Jay

Lower Slips: Suitable for Q-125 casing material

Upper Slips: Suitable for Q-125 casing material

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.2 Unloader Circulating Valve For 7” Service Packer - PRIMARY

Differential Pressure Rating: 10,000 psi

Temperature Rating: 400°F

Elastomer Compatibility: CaCl-CaBr Brine

Seal Material: As required to meet the pressure and temperature conditions

O-ring Material: Viton® (Fluorocarbon) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

Deployment Method: 3.1/2” Drill pipe or 3 ½” test string

Operating Method: Mechanical, compression to close and tension to open. Compatible with right hand set service packer.

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.2.1 Unloader Circulating Valve For 7” Service Packer - CONTINGENT

Differential Pressure Rating: 10,000 psi

Temperature Rating: 400°F

Elastomer Compatibility: Formate Brines, Cesium Formate

Seal Material: As required to meet the pressure and temperature conditions

O-ring Material: TFE/P Fluoroelastomer (Aflas ®) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

Deployment Method: 3.1/2” Drill pipe or 3 ½” test string

Operating Method: Mechanical, compression to close and tension to open. Compatible with right hand set service packer.

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.3 9.625” Mechanical Set Service Packer - PRIMARY

Casing: 9.625” 53.5 ppf P-110 & 9.875” 65.3 ppf C-110

Differential Pressure Rating: 8,000 psi

Temperature Rating: 375°F

Elastomer Compatibility: CaCl-CaBr Brine

Packing Element Material: As required to meet the pressure and temperature conditions

O-ring Material: Viton® (Fluorocarbon) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

ISO 14310 Test Validation Requirement: N/A

Deployment Method: 5.1/2” or 3.1/2” Drill pipe or 3 ½” test string

Setting Method: Right hand mechanical with compression (> one full turn at packer)

Releasing Method: Straight pick-up with Auto Jay

Lower Slips: Suitable for P-110 casing material

Upper Slips: Suitable for P-110 casing material

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.3.1 9.625” Mechanical Set Service Packer - CONTINGENT

Casing: 9.625” 53.5 ppf P-110 & 9.875” 65.3 ppf C-110

Differential Pressure Rating: 8,000 psi

Temperature Rating: 375°F

Elastomer Compatibility: Formate Brines, Cesium Formate

Packing Element Material: As required to meet the pressure and temperature conditions

O-ring Material: TFE/P Fluoroelastomer (Aflas ®) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

ISO 14310 Test Validation Requirement: N/A

Deployment Method: 5.1/2” or 3.1/2” Drill pipe or 3 ½” test string

Setting Method: Right hand mechanical with compression (> one full turn at packer)

Releasing Method: Straight pick-up with Auto Jay

Lower Slips: Suitable for P-110 casing material

Upper Slips: Suitable for P-110 casing material

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.4 Unloader Circulating Valve For 9.625” Service Packer - PRIMARY

Differential Pressure Rating: 8,000 psi

Temperature Rating: 375°F

Elastomer Compatibility: CaCl-CaBr Brine

Packing Element Material: As required to meet the pressure and temperature conditions

O-ring Material: Viton® (Fluorocarbon) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

Deployment Method: 5.1/2” or 3.1/2” Drill pipe or 3 ½” test string

Operating Method: Mechanical, compression to close and tension to open. Compatible with right hand set service packer.

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.4.1 Unloader Circulating Valve For 9.625” Service Packer - CONTINGENT

Differential Pressure Rating: 8,000 psi

Temperature Rating: 375°F

Elastomer Compatibility: Formate Brines, Cesium Formate

Seal Material: As required to meet the pressure and temperature conditions

O-ring Material: TFE/P Fluoroelastomer (Aflas ®) All o-rings to be equipped with suitable non elastomeric back-up rings

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Box

Bottom Connection: 3 ½” 15.8 ppf Tenaris Wedge 533 (TSH533) Pin

Deployment Method: 5.1/2” or 3.1/2” Drill pipe or 3 ½” test string

Operating Method: Mechanical, compression to close and tension to open. Compatible with right hand set service packer.

Torque Requirements: 9,000 ft-lbs excluding Tenaris Wedge 533 (TSH533) connections

6.5 13.625” Mechanical Set Service Packer

Casing: 13.625” 88.2 ppf C-110

Differential Pressure Rating: 5,000 psi

Temperature Rating: 300°F

Packing Element Material: NBR or HNBR, HNBR preferable

O-ring Material: NBR or HNBR, HNBR preferable

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 4 ½” NC 50 Box

Bottom Connection: 4 ½” NC 50 Pin

ISO 14310 Test Validation Requirement: N/A

Deployment Method: 5.1/2” Drill pipe

Setting Method: Right hand mechanical with compression (> one full turn at packer)

Releasing Method: Straight pick-up with Auto Jay

Lower Slips: Suitable for C-110 casing material

Upper Slips: Suitable for C-110 casing material

Torque Requirements: 15,000 ft-lbs

6.6 Unloader Circulating Valve For 13.625” Service Packer

Differential Pressure Rating: 5,000 psi

Temperature Rating: 300°F

Seal Material: As required to meet the pressure and temperature conditions

O-ring Material: NBR or HNBR, HNBR preferable

Material: Low alloy carbon steel as required to meet the pressure and temperature requirements

Top Connection: 4 ½" NC 50 Box

Bottom Connection: 4 ½" NC 50 Pin

Deployment Method: 5.1/2" Drill pipe

Operating Method: Mechanical, compression to close and tension to open. Compatible with right hand set service packer.

Torque Requirements: 15,000 ft-lbs

NOTE: Drilling Rig will have 5.1/2" 24.7 ppf XT-54 connection drill pipe and 3.1/2" 15.5 ppf NC38 connection drill pipe.

3.1/2" and 2.3/8" drill pipe specs available with Service Rig will be confirmed along with LOA. 4.3/4" and 3" to 3.1/4" drill collar specs available with Service Rig will be confirmed along with LOA.

Bidder will be responsible to provide all required crossovers, as required to accomplish the operational objectives for every tool provided by the bidder.

7.0 Shop and Rig Floor Testing Requirements For Test Packers

The critical nature of the KG project will require a strict QA process at all levels to ensure a successful and safe job in conducted. Starting with the documentation review to picking up sub-assemblies on the rig floor, many levels of testing and documentation will be required. The following will lay out the minimum standards to which the bidder must meet at the basic levels of the process.

7.1 QA/ QC Documentation Review

- Review and approval of final hook up schematics and tool drawings
- Review of final orders and material selections
- Review & approval of equipment technical and operating documents
- Review material mill certifications for critical system components
- Verification of elastomer type and durometer by review of BOM (Bill of Materials)

7.2 Witness Final Tool Inspection & Sub Assembly Make Up

- Review final engineering BOM (Bill Of Materials)
- Make final dimensional verification and document accordingly (caliper sheets)
- Bidder is to supply their pressure testing procedure including their acceptable pressure losses during testing. This will be subject to approval by Oil
- Sub assembly make up to be conducted with computer torque monitored horizontal bucking machine. Full turn make-up will be required. ¼ or ½ turn high torque tool joint bucking unit will not be acceptable
- A dry run will all metal components of the locator seal assembly will be conducted on each packer and SBE sub assembly in a manner which will prove packer/ SBE concentricity alignment and drift
- Sub assembly pressure tests are to be conducted in an approved contained bunker which ensures the safety of the workers and other personnel witnessing the tests
- Bidder is responsible to supply the test caps and fixtures necessary to conduct 15,000 psi pressure tests on all sub-assemblies including the top of packer
- Witness final drifting of sub-assemblies
- Pressure tests must be chart recorded
- Verify all sub-assemblies are equipped with suitable plastic thread protectors
- A bill of lading or shipping manifest must be completed and signed by both parties verifying the types and quantities of equipment being shipped

7.3 *Witness Final Sub Assembly Delivery at Rig Site*

- Verify and compare the delivery of all equipment to that of the shipping manifest and have parties sign off have.
- Inspect for shipping damage paying particular attention to tool slips.
- Verify the vender had established a suitable storage procedure and location at the rig site to ensure proper protection of threads and elastomers.

8.0 TECHNICAL & DOCUMENTATION

- Supply technical specifications on all tendered equipment
- Provide a generalized layout or hook-up drawing of equipment including the following:
 - Recommended tool string components, schematics (including electronic copies), operating procedures and hook-up diagram for system
 - Tool dimensions – O.D., I.D., length, etc.
 - Top and bottom thread connection type and size of the individual tools/components
 - Bidder must provide a detailed list of all elastomers used in the system including the running & setting tools and how the high BHT is addressed in the selection of elastomeric materials
- Specify local (or nearest) service location to the indicated well site. Bidders are to include a description of the facilities capabilities with regards to stab up and pressure testing of the bided completion systems
- Proposed source and current location for all equipment and personnel described in this tender
- Describe highlights of quality plan, quality assurance and quality control practices
- Detail how proposed assemblies would be shipped to the rig and the load out documentation
- Supply a detailed run history of all the systems and components being bid which includes the customer, location, conditions & environment
- Supply of any applicable Material Safety Data Sheets (MSDS) for all materials that will be supplied and used by the Contractor
- Entire order subject to third party inspection including thread gauging

9.0WELL ARCHECTHURE, CONDITIONS & ENVIRONMENT**Table 9.1: Casing Program**

Casing Size (inches)	Hole Size (inches)	Shoe Depth (meters)	Grade	Connection Type	Casing Weight (ppf)
30	36	20	X-65	N/A	309.7
20	26	600	J-55	Tenaris ER	117
16	18 ½ (UR-20")	2000	T-95	Dino Vam	94.5
13 ⅝	14 ¾ (UR-16")	3250	C-110	Tenaris 513	88.2
11 ¾ Contingent Drilling Liner	12 ¼	4200	C-110	Tenaris 513	65
9 ⅝ - 9 ⅞	12 ¼	4600	C-110	SLIJ-II	65.3
7.0 Production Liner	8 ½	6000	Q-125	Vam Top	35
7 ⅝ Tie Back		4600	T-95	Vam HP SC 76	59.3
4 ½ Contingent Production Liner	5 ⅞	6300	Q-125	Vam Top	18.8
3 ½ Test Tubing			T-95	Tenaris 533	15.8
3 ½ Production Tubing			T-95	Vam Top	15.5

Table 9.2: Drilling Mud Properties

Mud Type	Mud Density (ppg)	PV (cp)	Mud YP (lbs/ 100 ft²)	Mud F/ Loss (cc/ 30 min)	Mud pH	Mud Viscosity	Solids Content %
WBM	15-16	35 - 45	> 18	< 5.0	10.0 – 10.5	> 45	26 – 30

Table 9.3: Completion/ Kill Fluid Properties

Fluid Type	Fluid Density (ppg)	PV (cp)	NTU's	Brine Fluid Loss (cc/ 30 min)	Brine pH	Funnel Viscosity	Solids Content %
CaBr-CaCl (Calcium Bromide – Calcium Chloride) OR Cesium Formate	14.8 – 15.2	ALAP	< 30	Not controlled	> 9.5	~40	0

Table 9.4: Well Data

Basic Well Data	Units	Data	Comments
Well Type		Sour Gas Exploration Well	
Ground Elevation	m	10	
KB Elevation	m	25	
TD MD	m KB	6000	
TD TVD	m KB	6000	
TD TVD	m SS	5990	
PBTD MD	m KB	5990	
KOP MD (if applicable)	m KB	N/A	
Build Rate (if applicable)	°/30 m	N/A	
Tangent Angle (if applicable)	°	N/A	
Max Dogleg MD (if applicable)	°@30 m	1.5	
Deviation Survey (Well Path)		N/A	
Anticipated Pore Pressure Profile	kPa/m	15.39	
Formation Properties			
Rock Type		Sandstone	
Porosity (P ₅₀ value)	%	6-10 %	
Estimated Permeability (k) (P ₅₀ value)	mD	<1	
k _h /k _v Ratio		0.1	
Rock Compressibility	e ⁶ /kPa		
Rock Unconfined Compressive Strength	MPa	41.3 to 68.9	6,000 to 10,000 psi
Rock 13.1 MPa Confined Compressive Strength	MPa	68.9 to 110.3	10,000 to 16,000 psi

TENDER NO. CEG4091L15

H ₂ S Concentration	ppm	40 - 120	
CO ₂ Concentration	%	6 % - 15%	
Drilling Parameters			
Static Bottom Hole Temp	°F	450	See geothermal gradient profile below

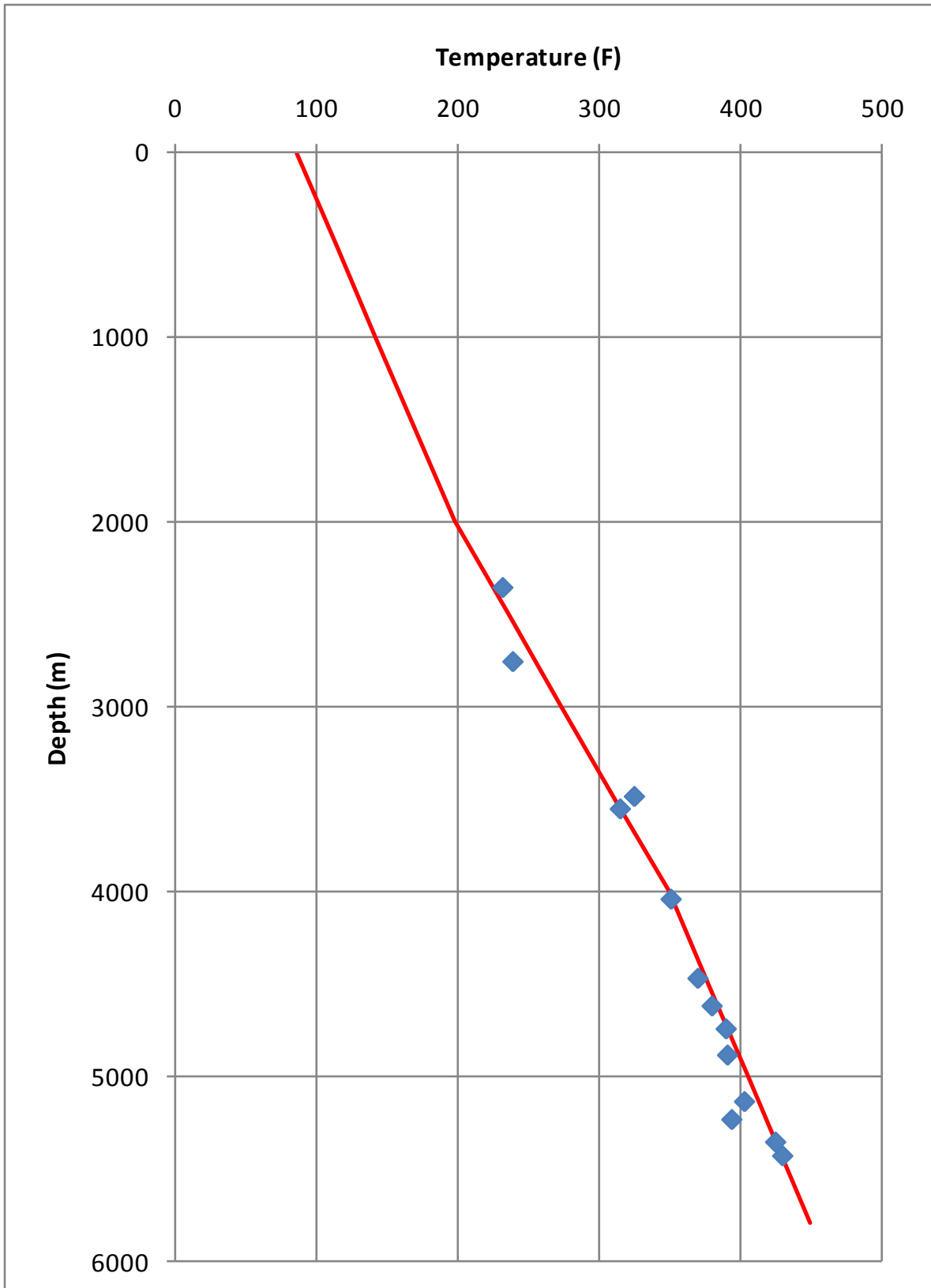


Figure 9.1: Geothermal Temperature Profile

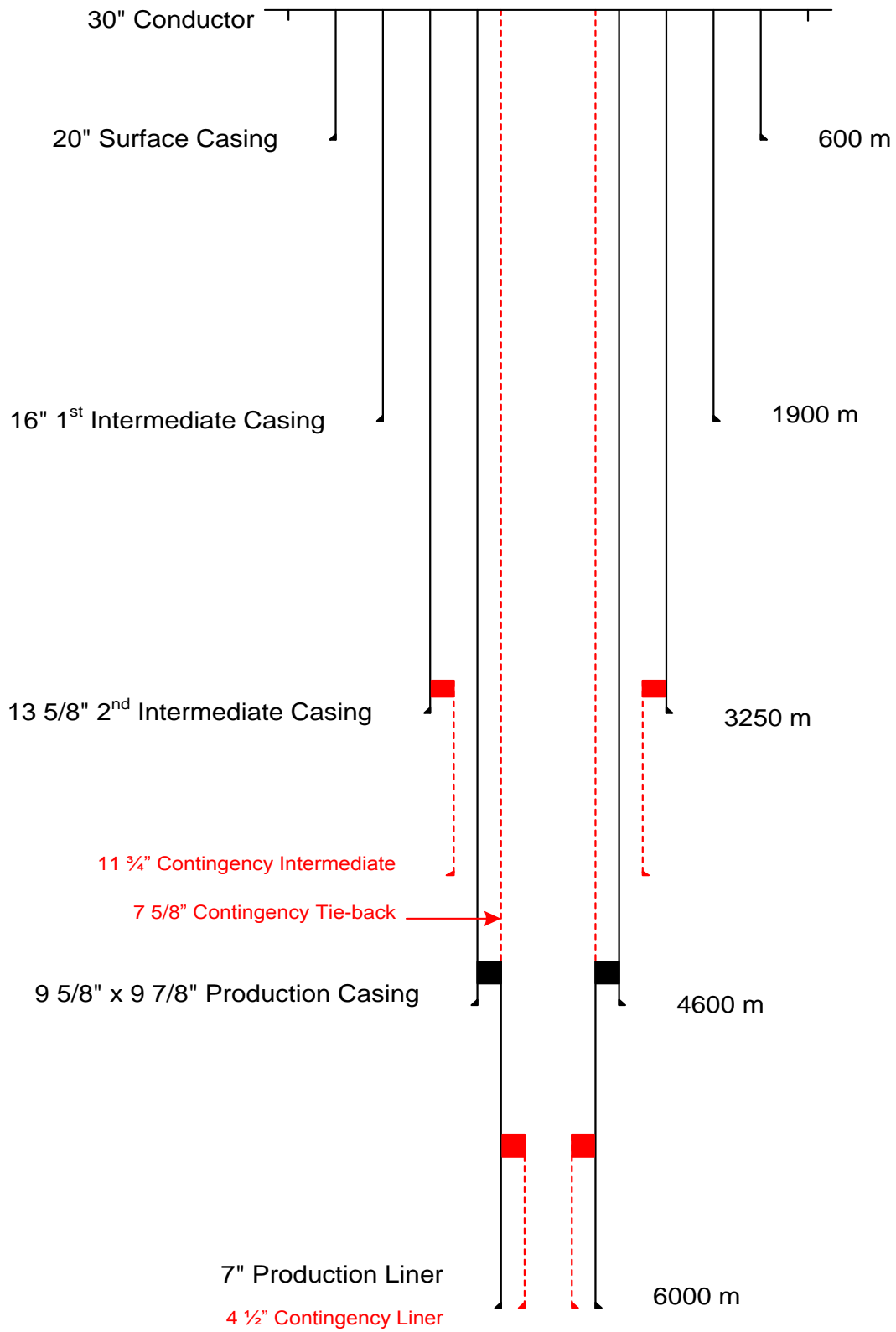


Figure 9.2: Typical Well Casing & Liner Design Schematic

10.0 SCOPE OF SUPPLY & BACK-UP

Considering the well conditions, the supply of packers and accessories will be broken into 2 sections based on material type. The test packer assemblies will comprise primarily of low alloy carbon steel whereas the production packers will be nickel alloy material. Full back up of each tool in each material type will be required. The following tables will outline the required quantities including back-up / contingency.

Bidder must provide details on how redressing of running, setting and other service tools will be managed from the drilling site with regards to back-up and location of base.

There will be a total of 3 or 4 HPHT wells in the first stage of the project. It is requested that the bidder detail the costs associated to having available 100% back-up of all service tools within the system.

10.1 Packer Assembly and Zone Isolation equipment Quantity Tables

Table 10.1: Test Packer Accessories

Sl No	Items	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
3.1	CRA Production Packer Assembly				
3.1.1	7” CRA Permanent Production Packer	2	1	2	-
3.1.2	4.0” CRA Seal Bore Extension	2	1	2	-
3.1.3	4.0” CRA Wireline Re-entry Guide	2	1	2	-
3.1.4	4.0” CRA Locator Seal Assembly	2	1	2	-
3.1.4	Redressing Kit for 4.0” CRA Locator Seal Assembly .RK	2 Sets	-	2 Sets	-
3.1.5	4.0” Seal Assembly To Tail Pipe Adaptor	2	1	2	-
3.2	Test Packer Assembly				
3.2.1	7.0” Permanent Test Packer	6	2	6	-
3.2.2	4.0” Seal Bore Extension	6	2	6	-
3.2.3	4.0” Wireline Re-entry Guide	6	2	6	-
3.2.4	4.0” Locator Seal Assembly	2	1	-	-
3.2.4	Redressing Kit for 4.0” Locator Seal Assembly .RK	4 Sets	2 Sets	6 Sets	-
3.2.5	4.0” Seal Assembly To Tail Pipe Adaptor	2	1	-	-
3.3	Zone Isolation System				
3.3.1	4.5” HPHT Cast Iron Bridge Plug	4	2	4	-
3.4	Test Packer & HPHT Bridge				

Plug Setting Tools					
3.4.1	7" Test Packer WLPSA	6 Runs	2 Runs	6 Runs	-
3.4.2	7" Test Packer WLAK	6 Runs	2 Runs	6 Runs	-
3.4.3	7" Test Packer Hydraulic Setting Tool	6 Runs	2 Runs	6 Runs	-
3.4.4	4.5" HPHT Bridge Plug WLPSA	4 Runs	2 Runs	4 Runs	6 Runs
3.4.5	4.5" HPHT Bridge Plug WLAK	4 Runs	2 Runs	4 Runs	-

Note: Additional Items/**Additional quantities** that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder Shall Provide Packer Setting & Redressing Expert for setting of 6 nos of packers in two (2) nos of exploratory drilling wells with 3 testing zones per well. A call-out notice of 10 days will be given for mobilization of the packer setting expert.

Bidder should keep one additional set of Test Packer and/or HPHT Bridge Plug Setting Tools for contingency at all times to ensure uninterrupted operations.

The quantities mentioned above are estimated as per the current well planning. Quantities for first 2 HPHT wells + Quantity for Contingency may be ordered initially. However, provision has been kept to order additional equipment for 3rd and/or 4th Well at a later stage, once it is decided to complete them as 7" Liner completion or 4.5" Monobore. CRA production Packer assemblies will also be ordered if Well Test results are supportive of commercial production from these wells.

Table 10.2: Test Packer Accessories

Items #	Description	Qty Required	Back-up	Total
1	Appropriate size wireline junk basket gauge ring for # 20 junk basket	1	1	2
3	15,000 psi pressure test cap for bottom of locator seal assembly	1	1	2
4	15,000 psi pressure test cap with 3.5" 15.8 ppf Tenaris 533 Pin & suitable port for pressure pump	1	1	2
5	15,000 psi pressure test caps for packer and all other accessories	1	1	2

Note: Test packer accessories should be made available at all times to accomplish the operational objectives. The cost of these accessories should be assumed in the respective operational activities they will be used for. There will not be any additional payments for these items.

10.2 Cement Retainers, Bridge Plugs and Milling Assembly Quantities

10.2.1 Cement Retainers and Accessories Quantities

Table 10.3: Cement Retainer Consumable Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.1.1	7” Mechanical Set Cement Retainer	2	1	2	-
4.1.2	9.625” Mechanical Set Cement Retainer	2	1	-	-
4.1.2.3	9.625” Conversion Kit To CIBP	2	1	-	-
4.1.2.4	9.625” Conversion Kit To Wireline Set	2	1	-	-
4.1.3	13.625” Mechanical Set Cement Retainer	1	1	-	-
4.1.3.2	13.625” Conversion Kit To CIBP	1	1	-	-

Note: Additional items that may be ordered at a later stage are highlighted in **BLUE**.

Table 10.4: Cement Retainer Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.1.1.1	7” Mechanical Cement Retainer Running/Setting Tool	2 Runs	1 Run	2 Runs	-
4.1.2.1	9.625” Mechanical Cement Retainer Running/Setting Tool	2 Runs	1 Run	-	-
4.1.2.2	9.625” Wireline Set Cement Retainer Stinger	2 Runs	1 Run	-	-
4.1.2.5	9.625” Cement Retainer WLAK	2 Runs	1 Run	-	-

4.1.2.6	9.625" Cement Retainer WLPSA	2 Runs	1 Run	-	-
4.1.3.1	13.625" Mechanical Cement Retainer Running/Setting Tool	1 Run	1 Run	-	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment listed above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for all equipment listed above and the Re-Dress Kit charges should be included in the operating charges for respective equipment / tool.

10.2.2 Mechanical Set Retrieval Bridge Plug and Accessories Quantities

Table 10.5: Mechanical Set Retrieval Bridge Plug Consumable Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Continge ncy	Qty for 3 rd & 4 th Well – 7" Liner	Qty for 3 rd & 4 th Well- 4.5" Monobor e
4.2.1	9.625" Mechanical Set Retrieval Bridge Plug	1	1	2	-

Note: Additional items that may be ordered at a later stage are highlighted in **BLUE**.

Table 10.6: Mechanical Set Retrieval Bridge Plug Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Continge ncy	Qty for 3 rd & 4 th Well – 7" Liner	Qty for 3 rd & 4 th Well- 4.5" Monobor e
4.2.1.1	9.625" Mechanical Set Retrieval Bridge Plug Setting Tool	1 Run	1 Run	2 Runs	-
4.2.1.2	9.625" Bridge Plug Retrieving Tool	1 Run	1 Run	2 Runs	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment listed above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for all equipment listed above and the Re-Dress Kit charges should be included in the operating charges for respective equipment / tool.

10.2.3 Speciality HPHT Drillable Bridge Plug Quantities

Table 10.7: HPHT Drillable Bridge Plug Consumable Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.3.1	4.5” HPHT Drillable Bridge Plug	2	1	-	8
4.3.2	7” HPHT Drillable Bridge Plug	3 + 3	2	6	-

Note: Additional items / **Additional quantities** that may be ordered at a later stage are highlighted in **BLUE**.

4.5” Drillable Bridge Plugs have been kept if multiples zones may have to be tested within the 4.5” contingency liner.

7” HPHT Drillable Bridge Plugs have been kept as part of back-up plan for Zone Isolation. Additional 7” HPHT Drillable Bridge Plugs may be ordered if there are issues with the planned Zone Isolation method i.e. setting 4.5” HPHT Cast Iron Bridge Plugs within the 4” ID of the Test Packer Seal Bore.

Table 10.8: HPHT Drillable Bridge Plug Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.3.1.1	4.5” HPHT Drillable Bridge Plug WLAK	2 Runs	1 Run	-	8 Runs
4.3.1.2	4.5” HPHT Drillable Bridge Plug WLPSA	2 Runs	1 Runs	-	8 Runs
4.3.2.1	7” HPHT Drillable Bridge Plug Hydraulic Setting Tool with Redressing Kits	3 Runs + 3 Runs	2 Runs	6 Runs	-
4.3.2.2	7” HPHT Drillable Bridge Plug WLAK	3 Runs + 3 Runs	2 Runs	6 Runs	-
4.3.2.3	7” HPHT Drillable Bridge Plug WLPSA	3 Runs + 3 Runs	2 Runs	6 Runs	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment listed above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for all equipment listed above and the Re-Dress Kit charges should be included in the operating charges for respective equipment / tools.

10.2.4 Milling and Retrieving Assemblies Quantities

Table 10.9: Milling and Retrieving Assembly Rental Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
4.4.1	Milling and Retrieving Assembly for 7” Test Packer	3 Jobs + 3 Jobs	2 Jobs	6 Jobs	-
4.4.2	Milling and Retrieving Assembly for 4.5” HPHT Drillable Bridge Plug	2 Jobs	1 Job	-	8 Jobs
4.4.3	Milling and Retrieving Assembly for 7” HPHT Drillable Bridge Plug	3 Jobs + 3 Jobs	2 Jobs	6 Jobs	-

Note: Additional Jobs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment described under Item#4.4.1, Item#4.4.2 and Item#4.4.3 to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits / Consumables for all Milling and Retrieving assemblies as described under Item#4.4.1, Item#4.4.2 and Item#4.4.3, and the Re-Dress Kit / Consumable charges should be included in the operating day rate charges for respective Milling and Retrieving assemblies.

10.3 Wellbore Cleanout and Liner Top Negative Test Equipment Quantities

Table 10.10: Rental Casing Clean Out Assemblies

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3 rd & 4 th Well – 7” Liner	Qty for 3 rd & 4 th Well- 4.5” Monobore
5.1	7” Casing Clean-Out Assembly	2 Runs	2 Run	2 Runs	-
5.2	4.5” Casing Clean-Out Assembly	1 Run	1 Run	1 Run	2 Runs

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment described under Item#5.1 and Item#5.2 to ensure uninterrupted operations at wellsite.

Considering the time it takes to make up assemblies on the rig floor and the challenges associated to biting tongs on non-standard dimensions, it is required that all components be shop assembled and made ready for shipment to the rig in sub-assemblies such that all assemblies have a 10 ft handling pup joint on top and a 4 ft handling pup joint on bottom. The bidder is therefore required to optimize the configuration of the clean out string in a manner that reduces the number of subassemblies where possible to ensure safe transportation and handling at the rig site. Where possible, sub assembly lengths should be restricted to 40 ft in length for transportation considerations.

The bidder has to arrange for all required Re-Dress Kits for 7" and 4 ½" Liner Clean-Out assemblies as described under Item#5.1 and Item#5.2, and the Re-Dress Kit charges should be included in the operating charges for respective Clean-Out assemblies.

The bidder has to provide adequate number of pup-joints (4 ft and 10 ft long) of 3.½" and 5.½" size along with offshore approved shipping basket at no additional charge.

10.4 Service Packer Quantities

Table 10.11: Rental Service Packer & Unloader Valve Items

Item #	Description	Qty For 2 HPHT Wells	Qty for Contingency	Qty for 3rd & 4th Well - 7" Liner	Qty for 3rd & 4th Well- 4.5" Monobore
6.1	7" Service Packer - PRIMARY	4 Runs	2 Runs	4 Runs	-
6.2	7" Service Packer Unloader Valve - PRIMARY	4 Runs	2 Runs	4 Runs	-
6.3	9.625" Service Packer - PRIMARY	1 Run	1 Run	-	-
6.4	9.625" Service Packer Unloader Valve - PRIMARY	1 Run	1 Run	-	-
6.5	13.625" Service Packer	1 Run	1 Run	-	-
6.6	13.625" Service Packer Unloader Valve	1 Run	1 Run	-	-

Note: Additional runs that may be ordered at a later stage are highlighted in **BLUE**.

The Bidder has to maintain 1 (One) back-up quantity along with 1 (One) Primary set of all equipment described under Item#6.1 to Item#6.6 above to ensure uninterrupted operations at wellsite.

The bidder has to arrange for all required Re-Dress Kits for 7", 9.5/8" and 13.5/8" Service Packers and Unloader Valves as described under Item #6.1 to Item#6.6 above, and the Re-Dress Kit charges should be included in the operating charges for respective Service Packer and Unloader Valves.

Please note that PRIMARY equipment runs will be replaced by CONTINGENT equipment runs in case Cesium Formate brine is used. The required back-up as described for PRIMARY equipment will need to be maintained for CONTINGENT equipment as well.

11.0 MATERIAL REQUIREMENT & SPECIFICATION

There will be distinctly different material requirements for the test packers based on the required life expectancy of the packer. During the cased hole DST operations to test individual zones each well will be tested for relatively short periods of time using test packers whereas during commercial production the CRA production packer will be used as a production packer for the life of the well. Considering the high CO₂ & H₂S partial pressure, it proposed that the CRA production packer and its accessories be constructed from suitable nickel alloy materials.

The test packers have a short life expectancy when compared to the CRA production packers. The typical well test (DST) is expected to be 15 days in duration, and a long term flow test may last for about 12 month, however commercial production may continue for 20 years or more. Considering this it is proposed that the test packer(s) will be constructed from low alloy carbon steel such as T-95, P-110 or Q-125 in accordance with API 5CT specifications. The high pressure nature of the application will require that the test packer(s) be manufactured from various materials that fall under the category of low alloy carbon steel. It is recognized that various MYS (minimum yield strength) materials will be needed therefore the vendor must define the material of each component in a BOM (Bill Of Material).

Considering the corrosion potential of these wells during commercial production and the impact on the long term performance of the down hole tools, OIL has conducted an independent metallurgical study to determine the best suited material for the environment and conditions. The focus of this study was to identify what material classification would be requirement to achieve a suitable PRI (Pitting Resistance Index) of 37. The results concluded that nickel based alloys would be required.

The following is a table of the suitable nickel based alloys that are considered suitable materials for constructing the CRA production packers, CRA seal assemblies and accessories from.


Solid Solution Cold Worked Alloys		
UNS Number	Common Industry Name	Maximum HRC
N06007	ALLOY-G	N/A
N06022	ALLOY-C-22	N/A
N06030	ALLOY G-30	N/A
N06060	SM2060 Mo	N/A
N06110	ALLCORR	N/A
N06250	ALLOY 2050	N/A

N06255	SM2550	N/A
N06455	ALLOY-C-4	N/A
N06625	ALLOY-625	N/A
N06686	ALLOY 686	N/A
N06950	ALLOY G-50	N/A
N06975	ALLOY-G-2/ 2550	N/A
N06985	ALLOY G-3	N/A
N08024	20 MO-4	N/A
N08028	ALLOY-28	N/A
N08135	SM2035	N/A
N10002	ALLOY-C	N/A
N10276	ALLOYC-276	N/A
N06002	HASTELLOY X	N/A
N06059	ALLOY 59	N/A
N06952	NIC-52	N/A
N008031	ALLOY-31	N/A
N08042	NIC-42M	N/A
N26625	ASTM;A494	N/A
N08026	20MO-6	N/A
Precipitation Hardened Alloys		
N07716	625-PLUS	N/A
N07725	ALLOY-725	44
N07048	NONE	40
N07626	NONE	40
N07773	PH-3	40


11.1 Temperature Deration

The BHT (Bottom Hole Temperature) of 450°F will have a significant impact on material used to construct the packers, accessories and setting/ service tools. Considering this impact, the vendor must demonstrate how temperature deration of the various metal parts has been calculated and accounted for in the final rating of the packer or tool.

12 APPENDIX-I



Oil India Limited



RPS Energy

Doc Ver: 34

Company: Oil India

Prepared For: Dinesh Gowami

Basic Rep:

Service Center:

Proposed KG-ONN-2004/1 Well Test String

Client #: (403) 265-7226

Drawn By: Mark Wocitt

Date: 22 October 2013

Sheet: 1

Reference: CC00575

Location: KG Basin Andhra Pradesh

Well: SLL-II

Thread: G-125

Vam Top: 6,000 m

Tenaris 533

TUBULAR	Size	Weight	Grade	Thread	Depth
Casing	9.625" 3.875"	53.20 93.5	P-110 C-110	SLL-II	4,800 m
Lower	7.0"	35 ppf	G-125	Vam Top	6,000 m
Tubing	3.50"	15.8 ppf	T-95	Tenaris 533	

ITEM	DESCRIPTION	I.D.	O.D.	Length (ft)
1.	Annulus Pressure Activated Firing Head For ERHSC Perforating Assembly With 56 Minute (Pyrotechnic or other) Time Delay For ERHSC Detonation Pressure. Redundant Firing Head Also Be Placed At The Top Of The TCP.	N/A	3.500	
2.	3.500" Scalloped ERHSC Perforating Gun With 25,000 psi Minimum Collapse Pressure Rating. TBD Overall Length. HNS Charges Suitable For 450°F At 14 kpsi HP.	N/A	3.500	4-100
3.	3.500" Scalloped ERHSC Safety Spacer		3.375	
4.	Pressure Activated Top Firing Head With 45 Minute (Pyrotechnic or other) Time Delay For ERHSC Perforating Assembly. 22,000 psi Approximate Detonation Pressure. 2.875" 6.5 ppf EUE Box. Special Clearance OD. L-80 Material. Redundant Firing Head May Be Located At Top Of TCP Assembly. Pressure Port Must Be Accessible From The Annulus	N/A	3.375	
5.	2.875" X 10" Tubing Pup Joint. 2.875" 6.5 ppf EUE Connections. Equipped With Tapered Special Clearance EUE Coupling. L-80 Material.	2.441	3.460	10.00
6.	2.875" X 10" Tubing Pup Joint. 2.875" 6.5 ppf EUE Connections. Equipped With Tapered Special Clearance EUE Coupling. L-80 Material.	2.441	3.460	10.00
7.	Ported Flow Sub With Glass/ Ceramic Disk. Below Ports. Flow Area Of The Ports Greater Than The Flow Area Of The Tubing. 2.875" 6.5 ppf EUE Connections. L-80 Material.	2.441	3.460	1.50
8.	2.875" X 10" Tubing Pup Joint. 2.875" 6.5 ppf EUE Connections. Equipped With Tapered Special Clearance EUE Coupling. L-80 Material.	2.441	3.460	10.00
9.	Ported Flow Sub. Flow Area Of The Ports Greater Than The Flow Area Of The Tubing. 2.875" 6.5 ppf EUE Connections. L-80 Material.	2.441	3.460	1.50
10.	2.875" X 10" Tubing Pup Joint. 2.875" 6.5 ppf EUE Connections. Equipped With Tapered Special Clearance EUE Coupling. L-80 Material.	2.441	3.460	10.00
11.	Seal Assembly To Tail Pipe Adapter. Premium MTM Seal Box X 2.875" 6.5 ppf EUE Pin. L-80 Material	2.441	3.995	1.50
E.	7.0" Permanent Seal Bore Packer For 7.0" 35 # QHC-125 Casing ow Minimum 4.00" Bore. Premium Box Down Connector For SBE. Low Alloy Steel & Nickel Base Alloy Material Requirements As Per Tender. Minimum Pressure Rating Of 12 kpsi In A Plugged Condition. Note: A Non Seal Packer Bore Is Acceptable	4.000	5.800	4.50
B.	40" Seal Bore Extension With Minimum 4.00" ID.	4.000	5.250	40.00
A.	Mule Shoe Wireline Re-entry Guide With Minimum 4.000" ID. Premium Metal to Metal Box Connection. Low Alloy Steel & Nickel Base Alloy Material Requirements As Per Tender Specifications	4.000	5.750	1.50
12.	40" Locator Seal Assembly With Minimum 4.000" ID. Equipped With 3 Non-Elastic Seal Stacks and 2 Non-Sealing Patris Barriers. 3.50" 15.8 ppf Tenaris 533 Box Connection. X Premium Pin Down Connection To Accept Tail Pipe Adapter Or Tail Mule Shoe. 150 kpsi Axial Load. V1 Qualified To 15 kpsi At 450°F. Low Alloy Steel & Nickel Base Alloy Material Requirements As Per Tender Specifications	2.441	4.000	40.00
13.	3.50" Mechanical Safety Joint. 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.548	4.500	1.000
14.	3.50" X 10" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	10.00
15.	1 Joint 3.50" Tubing. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	90.00
16.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
17.	Single Shot Tubing Tester Valve. To Be Actuated By Applied Annulus Pressure Via Rupture Disk Suitable For 15 kpsi Service At 450°F. Equipped With Hostile Service Elastomer Package. 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.250	5.250	
18.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
19.	Downhole Gauge Carrier - Mechanical Gauges. Equipped With 3 HT Mechanical Pressure Gauges Suitable For 320°F With 300 kip Axial Load & 1 HT Mechanical Temperature Gauges Suitable For Service Between 100°F and 450°F. Configured To Monitor Tubing Pressure Only. 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.250	5.000	
20.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
21.	Lower Downhole Gauge Carrier - Electronic Gauges. Equipped With 4 HT Pressure/ Temperature Quartz Gauges Suitable For 20 kpsi Service At 410°F. Ability To Post Gauges To Monitor Either Tubing or Annulus 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.250	5.000	
22.	3.50" X 10" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	10.00
23.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
24.	Pump Through Downhole Safety Valve. To Be Actuated By Applied Annulus Pressure Via Rupture Disk Suitable For 15 kpsi Service At 450°F. Equipped With Hostile Service Elastomer Package. 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.250	5.000	
25.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
26.	3.50" X 6" Radioactive Marker Sub. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.250	5.000	6.00
27.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
28.	Single Shot Circulating Valve. To Be Actuated By Applied Annulus Pressure Via Rupture Disk. Suitable For 15 kpsi Service At 450°F. Equipped With Hostile Service Elastomer Package. 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.250	5.000	
29.	3.50" X 10" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	10.00
30.	3.50" Tubing As Required. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	10.00
31.	3.50" X 4" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
32.	Upper Downhole Gauge Carrier - Electronic Gauges. Equipped With 4 HT Pressure/ Temperature Quartz Gauges Suitable For 20 kpsi Service At 380°F. Ability To Post Gauges To Monitor Either Tubing or Annulus 3.50" 15.8 ppf Tenaris 533 Connections. Sour Service Material	2.250	5.000	
33.	3.50" X 6" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	6.00
34.	Tubing Tester Valve With Bypass Ports. To Be Actuated By Applied Annulus Pressure Via Rupture Disk Suitable For 15 kpsi Service At 450°F. Equipped With Hostile Service Elastomer Package. 3.50" Tenaris 533 Connections. Sour Service Material.	2.250	5.000	
35.	3.50" X 10" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	10.00
36.	3.50" Tubing As Required. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	
37.	3.50" X 4" Tubing Pup Joint. 3.50" 15.8 ppf Tenaris 533 Connections. T-95 Material	2.548	4.500	4.00
38.	Crossover. 3.50" 15.8 ppf Tenaris 533 Pin X TBD Box Connections. T-95 Material			
39.	Surface Controlled, Sub Surface Safety Valve (Assembly). Connections TBD. 15 kpsi Minimum Working Pressure @ 320°F With 300 kip Axial Load (Combined Load). 500 kip Axial Load With Zero Pressure. Fail Safe To Closed Position	2.750	8.250	
40.	BCP Slick Joint. Suitable For Clearing 5.0" BOP Pipe Rams. 5.0" OD Section To Be Minimum 2.0' Long. Connections TBD. Equipped For Passage Of 0.25" Hydraulic Control Line. 15 kpsi Minimum Working Pressure @ 320°F With 300 kip Axial Load (Combined Load). 500 kip Axial Load With Zero Pressure	2.750	10.00	
41.	BCP Sulf Joint. Approximate Length To Be 30'. Connections TBD. 15 kpsi Minimum Working Pressure @ 320°F With 300 kip Axial Load (Combined Load). 500 kip Axial Load With Zero Pressure	2.750	10.00	

Zonal Isolation System

A.	4.0" Mule Shoe Wireline Re-entry Guide. Premium Box Connection. P-110 Material	4.000	5.750	1.50
B.	4.0" X 40" Seal Bore Extension. Premium Connections G-125 Material	4.000	5.250	40.00
C.	4.50" 15K HPHT Cast Iron Bridge Plug. Suitable To Set In 4.50" SBE (Equivalent To 4.50" 11.6 ppf or 5.0" 24.2 ppf casing). Equipped With Atlas Element System. ISO 14310 - V0 Qualified To 15 kpsi At 450°F. Slips to be suitable for G-125 Equivalent Material			3.750
D.	3.0 m (10 ft) Perforations. 6 ppf @ 72 Degree Phasing. These Perforations Would Be Placed After The Zone Above Has Tested & Stimulated As Required.			
E.	7.0" Permanent Seal Bore Packer For 7.0" 35 # QHC-125 Casing ow Minimum 4.00" Bore. Premium Box Down Connector For SBE. Low Alloy Steel & Nickel Base Alloy Material Requirements As Per Tender. Equipped With Atlas Element System. ISO 14310 - V1 Qualified To 15 kpsi At 450°F. Minimum Pressure Rating Of 12 kpsi In A Plugged Condition. Note: A Non Seal Packer Bore Is Acceptable	4.000	5.800	4.50

NOTES

- All dimensions and measurements are approximate
- The bottom of the seal assembly must be equipped with a premium thread that will allow for shop pressure testing of the assembly itself as well as a rig floor test against the bottom tubing test valve
- All tubing joints are equipped with Tenaris 533 connections

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13.0 MOBILIZATION PERIOD:

The bidders must confirm their compliance in their “Techno-Commercial” bid to complete the mobilization within **210 days** as detailed below from the date of issue of the Letter of award (LOA) for respective items. Please note that LOA for different items may be issued at different times, at the discretion of the Company and as per planned operations.

Particulars	Mobilization Time
Delivery / Mobilization of Test Packers and Cast Iron Bridge Plug (CIBP) – TOR Section-3	Within 210 days of Mobilization notice issued by the Company
Delivery / Mobilization of Well Completion Equipment except Test Packers & CIBP – TOR Section-4	Within 120 days of Mobilization notice issued by the Company
Mobilization of Wellbore Cleanout and Liner Top Negative Test Equipment – TOR Section-5	Within 120 days of Mobilization notice issued by the Company
Mobilization of Service Packers and Unloader Valves – TOR Section-6	Within 120 days of Mobilization notice issued by the Company
Mobilization of Contractor’s Personnel for all services	Within 10 days of Mobilization notice issued by the Company
Delivery / Mobilization of Optional/Additional Items – Test Packers, CRA Packers, CIBP – TOR Section-3	Within 150 days of Mobilization notice issued by the Company
Delivery / Mobilization of Optional/Additional Items – Well Completion Equipment (except Test Packers & CIBP), Wellbore Cleanout and Liner Top Negative Test Equipment and Service Packers – TOR Section-4, Section-5 and Section-6	Within 90 days of Mobilization notice issued by the Company

END OF SECTION – II

SECTION - III

SCHEDULE OF RATES

The bidder shall quote the following rates in their price bid as per Proforma B given below and payment shall be made for the actual work done and all "DAY RATE" charges shall be payable on pro-rata basis to nearest Half an hour:

**A. MOBILIZATION CHARGES TO FIRST WELL:
(CONTRACTOR'S TOOLS / EQUIPMENT WITH ALL ACCESSORIES)**

- i) **Mobilization Charges** shall be a lump sum amount inclusive of transportation and other costs for all tools/equipment and spares/consumables/ accessories to the Contractor's Base and shall be paid once.
- ii) **Mobilization Charges** cover all costs of the Contractor to mobilize the equipment to the Contractor's Base including all local taxes, port fees, inland transport etc.
- iii) There shall be no part payment or pro rata payment for any equipment. Mobilization Charges quoted should not exceed 7.5% of the total Contract value.
- iv) **Mobilization will be considered as completed when:**
 - a) All the operating tools / equipment / consumables (free of defects/ encumbrances) are positioned at the Contractor's base.
 - b) Properly tested and calibrated tools/equipment are inspected at Contractor's Base by Company's representative to Company's satisfaction.
- v) **Contractor shall ensure the arrival of all equipment in good condition:**
 - a) Where appropriate all equipment and materials must be delivered on/in suitable skids, tool racks, baskets, containers, pallets, etc. as the case may be.
 - b) Dangerous goods and explosives must be suitably packaged, labeled and otherwise marked according to all regulations and MSDS sheets should accompany the package.
 - c) Appropriate packaging must be utilized for all deliveries.
 - d) If appropriate, material must be suitably coated with a corrosion prevention material and be packed with a dehumidifier, both of which must be suitable for storage at ambient temperatures of 40°C.
 - e) Contractor shall supply appropriate lifting gear for all equipment; current load test certificates for all slings, rigging and lifting gear will be required.

Company reserves the right to allow operations to start without complete mobilization, provided it is possible to start work with the items mobilized. However, the shortfall items must be mobilized by the Contractor immediately thereafter. If the Company permits the Contractor to start Operations without completing mobilization, only 80% of Mobilization charges will become payable to the Contractor and the remaining 20% of mobilization charges will be paid only after the shortfall items are made available. The Liquidated Damages as set out in the Contract shall be applicable upto the date the shortfall items are made available. However, notwithstanding this provision for partial mobilization, the Contractor must make all effort for mobilization of Contractor's items as per the contractual provisions.

**B. DE-MOBILIZATION CHARGES FROM LAST WELL:
(CONTRACTOR'S TOOLS / EQUIPMENT WITH ALL ACCESSORIES)**

- i) The Demobilization Charges should be quoted as lump sum charge, which will include all charges for demobilization of all equipment.
- ii) **Demobilization Charges** will be payable to Contractor by the Company only once after completion of Company's activity in last well location against this Contract. The Contractor shall arrange for and execute demobilization of their entire package of Tools/ Equipment/ Spare/ Accessories etc. upon receipt of notice from the Company. De-Mobilization will indicate completion/termination of the Contract and Contractor shall bear all such costs/charges, if any towards the same from the last drilling location to Contractor's base.
- iii) All the charges, whatsoever, on Tools/Equipment/Spare/Accessories etc. shall cease to exist with effect from the day, the Contractor is issued demobilization notice by Company.
- iv) All charges connected with demobilization including all fees, duties and taxes in relation thereto, insurance and freight within India or on export/re-export outside India will be to Contractor's account.
- v) Pursuant to Clause of 'General Conditions of Contract', Demobilization charges shall be paid to the Contractor for complete package of Tools/ Equipment/ Spare/ Accessories etc. only once, after completion of the contractual period/ termination of the Contract.
- vi) Demobilization Charges quoted should not exceed 7.5% of the total Contract value.
- vii) The Contractor is required to clear off the Site within 30 (thirty) days and complete Demobilization within 60 (sixty) days from the date of 'Demobilization Notice' served by the Company.

**C. LOCAL TRANSPORT CHARGES:
(CONTRACTOR'S TOOLS / EQUIPMENT WITH ACCESSORIES)**

- i) The Local Transport Charges shall be payable on lump sum basis which includes all the charges towards local movement of Contractor's equipment/tools between any well site and Contractor's base for re-dressing or service or proper storage.

- ii) The Local Transport Charges should include the to and fro movements, i.e. transportation from the contractor's base to well sites and back to contractor's base after completion of planned operations.

**D. OPERATING DAY RATE CHARGES [ODR]:
(TOOLS / EQUIPMENT/ ASSEMBLIES WITH ALL ACCESSORIES)**

- i) The **ODR** for **all Rental equipment/tools/assemblies** shall be payable for the period when the respective tool is lowered below the Rotary Table at the beginning of the planned operation, until the tool is recovered at Rotary Table at the end of the planned operation.
- ii) The **ODR** will be considered on day rate basis for a day of 24 hrs., for any time in part thereof, the charges shall be computed on pro-rata basis.
- iii) The cost of all redress kits / consumables required for a successful job must be included in the ODR charges.
- iv) If the Contractor's tool/equipment fails to perform, for any reason in the duration of operation, then no **ODR** shall become payable for the entire unit of the service until the equipment/tool is put back in to operating condition or evidence by demonstration of operation in actual tests or use to the satisfaction of Company.

**E. MONTHLY RENTAL CHARGES [MRC]
(TOOLS/EQUIPMENT/ASSEMBLIES WITH ALL ACCESSORIES)**

- i) The **MRC** for **all Rental tools / equipment / assemblies** shall be payable from the date the Tool / Equipment is mobilized at the Contractor's Base, until the Tool / Equipment is demobilized from the Well Site and shall be applicable on a calendar month basis under the following conditions:
 - a. Contractor's equipment is defect free and ready to undertake operation at all times during the Contract Period.
 - b. The **MRC** shall also be applicable against temporary halt of operation due to repair/shut down of the tools and equipment. However, if the particular equipment / tool is not brought into operation within twenty four (24) hours of shut down, it will be treated as **Zero Rate**.
 - c. Job is completed but the notice of Demobilization is not issued.
- ii) The **MRC** will be considered on monthly rental basis for a month of 30 days. For any time in part thereof, the charges shall be computed on pro-rata basis. This will be applicable in the month of mobilization and demobilization and accordingly the monthly rental will be calculated on actual day basis.
- iii) All other necessary equipment, tools and accessories etc. shall be provided by the Contractor for due performance of the intended services without any additional rental charges to Company.
- iv) Any and all charges associated with maintaining back-up equipment / tools / assemblies for uninterrupted operations should be included in the monthly

rental charges for respective equipment / tool / assembly. No additional charges shall be paid for maintaining back-ups where required.

F. MOBILIZATION CHARGES OF PERSONNEL TO WELL SITE

- i) The competent personnel to carry out assigned activity shall be mobilized by Contractor on “Call out” basis. The “Call-out” notice to Contractor will be issued by Company on each assignment at least 5 days in advance.
- ii) **Mobilization Charges of Personnel** as Lump Sum shall be payable to the Contractor after the completion of Mobilization of Personnel. The Contractor shall mobilize the personnel on receipt of Call Out notice from the Company.
- iii) **Mobilization Charges** shall cover all costs of Contractor including but not limited to travel expenses, in-transit accommodation charges, personal insurance etc. for Contractor’s Personnel to reach the Company’s designated Site on receipt of the mobilization notice from Company.

G. DEMOBILIZATION CHARGES OF PERSONNEL FROM WELL SITE

- i) **Demobilization Charges of personnel** shall be payable to the Contractor as Lump Sum after the departure of Contractor’s personnel from any well Site on receipt of demobilization notice from Company Representative.

NOTE: The Company retains the right to “mobilize & demobilize” Contractor’s personnel “to and from” any drilling location depending upon operational requirement. Also the Company retains right to remobilize the personnel to any drilling location at any time during the course of the Contract depending upon operational requirement. Thus Contractor is required to fulfill their obligation on Mobilization/ Demobilization of personnel upon receipt of appropriate notice from the Company.

H. OPERATING DAY RATE CHARGES FOR PERSONNEL (ODRP)

- i) The **ODRP** shall be payable for personnel with **Well Test Packer & Accessories** for the period when the Test Packer is lowered below the Rotary table until it is successfully set, pressure tested and setting tools are pulled out above the rotary table.
- ii) The **ODRP** shall be payable for personnel with **Wellbore Clean-out and Liner Top negative test equipment** for the period when the Wellbore Cleanout and Liner Top negative test assemblies are lowered below the rotary table until they are pulled out above the rotary table after completion of the job.
- iii) The **ODRP** shall be payable for personnel with **Service Packers** for the period when the Service Packer including sub-assemblies is lowered below the rotary table until they are pulled out above the rotary table after completion of the job.

- iv) The **ODRP** shall be payable for personnel with **Bridge Plug and Cement Retainers** for the period when the respective tool is lowered below the rotary table until the tool is successfully set, pressure tested and setting tools are pulled out above the rotary table.
- v) The **ODRP** shall be payable for personnel with **Milling and Retrieving assemblies** for the period when the respective milling and retrieving assembly is lowered below the rotary table until they are pulled out above the rotary table after completion of the job.
- vi) The **ODRP** will be considered on day rate basis for a day of 24 hours. For any time in part thereof, the charges shall be computed on pro-rata basis.
- vii) The **ODRP** shall not be payable if the Contractor's tool/equipment fails to perform, for any reason in the duration of operation until the equipment/tool is put back in to operating condition.

There will be no other charge payable to the Contractor "Job-Wise" or "Job-Nature" wise.

I. STANDBY DAY RATE CHARGES FOR PERSONNEL [SDRP]

- i) **SDRP** for Contractor's personnel shall be payable for the period, the Contractor completes Mobilization of Contractor's personnel at the designated Location till the Demobilization notice to Contractor's Personnel is served by Company Representative.
- ii) **SDRP** caters to idle time against temporary halt due to operational reasons.
- iii) **SDRP** shall cease with effect from the day, the Company serves "demobilization notice" to the Contractor's Personnel.
- iv) **SDRP** will be payable per 24 hours a day (pro-rata basis for part thereof up to the completed full hours only) and will be applicable against temporary halt of operations due to repair/ shut down of tools/ Equipment etc.
- v) No **SDRP** will be payable when the person is entitled for **ODRP**.
- vi) **SDRP** shall **not** be payable for the period when the Contractor's equipment remains in-operative or non-functional to carry out assigned jobs, i.e. during **Zero Rate**.

J. ZERO RATE

Notwithstanding any provision in this Contract, however, subject clause E i). b). **NO** charges shall be payable for the period, the job or activity assigned to the Contractor is halted due to break-down of Contractor's tools/equipment, non-availability of key personnel or for any other reason whatsoever attributable to the Contractor.

K. DAY RATE FOR TOOLS / EQUIPMENT / PERSONNEL DURING FORCE MAJEURE:

- i) All rates quoted by Contractor shall be restricted to 50% of respective charges under above circumstances. This will be considered as Force Majeure Rate.
- ii) The Force Majeure Rate shall be payable during the first 10 days period of Force Majeure in case of all operations. No payment shall accrue to the Contractor beyond the first 10 days period unless mutually agreed upon.

L. GENERAL NOTE:

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

END OF SECTION - III

END OF PART - II



OIL INDIA LIMITED
(A Govt. of India Enterprise)
KG Basin Project
D.No.11-4-7; 3RD FLOOR,
NOOKALAMMA TEMPLE STREET
RAMARAOPET, KAKINADA-533004

TEL: (91) 884-2302176
E-mail: kgbasin@oilindia.in
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Website: www.oil-india.com

PROFORMA - A

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

Srl #	Item Description	Qty/ Unit	Rate	Total	Freight & Insurance	CIF Value	Port & other charge	Landed Cost	Is it re-exportable?	Year of Mfg.	HSN Code
A	B	C	D	E = C x D	F	G = F + E	H	I = G+H	J	K	L

- (1) The items which are not of consumable in nature and required to be re-exported outside India after completion of the Contract should be indicated as "YES" in column "J".
- (2) The items, which are of consumable in nature, should be indicated as "PARTLY" in column "J".
- (3) For estimation of applicable customs duty, the Contractors are required to indicate customs tariff code (i.e. HSN Code) of each item in column "L".

Authorized Person's Signature: _____

Name: _____

Seal of the Contractor:



OIL INDIA LIMITED
(A Govt. of India Enterprise)
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PROFORMA-B
PRICE BID FORMAT

Currency of Bid: _____

a. WELL COMPLETION EQUIPMENT – PACKER, BRIDGE PLUG, CEMENT RETAINER AND MILLING/RETRIEVING ASSEMBLIES (TOR-SECTION-3 AND SECTION-4)

1.0 Price Schedule for Well Test Packer and Accessories

The Price Schedule for Well Test Packer and Accessories consists of three sections, i.e. Consumable Item Cost, Rental Equipment Charges and Personnel Charges.

1.1 Consumable Item Cost

Consumable Item cost for Well Test Packer and Accessories should be quoted in the format as below. The cost for FIRM and OPTIONAL items should be quoted separately in respective sections.

1.1.1 Consumable Item Cost - FIRM

Cost for FIRM consumable items for **Well Test Packer and Accessories** should be quoted in the format as below:

S.No.	Item Code	Item Description	Unit	Quantity (A)	Landed Cost at Kakinada for EACH Quantity (B)	TOTAL (A*B)
					--/Unit	--
1	3.2	Test Packer Assembly				

1.1	3.2.1	7.0" Permanent Test Packer	Each	8			
1.2	3.2.2	4.0" Seal Bore Extension	Each	8			
1.3	3.2.3	4.0" Wireline Re-entry Guide	Each	8			
1.4	3.2.4	4.0" Locator Seal Assembly	Each	3			
1.5	3.2.4.RK	Redressing Kit for 4.0" Locator Seal Assembly	Set	6			
1.6	3.2.5	4.0" Seal Assembly To Tail Pipe Adaptor	Each	3			
2	3.3	Zone Isolation System					
2.1	3.3.1	4.5" HPHT Cast Iron Bridge Plug	Each	6			
3	TOTAL COST for FIRM Consumable Items for Well Test Packer and Accessories & Zone Isolation Equipment = Total of 1 + 2						

1.1.2 Consumable Item Cost – OPTIONAL

Cost for OPTIONAL consumable items for Well Test Packer and Accessories should be quoted in the format as below:

S.No.	Item Code	Item Description	Unit	Quantity (A)	Landed Cost at Kakinada for EACH Quantity (B)	TOTAL (A*B)	
					--/Unit	--	
1	3.1	CRA Production Packer Assembly					
1.1	3.1.1	7" CRA Permanent Production Packer	Each	3			
1.2	3.1.2	4.0" CRA Seal Bore Extension	Each	3			
1.3	3.1.3	4.0" CRA Wireline Re-entry Guide	Each	3			

1.4	3.1.4	4.0" CRA Locator Seal Assembly	Each	3		
1.5	3.1.4.RK	Redressing Kit for 4.0" CRA Locator Seal Assembly	Set	2		
1.6	3.1.5	4.0" Seal Assembly To Tail Pipe Adaptor	Each	3		
2 TOTAL COST for OPTIONAL Consumable Items for Well Test Packer and Accessories						

1.2 Rental Equipment Charges

Rental Equipment Charges for Well Test Packer and Accessories should be quoted in the format as below:

S.No.	Item Code	Item Description	Mobilization Charges (A)	Demobilization Charges (B)	Local Transport Charges (C)	Monthly Rental Charges (D)	Operating Day Rate Charges (E)	Operating Days (F)	TOTAL = A + B + C*5 + D*12 + E*F
			--	--	-- /Instance	-- /Month	-- /Day	Days	--
1	3.4	Test Packer & HPHT Bridge Plug Setting Tools							
1.1	3.4.1	7" Test Packer WLPSA						2	
1.2	3.4.2	7" Test Packer WLAK						2	
1.3	3.4.3	7" Test Packer Hydraulic Setting Tool						12	
1.4	3.4.4	4.5" HPHT Bridge Plug WLPSA						2	
1.5	3.4.5	4.5" HPHT Bridge Plug						2	

	WLAK							
2	TOTAL COST for Rental Equipment for Well Test Packer and Accessories							

Note:

- Bidders are required to maintain 1 (One) set of above tools / equipment at site along with 1 (One) back-up set to ensure uninterrupted operations. The cost of maintaining a back-up set of tools should be included in the above estimates and there will be no extra charges payable for back-up equipment / tools.
- Monthly Rental Charges will be payable for the entire duration of the contract, during which the respective tool / equipment will be available for use by the Company.
- Operating Charges will be payable in addition to the Monthly Rental Charges as soon as the respective tool is lowered below the Rotary Table at the beginning of the planned job and will stop as soon as the tool is recovered at Rotary Table at the end of the planned job.
- To calculate the **TOTAL** value of the contract for bid evaluation purposes only, **12 month** duration has been estimated for payment of Monthly Rental Charges, **5 instances** of Local Transport has been estimated, and **2 to 12 days** duration has been estimated for payment of Operating Day Rate Charges. Actual charges shall be payable based on the actual duration for which the respective tool is rented and operated.

1.3 Personnel Charges for Well Test Packer and Accessories

Personnel Charges for setting Well Test Packer and Accessories should be quoted in the format as below:-

S.No.	Description	Unit	Qty. (X)	Landed Cost at Kakinada for EACH Quantity (Y)	TOTAL (Z = X*Y)
				--/Unit	--
1.	Packer / Bridge Plug Setting Expert				Sum Total of

					1a+1b+1c+1d
1a.	- Mobilization Charges	Lump Sum	10		
1b.	- Demobilization Charges	Lump Sum	10		
1c.	- Operating Day Rate (ODR)	Days	20		
1d.	- Stand-by Day Rate (SDR)	Days	20		
2.	TOTAL COST for Personnel for Well Test Packer and Accessories including Mob Demob				Sum TOTAL of 1a+1b+1c+1d

1.4 Charges for Third Party Inspection (TPI)

Charges for Third Party Inspection shall be quoted in the format as below:

S.No.	Description	Unit	Qty. (X)	Rate for EACH Qty. (Y)	TOTAL (Z = X*Y)
				--/Unit	--
1.	Third Party Inspection Charges	Lump Sum	1		
2.	TOTAL COST for Third Party Inspection (TPI)				

1.5 Total Charges for Well Test Packer and Accessories

Total Contract Value for Well Test Packer and Accessories should be calculated as a sum of FIRM Consumable Items Cost, Rental Equipment Charges and Personnel Charges as below:

TOTAL CONTRACT VALUE FOR WELL TEST PACKER AND ACCESSORIES = T1	TOTAL FIRM CONSUMABLE ITEM COST (--)
	+
	TOTAL RENTAL EQUIPMENT CHARGES (--)
	+
	TOTAL PERSONNEL CHARGES (--)
	+
	TOTAL COST FOR TPI (--)

Note:

- Cost of OPTIONAL Consumable items will not be a part of Bid Evaluation Process.
- Cost of Redress kits as per Item Code 3.1.4.RK and 3.2.4.RK should include the cost of redressing the respective equipment with the offered redress kits.

2.0 Price Schedule for Cement Retainers, Bridge Plugs and Milling Assemblies

The Price Schedule for Cement Retainers, Bridge Plugs and Milling Assemblies consists of three sections, i.e. Consumable Item Cost, Rental Equipment Charges and Personnel Charges.

2.1 Consumable Item Cost

Consumable Item cost for **Cement Retainers, Bridge Plugs and Milling Assemblies** should be quoted in the format as below:

S.No.	Item Code	Item Description	Unit	Quantity (A)	Landed Cost at Kakinada for EACH Quantity (B)	TOTAL (A*B)
					--/Unit	--
1	4.1	Cement Retainers				
1.1	4.1.1	7" Mechanical Set Cement Retainer	Each	3		

1.2	4.1.2	9.625" Mechanical Set Cement Retainer	Each	2		
1.3	4.1.2.3	9.625" Conversion Kit To CIBP	Set	2		
1.4	4.1.2.4	9.625" Conversion Kit To Wireline Set	Set	2		
1.5	4.1.3	13.625" Mechanical Set Cement Retainer	Each	1		
1.6	4.1.3.2	13.625" Conversion Kit To CIBP	Set	1		
2	4.2	Mechanical Set Retrievable Bridge Plug				
2.1	4.2.1	9.625" Mechanical Set Retrievable Bridge Plug	Each	2		
3	4.3	Specialty HPHT Drillable Bridge Plug				
3.1	4.3.1	4.5" HPHT Drillable Bridge Plug	Each	3		
3.2	4.3.2	7" HPHT Drillable Bridge Plug	Each	3		
4	TOTAL COST for Consumable Items for Cement Retainers, Bridge Plugs and Milling Assemblies = Total of 1 + 2 + 3					

2.2 Rental Equipment Charges

Rental Equipment Charges for Cement Retainers, Bridge Plugs and Milling Assemblies should be quoted in the format as below:

S.No.	Item Code	Item Description	Mobilization Charges (A)	Demobilization Charges (B)	Local Transport Charges (C)	Monthly Rental Charges (D)	Operating Day Rate Charges (E)	Operating Days (F)	TOTAL = A + B + C*1 + D*6 + E*F
			--	--	-- /Instance	-- /Month	-- /Day	Days	--
1	4.1	Cement Retainer							
1.1	4.1.1.1	7" Mechanical						9	

		Cement Retainer Running/Setting Tool							
1.2	4.1.2.1	9.625" Mechanical Cement Retainer Running/Setting Tool						4	
1.3	4.1.2.2	9.625" Wireline Set Cement Retainer Stinger						4	
1.4	4.1.2.5	9.625" Cement Retainer WLAK						2	
1.5	4.1.2.6	9.625" Cement Retainer WLPSA						2	
1.6	4.1.3.1	13.625" Mechanical Cement Retainer Running/Setting Tool						2	
2	4.2	Mechanical Set Retrievable Bridge Plug							
2.1	4.2.1.1	9.625" Mechanical Set Retrievable Bridge Plug Setting Tool						2	
2.2	4.2.1.2	9.625" Bridge Plug Retrieving Tool						2	
3	4.3	HPHT Drillable Bridge Plug							
3.1	4.3.1.1	4.5" HPHT Drillable Bridge Plug WLAK						2	

3.2	4.3.1.2	4.5" HPHT Drillable Bridge Plug WLPSA						2	
3.3	4.3.2.1	7" HPHT Drillable Bridge Plug Hydraulic Setting Tool with Redressing Kits						6	
3.4	4.3.2.2	7" HPHT Drillable Bridge Plug WLAK						2	
3.5	4.3.2.3	7" HPHT Drillable Bridge Plug WLPSA						2	
4	4.4	Milling and Retrieving Assembly							
4.1	4.4.1	Milling and Retrieving Assembly for 7" Test Packer						15	
4.2	4.4.2	Milling and Retrieving Assembly for 4.5" HPHT Drillable Bridge Plug						15	
4.3	4.4.3	Milling and Retrieving Assembly for 7" HPHT Drillable Bridge Plug						15	
5	TOTAL COST for Rental Equipment Charges for Cement Retainers, Bridge Plugs and Milling Assemblies = Total of 1 + 2 + 3 + 4								

Note:

- If certain tools can be used for two or more different type of operations, then Mobilization, Demobilization and Monthly Rental for such tools should only be quoted at one place. For eg: if the tool offered under item #3.4.1 can fulfill the functionality required for item #4.2.1.6, item #4.3.2.3, then Mobilization, Demobilization and Monthly Rental charges for #4.2.1.6 and #4.3.2.3 should not be quoted as it will be already covered under item #3.4.1.
- Bidders are required to maintain 1 (One) set of above tools / equipment at site along with 1 (One) back-up set to ensure uninterrupted operations. The cost of maintaining a back-up set of tools should be included in the above estimates and there will be no extra charges payable for back-up equipment / tools.
- Monthly Rental Charges will be payable for the entire duration of the contract, during which the respective tool / equipment will be available for use by the Company.
- Operating Charges will be payable in addition to the Monthly Rental Charges as soon as the respective tool is lowered below the Rotary Table at the beginning of the planned job and will stop as soon as the tool is recovered at Rotary Table at the end of the planned job.
- To calculate the **TOTAL** value of the contract for bid evaluation purposes only, **6 month** duration has been estimated for payment of Monthly Rental Charges, **1 instance** of Local Transport has been estimated, and **2 to 15 days** duration has been estimated for payment of Operating Day Rate Charges. Actual charges shall be payable based on the actual duration for which the respective tool is rented and operated.

2.3 Personnel Charges for Cement Retainers, Bridge Plugs and Milling Assemblies

Personnel Charges for setting Well Test Packer and Accessories should be quoted in the format as below:-

S.No.	Description	Unit	Qty. (X)	Rate EACH Qty. (Y)	TOTAL (Z = X*Y)
				--/Unit	--
1.	Cement Retainer / Bridge Plug Setting Expert				Sum Total of 1a + 1b + 1c + 1d

TENDER NO. CEG4091L15

1a.	- Mobilization Charges	Lump Sum	10		
1b.	- Demobilization Charges	Lump Sum	10		
1c.	- Operating Day Rate (ODR)	Days	20		
1d.	- Stand-by Day Rate (SDR)	Days	20		
2.	Milling and Retrieving Expert				Sum Total of 2a + 2b + 2c + 2d
2a.	- Mobilization Charges	Lump Sum	9		
2b.	- Demobilization Charges	Lump Sum	9		
2c.	- Operating Day Rate (ODR)	Days	45		
2d.	- Stand-by Day Rate (SDR)	Days	18		
2.	TOTAL COST for Personnel for Cement Retainers, Bridge Plugs and Milling Assemblies including Mob and Demob = Total of 1 + 2				

2.4 Total Charges for Cement Retainers, Bridge Plugs and Milling Assemblies

Total Contract Value for Cement Retainers, Bridge Plugs and Milling Assemblies should be calculated as a sum of Consumable Items Cost, Rental Equipment Charges and Personnel Charges as below:

TOTAL CONTRACT VALUE FOR CEMENT RETAINERS, BRIDGE PLUGS AND MILLING ASSEMBLIES = T2	TOTAL CONSUMABLE ITEM COST (--)
	+
	TOTAL RENTAL EQUIPMENT CHARGES (--)
	+
	TOTAL PERSONNEL CHARGES (--)

TOTAL CONTRACT VALUE FOR WELL COMPLETION EQUIPMENT = T1 + T2

b. WELLBORE CLEANOUT & LINER TOP NEGATIVE TEST EQUIPMENT (TOR-SECTION-5)

3.0 Price Schedule for Wellbore Cleanout and Liner Top Negative Test Equipment

The Price Schedule for Wellbore Cleanout and Liner Top Negative Test Equipment consists of two sections, i.e. Rental Equipment Charges and Personnel Charges.

3.1 Rental Equipment Charges

Rental Equipment Charges for **Wellbore Cleanout and Liner Top Negative Test Equipment** should be quoted in the format as below:

S.No.	Item Code	Item Description	Mobilization Charges (A)	Demobilization Charges (B)	Local Transport Charges (C)	Monthly Rental Charges (D)	Operating Day Rate Charges (E)	Operating Days (F)	TOTAL = A + B + C*1 + D*6 + E*F
			--	--	-- /Instance	-- /Month	-- /Day	Days	--
1	5.1	7" Casing Clean-Out Assembly						4	
2	5.2	4.5" Casing Clean-Out Assembly						2	
3	TOTAL COST for Rental Equipment for Well Test Packer and Accessories = Total of 1 + 2								

Note:

- Bidders are required to maintain 1 (One) set of above tools / equipment at site along with 1 (One) back-up set to ensure uninterrupted operations. The cost of maintaining a back-up set of tools should be included in the above estimates and there will be no extra charges payable for back-up equipment / tools.
- Monthly Rental Charges will be payable for the entire duration of the contract, during which the respective tool / equipment will be available for use by the Company.
- Operating Charges will be payable in addition to the Monthly Rental Charges as soon as the respective tool is lowered below the Rotary Table at the beginning of the planned job and will stop as soon as the tool is recovered at Rotary Table at the end of the planned job.
- To calculate the **TOTAL** value of the contract for bid evaluation purposes only, **6 month** duration has been estimated for payment of Monthly Rental Charges, **1 instances** of Local Transport has been estimated, and **2 to 4 days** duration has been estimated for payment of Operating Day Rate Charges. Actual charges shall be payable based on the actual duration for which the respective tool is rented and operated.

3.2 Personnel Charges for Wellbore Cleanout and Liner Top Negative Test Equipment

Personnel Charges for setting Wellbore Cleanout and Liner Top Negative Test Equipment should be quoted in the format as below:-

S.No.	Description	Unit	Qty. (X)	Rate EACH Qty. (Y)	TOTAL (Z = X*Y)
				--/Unit	--
1.	Wellbore Cleanout and Liner Test Expert				Sum TOTAL of 1a+1b+1c+1d
1a.	- Mobilization Charges	Lump Sum	3		
1b.	- Demobilization Charges	Lump Sum	3		
1c.	- Operating Day Rate (ODR)	Days	6		
1d.	- Stand-by Day Rate (SDR)	Days	6		

2.	TOTAL COST for Personnel for Wellbore Cleanout and Liner Top Negative Test Equipment including Mob and Demob = Total of 1	
-----------	--	--

3.3 Total Charges for Wellbore Cleanout and Liner Top Negative Test Equipment

Total Contract Value for Wellbore Cleanout and Liner Top Negative Test Equipment should be calculated as a sum of Rental Equipment Charges and Personnel Charges as below:

TOTAL CONTRACT VALUE FOR WELLBORE CLEANOUT AND LINER TOP NEGATIVE TEST EQUIPMENT	TOTAL RENTAL EQUIPMENT CHARGES (--) + TOTAL PERSONNEL CHARGES (--)
---	--

c. SERVICE PACKERS WITH UNLOADER VALVES (TOR-SECTION-6)

4.0 Price Schedule for Service Packers

The Price Schedule for Service Packers consists of two sections, i.e. Rental Equipment Charges and Personnel Charges.

4.1 Rental Equipment Charges

Rental Equipment Charges for Service Packers should be quoted in the format as below. The cost for FIRM and OPTIONAL Rental Equipment should be quoted separately in respective sections.

4.1.1 FIRM Rental Equipment Charges

Cost for FIRM Rental Equipment for **Service Packers with unloader valve** should be quoted in the format as below:

S.No.	Item Code	Item Description	Mobilization Charges (A)	Demobilization Charges (B)	Local Transport Charges (C)	Monthly Rental Charges (D)	Operating Day Rate Charges (E)	Operating Days (F)	TOTAL = A + B + C*1 + D*6 + E*F
			--	--	--	--	-- /Day	Days	--

TENDER NO. CEG4091L15

					/Instance	/Month			
1	6.1	7" Service Packer - PRIMARY						12	
2	6.2	7" Service Packer Unloader Valve - PRIMARY						12	
3	6.3	9.625" Service Packer - PRIMARY						4	
4	6.4	9.625" Service Packer Unloader Valve - PRIMARY						4	
5	6.5	13.625" Service Packer						4	
6	6.6	13.625" Service Packer Unloader Valve						4	
7	TOTAL COST for FIRM Rental Equipment for Service Packers = Total of 1 + 2 + 3 + 4 + 5 + 6								

Note:

- Bidders are required to maintain 1 (One) set of above tools / equipment at site along with 1 (One) back-up set to ensure uninterrupted operations. The cost of maintaining a back-up set of tools should be included in the above estimates and there will be no extra charges payable for back-up equipment / tools.
- Monthly Rental Charges will be payable for the entire duration of the contract, during which the respective tool / equipment will be available for use by the Company.
- Operating Charges will be payable in addition to the Monthly Rental Charges as soon as the respective tool is lowered below the Rotary Table at the beginning of the planned job and will stop as soon as the tool is recovered at Rotary Table at the end of the planned job.

- To calculate the **TOTAL** value of the contract for bid evaluation purposes only, **6 month** duration has been estimated for payment of Monthly Rental Charges, **1 instances** of Local Transport has been estimated, and **4 to 12 days** duration has been estimated for payment of Operating Day Rate Charges. Actual charges shall be payable based on the actual duration for which the respective tool is rented and operated.

4.1.2 OPTIONAL Rental Equipment Charges

Cost for OPTIONAL Rental Equipment for Service Packers should be quoted in the format as below:

S.No.	Item Code	Item Description	Mobilization Charges (A)	Demobilization Charges (B)	Local Transport Charges (C)	Monthly Rental Charges (D)	Operating Day Rate Charges (E)	Operating Days (F)	TOTAL = A + B + C*1 + D*6 + E*F
			--	--	-- /Instance	-- /Month	-- /Day	Days	--
1	6.1.1.1	7" Service Packer - CONTINGENT						12	
2	6.2.1.1	7" Service Packer Unloader Valve - CONTINGENT						12	
3	6.3.1.1	9.625" Service Packer - CONTINGENT						4	
4	6.4.1.1	9.625" Service Packer Unloader Valve - CONTINGENT						4	
7	TOTAL COST for OPTIONAL Rental Equipment for Service Packers = Total of 1 + 2 + 3 + 4								

Note:

- Cost of OPTIONAL Rental Equipment will not be a part of Bid Evaluation Process.
- Bidders are required to maintain 1 (One) set of above tools / equipment at site along with 1 (One) back-up set to ensure uninterrupted operations. The cost of maintaining a back-up set of tools should be included in the above estimates and there will be no extra charges payable for back-up equipment / tools.
- Monthly Rental Charges will be payable for the entire duration of the contract, during which the respective tool / equipment will be available for use by the Company.
- Operating Charges will be payable in addition to the Monthly Rental Charges as soon as the respective tool is lowered below the Rotary Table at the beginning of the planned job and will stop as soon as the tool is recovered at Rotary Table at the end of the planned job.
- To calculate the **TOTAL** value of the contract for bid evaluation purposes only, **6 month** duration has been estimated for payment of Monthly Rental Charges, **1 instances** of Local Transport has been estimated, and **4 to 12 days** duration has been estimated for payment of Operating Day Rate Charges. Actual charges shall be payable based on the actual duration for which the respective tool is rented and operated.

4.2 Personnel Charges for Service Packers

Personnel Charges for Service Packers should be quoted in the format as below:-

S.No.	Description	Unit	Qty. (X)	Rate EACH Qty. (Y)	TOTAL (Z = X*Y)
				--/Unit	--
1.	Service Packer / Pressure Test Expert				Sum TOTAL of 1a+1b +1c+1d
1a.	– Mobilization Charges	Lump Sum	10		
1b.	– Demobilization Charges	Lump Sum	10		

1c.	- Operating Day Rate (ODR)	Days	20		
1d.	- Stand-by Day Rate (SDR)	Days	20		
2.	TOTAL COST for Personnel for Service Packers including Mob and Demob = Total of 1				

4.3 Total Charges for Service Packers

Total Contract Value for Service Packers should be calculated as a sum of FIRM Rental Equipment Charges and Personnel Charges as below:

TOTAL CONTRACT VALUE FOR SERVICE PACKERS WITH UNLOADER VALVE	TOTAL FIRM RENTAL EQUIPMENT CHARGES (--) + TOTAL PERSONNEL CHARGES (--)
---	---

Note:

- (i) **The evaluations of each group i.e. Srl. a: WELL COMPLETION EQUIPMENT – PACKER, BRIDGE PLUG, CEMENT RETAINER AND MILLING/RETRIEVING ASSEMBLIES (TOR-SECTION-3 AND SECTION-4), Srl. b: WELLBORE CLEANOUT & LINER TOP NEGATIVE TEST EQUIPMENT (TOR-SECTION-5) and Srl. c: SERVICE PACKERS WITH UNLOADER VALVES (TOR-SECTION-6) will be done individually and the same are capable of awarding separately.**
- (ii) **Bidder(s) to confirm to maintain their prices as quoted for Additional Items/Additional quantities against each Item (marked with Blue colour in TOR) during the tenure of the Contract.**
- (iii) **The consumables-Cement Retainers, Bridge Plugs, Milling Assemblies, Packers etc. against which Landed cost at well site/Contractor’s base to be quoted shall be new, of recent make, of the best quality and workmanship and shall be guaranteed by Contractor for a period of 18 months from the date of shipment or 12 months from the date of receipt at destination, whichever is earlier. Company also reserves the right to procure these items on staggered basis**

Name of the Authorized Signatory: _____

Name of the Firm/Service Provider/Bidder: _____

PROFORMA-C

BID FORM

**To: GENERAL MANAGER (KGB&BEP)
OIL INDIA LIMITED,
D.No.11-4-7; 3rd Floor
Nookamma Temple Street
Ramaraopeta, Kakinada-533004
Andhra Pradesh, India**

Sub: Tender No. -----

Gentlemen,

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

We undertake, if our Bid is accepted, to commence the work within (_____) days/months calculated from the date of issue of Letter of Award (LOA).

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

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

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

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

Dated this _____ day of _____ 2014

Name of the Authorized Signatory: _____

Name of the Firm/Service Provider/Bidder: _____

PROFORMA - D

CERTIFICATE OF COMPLIANCE WITH RESPECT TO BRC

We _____ (Name of the Contractor) hereby confirm that all the conditions given in the Bid Rejection Criteria (BRC) of the Bid document of Tender No. ----- are acceptable to us and we have not made any deviations from the same or put forward any additional condition in our offer in this respect. It is also confirmed that the supporting documents with regard to Eligibility Criteria of the bidder, laid down in the Bid Document are duly submitted in the Envelope 'C' containing the Techno-commercial Bid.

Name of the Authorized Signatory: _____

Name of the Firm/Service Provider/Bidder: _____

PROFORMA-E**STATEMENT OF NON-COMPLIANCE (excepting BRC)
(Only exceptions/deviations to be rendered)**

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

Section No.	Clause No. (Page No.)	Non-Compliance	Remarks

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

Name of the Authorized Signatory: _____

Name of the Firm/Service Provider/Bidder: _____

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

PROFORMA - F

FORM OF BID SECURITY (BANK GUARANTEE)

To: GENERAL MANAGER (KGB & BEP),
OIL INDIA LIMITED,
D.NO.11-4-7; 3RD FLOOR
NOKALAMMA TEMPLE STREET
RAMARAOPETA, KAKINADA-533004
Andhra Pradesh, India

WHEREAS, (Name of Bidder) _____ (hereinafter called "the Bidder") has submitted their offer Dated _____ for the provision of certain oilfield services (hereinafter called "the Bid") against OIL INDIA LIMITED, Kakinada, Andhra Pradesh, India (hereinafter called the Company)'s tender No.: _____. KNOW ALL MEN BY these presents that we (Name of Bank) _____ of (Name of Country) _____ having our registered office at _____ (hereinafter called "Bank") are bound unto the Company in the sum of (*) for which payment well and truly to be made to Company, the Bank binds itself, its successors and assignees by these presents. SEALED with the common seal of the said Bank this _____ day of _____ 2014.

THE CONDITIONS of these obligations are:

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

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

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

SIGNATURE AND SEAL OF THE GUARANTORS _____
Name of Bank & Address _____
Date: Place: _____

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

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

PROFORMA - G

FORM OF PERFORMANCE BANK GUARANTEE

To: GENERAL MANAGER (KGB & BEP),
OIL INDIA LIMITED,
D.NO.11-4-7; 3RD FLOOR
NOKALAMMA TEMPLE STREET
RAMARAOPET, KAKINADA-533004
Andhra Pradesh, India

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

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

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

We also agree that the Guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by the OIL in writing. This guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the Contractor and shall remain valid, binding and operative against the Bank.

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

This guarantee is valid until the date _____ (calculated at 6 months after Contract completion date).

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

PROFORMA-H

CONTRACT FORM

This Agreement is made on ____ day of _____ between Oil India Limited, a Government of India Enterprise, incorporated under the Companies Act 1956, having its registered office at Duliajan in the State of Assam having its Project Office at 11-4-7, Nookalamma Temple Street, Kakinada-533004, Andhra Pradesh, India , hereinafter called the "Company" which expression unless repugnant to the context shall include executors, administrators and assignees on the one part, and M/s. _____ (Name and address of Contractor) hereinafter called the "Contractor" which expression unless repugnant to the context shall include executors, administrators and assignees on the other part,

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

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

WHEREAS, Company had issued a firm Letter of Award No. _____ dated _____ based on Offer No. _____ dated _____ submitted by the Contractor against Company's Tender No. ----- . All these aforesaid documents shall be deemed to form and be read and construed as part of this agreement/contract. However, should there be any dispute arising out of interpretation of this contract in regard to the terms and conditions with those mentioned in Company's Bid Document and subsequent letters including the Letter of Intent and Contractor's offer and their subsequent letters, the terms and conditions attached hereto shall prevail. Changes, additions or deletions to the terms of the contract shall be authorized solely by an amendment to the contract executed in the same manner as this contract.

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

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. In addition to documents herein above, the following Sections and Annexures attached herewith shall be deemed to form and be read and construed as part of this agreement viz.:
 - (a) Section-I indicating the General Conditions of this Contract;
 - (b) Section-II indicating the Terms of Reference/Technical Specifications;
 - (c)
 - (d) Section-III indicating the Schedule of Rates;
3. In consideration of the payments to be made by the Company to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Company to provide the Services and to remedy defects therein in conformity in all respect with the provisions of this Contract.

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

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

Signed, Sealed and Delivered,

For and on behalf of
Company (Oil India Limited)

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

Name:
Status:
In presence of
1.
2.

Name:
Status:
In presence of
1.
2.

PROFORMA - I

PROFORMA LETTER OF AUTHORITY

TO

M/s. Oil India Limited,
General Manager (KGB&BEP),
D.NO.11-4-7; 3RD FLOOR
NOKALAMMA TEMPLE STREET
RAMARAOPET, KAKINADA-533004
Andhra Pradesh, India

Sub: OIL's Tender No. -----

Sir,

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

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

Yours Faithfully,

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

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

PROFORMA-J

AUTHORISATION FOR ATTENDING BID OPENING

TO

Date: _____

GENERAL MANAGER (KGB & BEP),
OIL INDIA LIMITED,
D.NO.11-4-7; 3RD FLOOR
NOKALAMMA TEMPLE STREET
RAMARAOPETA, KAKINADA-533004
Andhra Pradesh, India

Sub: OIL's Tender No. -----

Sir,

We authorize Mr. /Mrs. _____ (Name and address) to be present at the time of opening of the above Tender due on _____ on our behalf.

Yours Faithfully,

Authorized Person's Signature: _____

Name: _____

Designation: _____

Seal of the Bidder:

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

PROFORMA - K**BIO-DATA AND EXPERIENCE OF PERSONNEL**

Name:

Educational Qualification:

Certifications: :

Experience in last five years

Year	Date		Name of Organization	Client/ Project	No. of days worked	No. of Cementing jobs done	Type of wells drilled	Worked as
	From	To						

Format for Other personnel

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

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

NOTE: TO ATTACH ALL SUPPLEMENTARY DOCUMENTS.

Name of the Authorized Signatory: _____**Name of the Firm/Service Provider/Bidder:** _____

ANNEXURE – I

INTEGRITY PACT

Between

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

And

----- hereinafter referred to as “The Bidder/Contractor”

Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for services against Tender No. CEG4091L15. 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:-

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.

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.

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

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

Section 2 – Commitments of the Bidder/Contractor

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

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

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.

The Bidder/Contractor will not commit any offence under the relevant Anti-corruption 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.

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 credibility 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.

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.

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.

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.

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

Section 4 – Compensation for Damages

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.

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.

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

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.

The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.

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)

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.

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.

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.

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.

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.

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.

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

This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi.

Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

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

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

Place

Date

for the Bidder/Contractor

Witness 1:

Witness 2:

Attachment - I**FORMAT OF AGREEMENT BETWEEN BIDDER AND THEIR PARENT COMPANY / 100% SUBSIDIARY COMPANY (As the case may be)**

(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

This agreement made this ___ day of ___ month ___ year by and between M/s. _____ (Fill in the Bidder's full name, constitution and registered office address) hereinafter referred to as bidder on the first part and M/s. _____ (Fill in full name, constitution and registered office address of Parent Company/Subsidiary Company, as the case may be) hereinafter referred to as "Parent Company/Subsidiary Company (Delete whichever not applicable)" of the other part:

WHEREAS

M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their tender No. _____ for _____ and

M/s. _____ (Bidder) intends to bid against the said tender and desires to have technical support of M/s. _____ [Parent Company/ Subsidiary Company-(Delete whichever not applicable)] and whereas Parent Company/Subsidiary Company (Delete whichever not applicable) represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

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

1. M/s. _____ (Bidder) will submit an offer to OIL for the full scope of work as envisaged in the tender document as a main bidder and liaise with OIL directly for any clarifications etc. in this context.
2. M/s. _____ (Parent Company/Subsidiary Company (Delete whichever not applicable)) undertakes to provide technical support and expertise, expert manpower and procurement assistance and project management to support the bidder to discharge its obligations as per the Scope of work of the tender / Contract for which offer has been made by the Parent Company/Subsidiary Company (Delete whichever not applicable) and accepted by the bidder.
3. This agreement will remain valid till validity of bidder's offer to OIL including extension if any and till satisfactory performance of the contract in the event the contract is awarded by OIL to the bidder
4. It is further agreed that for the performance of work during contract period bidder and Parent Company/Subsidiary Company (Delete whichever not applicable) shall be jointly and severally responsible to OIL for satisfactory execution of the contract.
5. However, the bidder shall have the overall responsibility of satisfactory execution of the contract awarded by OIL.

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

For and on behalf of
(Bidder)

For and on behalf of
(Parent Company/Subsidiary
Company (Delete whichever not
applicable)

M/s.
Witness:
1)
2)

M/s.
Witness:
1)
2)

Attachment – II

PARENT COMPANY/ SUBSIDIARY COMPANY GUARANTEE (Delete whichever not applicable)

(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

DEED OF GUARANTEE

THIS DEED OF GUARANTEE executed at this day of by M/s (mention complete name) a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at hereinafter called “the Guarantor” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS

M/s Oil India Limited, a company duly registered under the Companies Act 1956, having its Registered Office at Duliajan in the State of Assam, India, and having an office, amongst others, at Kakinada, Andhra Pradesh, India hereinafter called “OIL” which expression shall unless excluded by or repugnant to the context thereof, be deemed to include its successor and assigns, invited tender number for on

M/s (mention complete name), a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at (give complete address) hereinafter called “the Company” which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successor and permitted assigns, have, in response to the above mentioned tender invited by OIL, submitted their bid number to OIL with one of the condition that the Company shall arrange a guarantee from its parent company guaranteeing due and satisfactory performance of the work covered under the said tender including any change therein as may be deemed appropriate by OIL at any stage.

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

The Company and the Guarantor have entered into an agreement dated as per which the Guarantor shall be providing technical and such other supports as may be necessary for performance of the work relating to the said tender.

Accordingly, at the request of the Company and in consideration of and as a requirement for OIL to enter into agreement(s) with the Company, the Guarantor hereby agrees to give this guarantee and undertakes as follows:

1. The Guarantor (Parent Company / **100% Subsidiary Company (Delete whichever not applicable)**) unconditionally agrees that in case of non-performance by the Company of any of its obligations in any respect, the Guarantor shall, immediately on receipt of notice of demand by OIL, take up

the job without any demur or objection, in continuation and without loss of time and without any cost to OIL and duly perform the obligations of the Company to the satisfaction of OIL.

2. The Guarantor agrees that the Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Company.
3. The Guarantor shall be jointly with the Company as also severally responsible for satisfactory performance of the contract entered between the Company and OIL.
4. The liability of the Guarantor, under the Guarantee, is limited to the 50% of the annualized contract price entered between the Company and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Company.
5. The Guarantor represents that this Guarantee has been issued after due observance of the appropriate laws in force in India. The Guarantor hereby undertakes that the Guarantor shall obtain and maintain in full force and effect all the governmental and other approvals and consents that are necessary and do all other acts and things necessary or desirable in connection therewith or for the due performance of the Guarantor's obligations hereunder.
6. The Guarantor also agrees that this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of, India.
7. The Guarantor hereby declares and represents that this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
8. The Guarantor represents and confirms that the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

For & on behalf of (Parent
Company/Subsidiary Company (Delete whichever not applicable))

M/s _____

Witness:

1. Signature _____
Full Name _____
Address _____

Signature _____
Name _____
Designation _____

Common seal of the Company

Witness:

2. Signature _____
- Full Name _____
- Address _____

**INSTRUCTIONS FOR FURNISHING PARENT/SUBSIDIARY COMPANY
GUARANTEE**

1. Guarantee should be executed on stamp paper of requisite value and notarised.
2. The official(s) executing the guarantee should affix full signature (s) on each page.
3. Resolution passed by Board of Directors of the guarantor company authorizing the signatory(ies) to execute the guarantee, duly certified by the Company Secretary should be furnished alongwith the Guarantee.
4. Following certificate issued by Company Secretary of the guarantor company should also be enclosed alongwith the Guarantee.
 “Obligation contained in the deed of guarantee No._____ furnished against tender No. _____ are enforceable against the guarantor company and the same do not, in any way, contravene any law of the country of which the guarantor company is the subject”

Attachment – III

FORMAT OF AGREEMENT BETWEEN BIDDER, THEIR SISTER SUBSIDIARY/CO-SUBSIDIARY COMPANY AND THE ULTIMATE PARENT/HOLDING COMPANY OF BOTH THE BIDDER AND THE SISTER SUBSIDIARY/CO-SUBSIDIARY (Strike out whichever is not applicable between Ultimate Parent and Holding Company. Similarly strike out whichever is not applicable between Sister Subsidiary and Co-subsidiary Company)

(TO BE EXECUTED ON STAMP PAPER OF REQUISITE VALUE AND NOTORISED)

This agreement made this ___ day of ___ month ___ year by and between M/s. _____ (Fill in Bidder's full name, constitution and registered office address) _____ hereinafter referred to as "Bidder" of the first part and

M/s. _____ (Fill in full name, constitution and registered office address of Sister Subsidiary/Co-subsidiary Company of the Bidder) herein after referred to as "Sister Subsidiary/ Co-subsidiary" of the second part and

M/s. _____ (Fill in the full name, constitution and registered office address of the Ultimate Parent/Holding Company's of both the subsidiaries) hereinafter referred to as "Ultimate Parent/ Holding Company" of the third part.

WHEREAS

M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their tender No. _____ for _____ and

M/s. _____ (Bidder) intends to bid against the said tender and desires to have a technical support of M/s. _____ (Sister Subsidiary/Co-subsidiary Company) and

Sister Subsidiary/Co-subsidiary Company represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the services as required by the bidder for successful execution of the contract, if awarded to the bidder.

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

1. M/s. _____ (Bidder) will submit an offer to OIL for the full scope of work as envisaged in the tender document.
2. M/s. _____ (Sister Subsidiary/Co-subsidiary Company) undertakes to provide technical support and expertise and expert manpower, material, if any, to support the bidder to discharge its obligations as per the Scope of work of the tender / Contract for which offer has been made by the bidder.
3. This agreement will remain valid till validity of bidder's offer to OIL including extension if any and also till satisfactory performance of the contract in the event the bid is accepted and contract is awarded by OIL to the bidder.
4. Sister Subsidiary/ Co-subsidiary Company unconditionally agrees that in case of award of contract to the Bidder, if the Bidder is unable to execute the contract, they shall, immediately on receipt of notice by OIL, take up the job without any demur or objection, in continuation without loss of time and

without any extra cost to OIL and duly perform the obligations of the Bidder/Contractor to the satisfaction of OIL.

5. The Ultimate Parent/Holding Company also confirms and undertakes that the commitment made by the Sister Subsidiary/ Co-subsidiary company in providing the technical support and technical expertise and expert manpower to support the bidder for execution of the contract are honoured.
6. The Ultimate Parent/Holding Company also takes full responsibility in getting the contract executed through the Sister subsidiary/ Co-subsidiary company in case the Bidder/Contractor is unable to execute the contract.
7. In witness whereof the parties hereto have executed this agreement on the date mentioned above.

For and on behalf of
(Bidder)

M/s.
Witness
1)
2)

For and on behalf of
(Sister Subsidiary / Co-
subsidiary)

M/s.
Witness
1)
2)

For and on behalf of
(Ultimate Parent /
Holding Company)

M/s.
Witness
1)
2)

Note: In case of contracts involving - (a) manufacture/supply (b) installation and commissioning (c) servicing and maintenance of any equipment, as the bidding company can draw on the experience of their multiple subsidiary sister/Co-subsidiary company (ies) specializing in each sphere of activity, i.e. (a) manufacture/supply (b) installation and commissioning (c) servicing and maintenance, therefore, in that case, the above format shall be signed by all the sister/Co-subsidiary company(ies) and necessary modifications may be made in the above format to include all sister subsidiaries.
