



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



# EPC TENDER



**BID PACKAGE**  
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**PART – 1**  
**INSTRUCTIONS**  
**TO BIDDERS**





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

## **1.0 BID DOCUMENTS**

- 1.1.** The services required, bidding procedures and contract terms are prescribed in the Bid Document. This Bid Document includes the following:
- a) A Forwarding Letter highlighting the following points:
    - i. Company's IFB No.
    - ii. Bid closing date and time
    - iii. Bid opening date and time
    - iv. Bid submission Mode
    - v. Bid opening place
    - vi. Bid validity, Mobilization time & Duration of contract
    - vii. The amount of Bid Security with validity
    - viii. The amount of Performance Guarantee with validity
    - ix. Quantum of liquidated damages for default in timely completion
  - b) Instructions to Bidders, (Part-1)
  - c) Bid Evaluation Criteria/Bid Rejection Criteria, (Part-2)
  - d) General Conditions of Contract, (Section-I) (Part-3)
  - e) Scope of Work/Technical Specification/Terms of Reference, (Section-II) (Part-3)
  - f) Special Conditions of Contract, (Section-III) (Part-3)
  - g) Schedule of Rates & Payment, (Section-IV) (Part-3)
  - h) Integrity Pact Proforma, (Proforma-A)
  - i) Bid Form, (Proforma-B)
  - j) Statement of Non-Compliance, (Proforma-C)
  - k) Bid Security Form, (Proforma-D)
  - l) Performance Security Form, (Proforma-E)
  - m) Agreement Form, (Proforma-F)
  - n) Proforma of Letter of Authority, (Proforma-G)
  - o) Authorization for Attending Bid Opening, (Proforma-H)
- 1.2.** 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.

## **2.0 TRANSFERABILITY OF BID DOCUMENTS:**

- 2.1.** Bid Documents are non-transferable. Bid can be submitted only in the name of the bidder in whose name the Bid Document has been issued.
- 2.2.** Unsolicited bids will not be considered and will be rejected straightway.



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### **3.0 AMENDMENT OF BID DOCUMENTS:**

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

### **4.0 PREPARATION OF BIDS**

#### **4.1 LANGUAGE OF BIDS:**

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

#### **4.2 BIDDER'S/AGENT'S NAME & ADDRESS:**

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

#### **4.3 DOCUMENTS COMPRISING THE BID:**

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

##### **A. TECHNICAL BID**

1. Complete technical details of the services and equipment specifications with Catalogue, etc.



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2. Documentary evidence established in accordance with Clause 8.0.
3. Bid Security (scanned) in accordance with Clause 9.0 hereunder.
4. Original Bid Security should be sent as per Clause No. 9.10 below.
5. Copy of Bid-Form **without indicating prices** in Proforma -B
6. Statement of Non-compliance as per Proforma-C
7. Copy of Priced Bid **without indicating prices** (Section IV and Annexure-A thereto)
8. Integrity Pact digitally signed by OIL's competent personnel as per Proforma-A attached with the bid document to be digitally signed by the bidder.

### **B. PRICED BID**

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

- (i) Price-Bid Format as per Section IV and Annexure-A thereto
- (ii) Bid Form as per Proforma-B

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

## **5.0 BID FORM:**

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

## **6.0 BID PRICE:**

- 6.1** Prices must be quoted by the Bidders online as per the price bid format available in OIL's E- Tender Portal in "Notes & Attachment" Tab. Unit prices must be quoted by the bidders, both in words and in figures.
- 6.2** Prices quoted by the successful bidder must remain firm during its performance of the Contract and is not subject to variation on any account.
- 6.3** All duties and taxes (excluding Service Tax) including Corporate Income Tax, Personal Tax, Assam Entry Tax, octroi 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



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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.

- 6.4** The Bidder shall quote their all-inclusive price for the entire Scope of Work in accordance with the Schedule of Rates & Payment (Section – IV) of this tender document covering, interalia, the following:

#### **I. Supplies**

**A. Foreign Supplies(Finished goods imported from outside India for the project):**

Prices of all such Foreign Supplies on CIF, Kolkata or elsewhere basis including packing & forwarding charges, and all duties, taxes etc. Foreign supplies for use in Construction of OCS at Barekuri are entitled for import on “NIL” Customs Duty for eligible items. OIL will issue necessary Recommendatory Letter to Directorate General of Hydrocarbons (DGH) (Govt. of India) for availing ‘NIL’ Customs Duty for eligible items for which bidders must declare CIF values in Schedule of Rates & Payment (Section-IV) of this Bidding Document. The imported goods shall be consigned in the name of OIL.

Foreign supplies not eligible for concessional Customs Duty shall be cleared on merit and bidder’s quoted prices shall include customs duty on such supplies.

**B. Indigenous Supplies (Goods to be supplied from within India including items having Import content):**

Prices of all such Indigenous Supplies on FOR dispatch point basis including packing & forwarding charges, and all duties, taxes & levies without any exception. Deemed Export benefit is also available (to the domestic bidder) for the eligible supplies and OIL will issue Project Authority Certificate to the Contractor as applicable.

- C.** Prices for commissioning spares and all mandatory spares and all tools & tackles.

#### **II. Inland Transportation**

**A. Foreign Supplies(Finished goods imported from outside India for this project):**

Cost of transportation of all goods from Kolkata port (nearest port of entry into India) and/or from any other place/ works in India up



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to the Project site, including port & customs clearance and other incidentals at port of entry, handling, forwarding, loading/unloading from ships, trucks etc

**B. Indigenous Supplies (Goods to be supplied from within India including item having Import content):**

Transportation cost of all goods from Contractor's works/ dispatch point up to the Project site, including handling, forwarding, loading/unloading from trucks etc.

**C. Transit Insurance cost:**

As applicable to Foreign & Indigenous supplies shall be included in the above transportation price. Beneficiary of all such insurance policies shall be OIL.

**III. Services (Design and Detailed Engineering and Site Works/ Installation & Commissioning)**

Cost of Services ( Design and Engineering and all site works/ Installations) as per Scope of Work under Terms of Reference & Technical Specifications (i.e. Section-II of this Bidding Document) and in accordance with General & Special Conditions of Contract (i.e. Section-I & Section-III respectively of this Bidding Document) related to (but not limited to) site transportation, safe storage/ security of all materials at site, erection/ construction/ creation/ installation, testing, acceptance tests and pre- commissioning, commissioning assistance for successful operation of the OCS including rectification of defects/ malfunctioning during commissioning.

**6.5 General**

- a) The bidder's quoted price against all items as per Schedule of Rates & Payment (Section-IV) of this tender document shall be inclusive of, amongst others, basic & detailed design.
- b) The Bidder's quoted total price shall be inclusive of installation & commissioning charges; all taxes, duties and levies as applicable on the Works/offered goods and services under the Contract. The Service Tax as applicable shall be extra to OIL's account.
- c) All demurrage, wharfage and other expenses incurred due to delayed clearance of goods, or for any other reasons, either at Indian port of entry, or at any clearing point, shall be to the successful bidder's account. The successful bidder shall be responsible for



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making all necessary arrangements for complying with all necessary formalities at the Indian port of entry.

- d) It is for the bidder to assess and ascertain applicability of taxes, duties, levies etc. applicable under the Contract. It is clearly understood that except for the specific provision covered in these conditions, the Company will not have any liability, whatsoever, on account of taxes, duties, levies etc., till the complete execution of the Contract. The Company will also not have any liability, whatsoever, on account of taxes, duties, levies etc. which are based on the bidder's wrong assessment/ interpretation of applicability of such taxes, duties, levies etc.
- e) If any tax is deductible at source as per Govt. laws, rules and regulations, the same will be so deducted by the Company from the Contractor's bills before releasing payments, and necessary certificate to that effect will be issued.
- f) Inspection/ certification of all goods/ services & works at all stages shall be done by Company or its authorised representative for which no extra charges shall be borne by the Company.
- g) Nil Custom Duty shall be applicable against this tender for the eligible supplies. Indigenous bidders are requested to quote their Deemed Export prices (Refer Clauses 7.0 and 8.0 of Part 2 of for details).
- h) The bidder's Lumpsum Turn Key (LSTK) contract price break-up in accordance with above and as per the Schedule of Rates shall be solely for the purpose of facilitating bid evaluation and payments to be released by the Company, and will not in any way limit the bidder's single point total responsibility for the complete Scope of Work and for the bidder's all contractual responsibilities/ obligations as stated in the Bid Document.

## **7.0 CURRENCIES OF BID AND PAYMENT:**

- 7.1** 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.
- 7.2** Indian bidders too can submit their bids in any currency (including Indian Rupees) and receive payment in such currencies on par with





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

### **8.0 DOCUMENTS ESTABLISHING BIDDER'S ELIGIBILITY AND QUALIFICATIONS:**

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

### **9.0 BID SECURITY:**

**9.1** 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 9.8.

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

a) A Bank Guarantee or irrevocable Letter of Credit in the prescribed format vide **Proforma-D** 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' and payable at Duliajan, Assam.

**9.3** Any bid not secured in accordance with sub-clause 9.2 above shall be rejected by the Company as non-responsive.

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



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- 9.5** Unsuccessful Bidder's Bid Security will be discharged and/or returned within 30 days after finalization of IFB.
- 9.6** 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 28.0 below is furnished.
- 9.7** Bid Security shall not accrue any interest during its period of validity or extended validity.
- 9.8** The Bid Security may be forfeited:
- I. If any bidder withdraws their Bid during the period of bid validity
  - II. If any bidder alters their Bid during the period of bid validity or if the bidder increases the price during the period of bid validity.
  - III. If the bidder does not accept the LOA issued by Company within the validity of the bid
  - IV. If the bid is accepted by OIL, and work is awarded but the contractor does not furnish the Performance Security.
- 9.9** 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.
- 9.10** The scanned copy of the original Bid Security in the form of either Bank Guarantee or LC or Cashier Cheque or Bank Draft must be uploaded by bidder along with the Technical bid in the "Technical RFx Response" of OIL's E-portal. The original Bid Security shall be submitted by bidder to the office of Head-Contracts, Oil India Ltd., Duliajan-786602(Assam), India in a sealed envelope which must reach Head-Contract's office on or before 12.45 Hrs (IST) on the Bid Closing date failing which the bid shall be rejected.

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

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





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## **11.0 PERIOD OF VALIDITY OF BIDS:**

- 11.1** Bids shall remain **valid for 180** days from the date of closing of bid prescribed by the Company. Bids of shorter validity will be rejected as being non-responsive. If nothing is mentioned by the bidder in their bid about the bid validity, it will be presumed that the bid is valid for 180 days from Bid Closing Date.
- 11.2** In exceptional circumstances, the Company may solicit the Bidder's consent to an extension of the period of validity. The request and the response thereto shall be made in writing through Fax or e-mail. The Bid Security provided under Para 9.0 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.

## **12.0 SIGNING OF BID:**

- 12.1** Bids are to be submitted online through OIL's E-procurement portal with digital signature. The bid and all attached documents should be digitally signed by the bidder using "Class 3" digital certificates with Organizations Name [e-commerce application (Certificate with personal verification and 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 13.1 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.

- 12.2** The original and all copies of the bid shall be typed or written in indelible inks. Since bids are to be submitted ONLINE with digital signature, manual signature is NOT relevant. The letter of



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authorization (as per **Proforma-G**) shall be indicated by written Power of Attorney accompanying the Bid.

- 12.3** Any person signing the Bid or any other document in respect of this Bidding Document or other relevant documents on behalf of the Bidder without disclosing his authority to do so shall be deemed to have the authority to bind the Bidder. If it is discovered at any time that the person so signing has no authority to do so, the Company (OIL) may, without prejudice to any other right or remedy, cancel his Bid or Contract and hold the Bidder liable to the Company (OIL) for all costs and damages arising from the cancellation of the Bid or Contract including any loss which the Company (OIL) may sustain on account thereof.
- 12.4** Any physical documents submitted by bidders shall contain no interlineations, white fluid erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such correction shall be initialed by the person or persons who has/have digitally signed the Bid.
- 12.5** Any Bid, which is incomplete, ambiguous, or not in compliance with the Bidding process will be rejected.

### **13.0 SUBMISSION OF BIDS**

- 13.1** The tender is processed under single stage - Two bid system. Bidder shall submit the Technical bid and Priced bid along with all the Annexure and Proforma (wherever applicable) and copies of documents in electronic form through OIL's e-procurement portal within the Bid Closing Date & Time stipulated in the e-tender. For submission of Bids online at OIL's E-Tender Portal, detailed instructions is available in "**HELP DOCUMENTATION**" available in OIL's E-Tender Portal. Guidelines for bid submission are also provided in the "Forwarding Letter". The Technical Bid is to be submitted as per Terms of Reference/Technical Specifications of the bid document and Priced Bid as per the Price Schedule. The Technical Bid should be uploaded in the "Technical RFx Response" Tab only. Prices to be quoted as per Section IV and Annexure-A thereto should be uploaded as Attachment just below the "Tendering Text" in the attachment option under "Notes & Attachments" Tab in the e-portal. **No price should be given in the "Technical RFx Response", otherwise bid shall be rejected.** The priced bid should not be submitted in physical form which shall not be considered.

However, the following documents in two sets should necessarily be submitted in physical form in sealed envelope super scribing the "IFB No., Brief Description of services and Bid Closing/Opening date



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& Time along with the bidder's name and should be submitted to Head-Contracts, Oil India Ltd., Duliajan-786602(Assam) on or before 12.45 Hrs (IST) on the bid closing date indicated in the IFB :

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

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

**13.2** 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-C of the bid document and the same should be uploaded along with the Technical Bid.

**13.3** Timely delivery of the documents in physical form as stated in Para 13.1 above is the responsibility of the bidder. Bidders should send the same through Registered Post or by Courier Services or by hand delivery to the Officer in Charge of the particular tender before the Bid Closing Date and Time. Company shall not be responsible for any postal delay/transit loss.

**13.4** Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted.

## **14.0 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.

## **15.0 DEADLINE FOR SUBMISSION OF BIDS:**

**15.1** Bids should be submitted on-line as per the online tender submission deadline. Bidders will not be permitted by System to



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make any changes in their bid/quote after the bid has been submitted by the bidder. Bidder may however request Head-Contracts, Oil India Ltd., Duliajan for returning their bids/quote before the original bid closing date and time for resubmission. But no such request would be entertained once the submission deadline has reached or bids are opened.

- 15.2** 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.
- 15.3** The documents in physical form as stated in Para 13.1 must be received by Company at the address specified in the "Forwarding Letter" on or before 12.45 Hrs(IST) on the Bid Closing Date mentioned in the "Forwarding Letter". Timely delivery of the same at the address mentioned in the Forwarding Letter is the responsibility of the Bidders.

## **16.0 LATE BIDS:**

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

## **17.0 MODIFICATION AND WITHDRAWAL OF BIDS:**

- 17.1** The Bidder after submission of Bid may modify or withdraw its Bid by written notice prior to Bid Closing Date & Time.
- 17.2** The Bidder's modification or withdrawal notice may also be sent by fax/e-mail but followed by a signed confirmation copy, postmarked no later than the deadline for submission of Bids.
- 17.3** No Bid can be modified or withdrawn subsequent to the deadline for submission of Bids.
- 17.4** 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.
- 17.5** No Bid can be withdrawn in the interval between the deadline for submission of Bids and the expiry of the period of Bid Validity specified by the Bidder on the Bid Form. Withdrawal of a Bid during this interval shall result in the Bidder's forfeiture of its Bid Security



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and bidder shall also be debarred from participation in future tenders of OIL.

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

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

## **19.0 BID OPENING AND EVALUATION:**

- 19.1** Company will open the Technical Bids, including submission made pursuant to clause 17.0, in 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-H**) from the Bidder must be produced by the Bidder's representative at the time of Bid Opening. Unless this Letter is presented, the representative will not be allowed to attend the Bid Opening. The Bidder's representatives who are allowed to attend the Bid Opening shall sign a register evidencing their attendance. Only one representative against each Bid will be allowed to attend. In technical bid opening, only "Technical RFx Response" will be opened. Bidders therefore should ensure that technical bid is uploaded in the "Technical RFx Response" Tab Page only in the E-portal.
- 19.2** 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.
- 19.3** Bid for which an acceptable notice of withdrawal has been received pursuant to clause 17.0 shall not be opened. Company will examine bids to determine whether they are complete, whether requisite Bid Securities have been furnished, whether documents have been digitally signed and whether the bids are generally in order.
- 19.4** 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.



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- 19.5** Company shall prepare, for its own records, minutes of bid opening including the information disclosed to those present in accordance with the sub-clause 19.3.
- 19.6** 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.
- 19.7** 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 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.
- 19.8** 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.
- 19.9** 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.

## **20.0 OPENING OF PRICED BIDS:**

- 20.1** Company will open the Priced Bids of the technically qualified Bidders on a specific date in presence of representatives of the qualified bidders. The technically qualified Bidders will be intimated about the Priced Bid Opening Date & Time in advance. In case of any





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unscheduled holiday or Bandh on the Priced Bid Opening Date, the Bids will be opened on the next working day.

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

## **21.0 CONVERSION TO SINGLE CURRENCY:**

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

## **22.0 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.

### **22.1 DISCOUNTS / REBATES:**

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

- 22.2** Post bid or conditional discounts/rebates offered by any bidder shall not be considered for evaluation of bids. However, if the lowest



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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.

### **22.3 LOADING OF FOREIGN EXCHANGE:**

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

### **22.4 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.

### **22.5 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.

## **23.0 CONTACTING THE COMPANY:**

**23.1** Except as otherwise provided in Clause 19.0 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 19.7.

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

## **24.0 AWARD OF CONTRACT:**

## **25.0 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.





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

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

### **27.0 NOTIFICATION OF AWARD:**

- 27.1** Prior to the expiry of the period of bid validity or extended validity, Company will notify the successful Bidder in writing by registered letter or by fax or E-mail (to be confirmed in writing by registered / couriered letter) that its Bid has been accepted.
- 27.2** The notification of award will constitute the formation of the Contract.
- 27.3** Upon the successful Bidder's furnishing of Performance Security pursuant to Clause 28.0 below, the Company will promptly notify each un-successful Bidder and will discharge their Bid Security, pursuant to Clause 9.0 hereinabove.

### **28.0 PERFORMANCE SECURITY:**

- 28.1** Within 2(two) weeks of receipt of notification of award from the Company, the successful Bidder shall furnish to Company the Performance Security for an amount specified in the Forwarding Letter (and Letter of Award (LOA) issued by Company to Contractor awarding the contract) as per Proforma-E 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.



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- 28.2** The Performance Security specified above must be valid for 12(Twelve) months (covering the warranty period) plus 3 months to lodge claim, if any, beyond the contract period to cover the warranty obligations indicated in clause 6.0 of Section-I hereof for Project work. 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.
- 28.3** 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.
- 28.4** The Performance Security will not accrue any interest during its period of validity or extended validity.
- 28.5** Failure of the successful Bidder to comply with the requirements of clause 28.0 and/or 29.0 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.

## **29.0 SIGNING OF CONTRACT:**

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.

- 29.1** 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.
- 29.2** In the event of failure on the part of the successful Bidder to sign the contract within the period specified above or any other time period specified by Company, OIL reserves the right to terminate the LOA issued to the successful Bidder and invoke the Bid Security or the Performance Security if submitted by the successful Bidder. The party shall also be debarred for a period of 2(two) years from the date of default.



### **30.0 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.

### **31.0 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.

### **32.0 ADVANCE PAYMENT:**

- 32.1** Request for advance payment shall not be normally considered. However, depending on the merit and at the discretion of the Company, advance against mobilisation charge may be given at an interest rate of 1% above the prevailing Bank rate (CC rate) of SBI from the date of payment of the advance till recovery/refund.
- 32.2** 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 6 months beyond the contract period and the same may be invoked in the event of Contractor's failure to fulfil their obligations as per terms and conditions of the Contract.
- 32.3** In the event of any extension to the contract 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.

### **33.0 INTEGRITY PACT:**

- 33.1** OIL shall be entering into an Integrity Pact with the Bidders as per format enclosed vide Proforma-A of the Bid Document. The Integrity Pact has been duly signed digitally by OIL's competent signatory and uploaded in the OIL's e-portal. The Integrity Pact shall be returned

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by the bidder (along with the technical Bid) duly signed by the same signatory who signed the Bid i.e. who is duly authorized to sign the Bid. Any Bid not accompanied by the Integrity Pact Proforma duly signed by the bidder shall be rejected straightway. Uploading the Integrity Pact in the OIL's E-portal with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who has signed the bid.

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

- a. Shri N. Gopalaswami, IAS(Retd), Ex-CEC, Phone No. : 91-44-2834-2444(Res), 91-9600144444(Cell) ; E-mail : [gopalaswamin@gmail.com](mailto:gopalaswamin@gmail.com)
- b. Shri R. C. Agarwal, IPS(Retd), Phone No. : 91-11-22752749(Res), 91-9810787089(Cell) ; E-mail : [rcagarwal@rediffmail.com](mailto:rcagarwal@rediffmail.com)

## **34.0 LOCAL CONDITIONS:**

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

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



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**35.0 SPECIFICATIONS:**

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

**END OF PART - 1**

**&&&&**



**PART – 2**  
**BID REJECTION CRITERIA &  
BID EVALUATION CRITERIA**



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### 1.0 **BID REJECTION CRITERIA (BRC):**

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

### 2.0 **TECHNICAL CRITERIA:**

Bidders must meet the following criteria:

- 2.1 The bidders must be in the business of construction of similar plants such as Construction of Oil Collecting Station (OCS or Group Gathering Station (GGS) or Crude Oil Refinery or Petrochemical Processing Plants or Natural Gas Processing Plants and bidders must have experience in successful execution of EPC(Engineering, Procurement, Construction) projects as defined below.
- 2.2 Such EPC projects/ jobs/work(s) referenced for qualification must involve residual basic engineering, detailed engineering, procurement, supply, fabrication & erection and construction works relating to civil/structural, architectural, mechanical, piping, electrical/ instrumentation works etc. for hydrocarbon oil & gas production facilities/plants as stated above in Para2.1
- 2.3 Experience of having successfully executed similar jobs as mentioned above in Para 2.1 by the bidders in the last 7 (seven) years as on Bid closing date of this tender shall be either of the following.
  - a) Three similar completed works costing not less than Rs 47.70 Crores /USD 7,950,000 each. Or
  - b) Two similar completed works costing not less than Rs. 59.61 Crores/ USD 9,935,000 each. Or
  - c) One similar completed work costing not less than Rs. 95.38 Crores/ USD 15,896,000.
- 2.4 Documentary evidence in support of the above jobs in the form of job completion certificates from the clients are to be submitted failing which the offers will be rejected. The bidder shall give information on each individual work executed during the past 7 (seven) years, ending bid closing date, indicating the following details.
  - Brief Description of Work
  - Value of Contract
  - Completion time as stated in Contract (months)



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- Actual Completion time (months)
- Month/Year of completion
- Reasons for delay, if any
- Name & postal address of client
- Contact person

### 3.0 FINANCIAL CRITERIA:

- 3.1** The Bidder shall have an Average Annual Financial Turnover of minimum Rs. 35.78 Crores (or US\$ 5.96 Million) during the last 3 (three) years ending 31.03.2014 (for Accounting year April-March) or 31.12.2013 (for calendar Accounting year).
- 3.2** Documentary evidences in the form of Audited Balance sheet and Profit and Loss Account for the last 3 (three) years ending 31.03.2014 (or 31.12.2013) shall be submitted alongwith the Techno-commercial bid towards proof of having Annual Turnover as stated above. However, in case of non-corporate bidder, the Financial statements are to be certified by practicing Chartered Accountant's Firm as applicable.
- 3.3** In case the audited Balance sheet and Profit and Loss Account submitted are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date on which the audited Balance sheet and Profit and Loss Account were signed.
- 3.4** NET WORTH: The financial net worth of the bidder as per the audited financial results of immediate preceding financial year should be at least Rs 12.00 Crores for Indian Bidders or USD 2.00 Million for foreign bidders.
- 3.5** WORKING CAPITAL:- The minimum working capital of the bidder as per immediate preceding year's audited financial results shall be Rs 12.00 Crores for Indian Bidders or USD 2.00 Million for foreign bidders.

#### NOTE:

- I. The financial year would be the same as one normally followed by the bidder for its Annual Report.
- II. The bidder shall provide the audited annual financial statements as required for this Tender document. Failure to do so would result in the Proposal being considered as non responsive and for the purpose of this Tender document,
  - a. Annual Turnover shall be "Sale value/ Operating Income"





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- b. Working Capital shall be "Current Assets less Current liabilities"
- c. Net worth means paid up share capital, Share Application Money pending allotment\*\* and reserves# less accumulated losses and deferred expenditure to the extent not written off.
- d. Reserves to be considered for the purpose of net worth shall be all reserves created out of the profits and securities premium account but shall not include reserves created out of revaluation of assets, write back of depreciation and amalgamation.

\*\*Share Application Money pending allotment will be considered only in respect of share to be allotted.

Accordingly, the definition of Net worth shall be as follows:

Paid up share capital-xxx  
Add Share Application Money pending allotment-xxx  
Add Reserves (As defined Above)-xxx  
Less Accumulated Losses-xxx  
Less Deferred Revenue Expenditure to the extent not written off-xxx

\*\*\* Bidder whose accounts are not audited by auditors as per law/jurisdiction, certification from a Chartered Accountant to be submitted.

## 4.0 **COMMERCIAL – BID SUBMISSION**

- 4.1 Bids shall be submitted under single stage two Bid system i.e. Technical Bid and Priced Bid separately in the OIL's e-Tender portal. The Technical Bid is to be uploaded as per Scope of Work & Technical Specification of the tender in "Technical RFx Response" Tab and Priced Bid as per Section IV and Annexure-A thereto uploaded in the "Notes & Attachments" Tab. Bids shall be rejected outright if the prices are indicated in the technical bids. Bids not conforming to this two bid system shall be rejected outright.
- 4.2 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.
- 4.3 Bids with shorter validity will be rejected as being non-responsive.
- 4.4 Bid Security in Original shall be furnished as a part of the Technical Bid and shall reach OIL's Head-Contract's office at Duliajan on or before 12.45 Hrs (IST) on the bid closing date. A scanned copy of the bid security shall however be uploaded in OIL's E-Procurement portal along with the Technical Bid. The amount of Bid Security shall be as

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specified in the Forwarding Letter of the Bid Document. Bid without proper & valid Bid Security will be rejected.

- 4.5** The Integrity Pact must be uploaded in OIL's E-Procurement portal along with the Technical Bid digitally signed by the same signatory who digitally signed the Bid i.e. who is duly authorized to sign the Bid. Bids without the Integrity Pact digitally signed by the bidder shall be rejected straightway.
- 4.6** Physical Bids, if any received from the bidders, shall not be considered and will be rejected.
- 4.7** Bids submitted after the Bid Closing Date and Time will be rejected.
- 4.8** Bids received through the e-procurement portal shall only be accepted. Bids received in any other form shall not be accepted.
- 4.9** The bid documents are non-transferable. Bid can only be submitted in the name of the bidder in whose name the User ID and Password have been issued. Unsolicited bids will not be considered and will be straightway rejected.
- 4.10** Bids shall be typed or written in indelible ink and shall be digitally signed by the bidder or his authorized representative.
- 4.11** Any physical documents wherever called for, submitted by bidders shall contain no interlineations, white fluid erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such correction shall be initialed by the person or persons who has/have digitally signed the Bid.
- 4.12** Any Bid containing false statement will be rejected.
- 4.13** Bidders must quote clearly and strictly in accordance with the price schedule outlined in "Price Bid Format" of Bid Document, otherwise the Bid will be summarily rejected.
- 4.14** Against this tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product.
- 4.15** If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
- 4.16** Bidder must accept and comply with the following clauses as given in the Bid Document in toto failing which bid will be rejected –



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- I. Performance Guarantee Clause
- II. Force Majeure Clause
- III. Tax Liabilities Clause
- IV. Arbitration Clause
- V. Acceptance of Jurisdiction and Applicable Law
- VI. Liquidated damage and penalty clause
- VII. Safety & Labour Clauses
- VIII. Termination Clause
- IX. Integrity Pact

### **5.0 GENERAL**

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

### **6.0 BID EVALUATION CRITERIA (BEC):**

The bids conforming to the technical specifications, terms and conditions stipulated in the bidding document and considered to be responsive after subjecting to Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria given below:

- 6.1** If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 6.2** For conversion of foreign currency into Indian currency for evaluation of Bids, B.C. selling (Market) rate declared by State Bank of India, one



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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.

**6.3** The bidders must quote their charges/ rates in the manner as called for vide "Schedule of Rates" under Section - IV and the summarized price schedule format vide Form SP0.

**6.4** To ascertain the inter-se-ranking, the comparison of the responsive bids will be made on the following basis:

Total quoted LSTK contract cost as per Schedule of Rates including all applicable statutory levies, taxes and duties and Service tax amount.

### **7.0 CUSTOM DUTY:**

The Work under this Contract shall be carried out in Barekuri, Assam (Hugrijan ML) which fall under ML/PEL areas of the Company issued or renewed to Company after 01/04/99 and therefore, therefore, in terms of Notification No. 12/2012 Cus. dated 17.03.2012, goods specified in List-13 of the Notification imported in connection with petroleum operations under this Contract would attract zero customs duty. Also the Deemed Export benefits (refer para 8.0 below) are available for the jobs in this location. Bidders should take note of the same and submit their bid considering the customs duty and other benefits available for the job.

### **8.0 DEEMED EXPORT BENEFITS (APPLICABLE ONLY FOR DOMESTIC BIDDERS):**

As per Export Import policy in vogue, supplies of goods to any project or purpose in respect of which the Ministry of Finance, by a notification, permits the import of such goods at zero customs duty (Para 8.2(f) of EXIM Policy) is eligible for Deemed Export, provided the goods are manufactured in India. Further, as per Para 8.4.5 of Handbook of Procedures, the benefits of deemed exports under Para 8.2(f) of the Policy shall be applicable in respect of items, import of which is allowed by the Department of Revenue at zero Customs duty subject to fulfilment of conditions specified under Customs Notification no. 12/2012 dated 17.3.2012, as amended from time to time.



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**8.1** The benefits available on the Deemed Export are as under:

- a) Advance licence for intermediate supply/Deemed Export/DFRC/DFRC for intermediate supplies.
- b) Deemed Export draw back
- c) Exemption from terminal Excise duty.

Further, as per Notification no. 12/2012-Central Excise dated 17.03.2012 (Sl. 336), Excise duty is "Nil" for the tendered item(s) since the goods are exempted from the duties of Customs.

**8.2** In case of domestic bidders, the terminal Excise duty being exempted (under deemed export benefits) will not be paid by OIL and bidders are to quote their prices accordingly. OIL will provide necessary documents as per the Government Policy.

**8.3** The domestic bidders will quote net price after taking into account the above Deemed export benefits as applicable and bids will be evaluated accordingly. The bidders are requested to check the latest position on the subject on their own and OIL shall not accept any liability, whatsoever, on this account.

**END OF PART – 2**  
**&&&&**



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**PART – 3 SECTION-I**  
**GENERAL CONDITIONS OF CONTRACT**



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### 1.0 **DEFINITIONS:**

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

- a) "Contract" shall mean agreement entered into between Company and Contractor, as recorded in the contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein;
- b) "Contract Price" shall mean the price payable to Contractor under the contract for the full and proper performance of its contractual obligations;
- c) "Work" shall mean each and every activity required for the successful performance of the services described in Section II, the Terms of Reference.
- d) "Company" or "OIL" shall mean Oil India Limited;
- e) "EMPC" shall mean the Engineering & Project Management Consultancy firm engaged by OIL for the Contract ie. M/s. Kavin Engineering and Services Private Limited., Coimbatore;
- f) "Contractor" or "EPC Contractor" shall mean the Contractor performing the work under this Contract.
- g) "Contractor's Personnel" shall mean the personnel to be provided by the Contractor to provide services as per the contract.
- h) "Company's Personnel" shall mean the personnel to be provided by OIL or OIL's contractor (other than the Contractor executing the Contract). The Company representatives of OIL are also included in the Company's personnel.
- i) "Worksite / Site" shall mean the location provided by Company for the construction of the unit at OIL's facility in Barekuri, near Tinsukia, Assam.
- j) "Willful Misconduct" shall mean intentional disregard of good and prudent standards of performance or proper conduct under the Contract with knowledge that it is likely to result in any injury to any person or persons or loss or damage of property."



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

#### **2.1 EFFECTIVE DATE:**

The contract shall become effective as of the date Company notifies Contractor in writing (through Letter of Award) that it has been awarded the contract. This date of issue of Letter of Award (LOA) will be the Effective Date of Contract.

#### **2.2 KICK OFF MEETING (KOM):**

The Kick-off Meeting (KOM) shall be held at Duliajan (Assam) within a maximum period of 15 days from the date of issue of Letter of Award (LOA). Contractor shall mobilize their personnel for attending KOM at Duliajan within 15 days from the date of Letter of Award (LOA).

#### **2.3 MOBILISATION TIME:**

The mobilization shall have to be completed by the contractor within 30(Thirty) days from the Effective Date of the Contract. Mobilization shall be deemed to be completed when Contractor's personnel and material arrives at OIL's facility in Barekuri duly certified by the Company's authorized representative.

#### **2.4 DATE OF COMMENCEMENT OF CONTRACT:**

The commencement date of the Contract will be reckoned from the date of issue of LOA.

#### **2.5 DURATION OF CONTRACT:**

The duration of the Contract shall be for a period of 21 (twenty one) months to be reckoned from the commencement date of the Contract plus 3 months for trial run & commissioning of the plant.

### **3.0 GENERAL OBLIGATIONS OF CONTRACTOR:**

Contractor shall, in accordance with and subject to the terms and conditions of this Contract:





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- 3.1** Perform the work described in the Terms of Reference (Section II) in most economic and cost effective manner.
- 3.2** Except as otherwise provided in the Terms of Reference and the special Conditions of the contract provide all labour as required to perform the work.
- 3.3** Perform all other obligations, work and services which are required by the terms of this contract or which reasonably can be implied from such terms as being necessary for the successful and timely completion of the work.
- 3.4** Contractor shall be deemed to have satisfied himself before submitting his bid as to the correctness and sufficiency of its bid for the services required and of the rates and prices quoted, which rates and prices shall, except insofar as otherwise provided, cover all its obligations under the contract.
- 3.5** Contractor shall give or provide all necessary supervision during the performance of the services and as long thereafter within the warranty period as Company may consider necessary for the proper fulfilling of Contractor's obligations under the contract.
- 3.6** Contractor shall strictly follow all the statutory norms and guidelines issued by the various Government agencies in regards to safety & environmental issues.

**4.0 GENERAL OBLIGATIONS OF THE COMPANY:**

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

- 4.1** Pay Contractor in accordance with terms and conditions of the contract.
- 4.2** Allow Contractor and his personnel 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 the contract.



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### **5.0 PERSONNEL TO BE DEPLOYED BY CONTRACTOR**

- 5.1** Contractor warrants that they will provide competent, qualified and sufficiently experienced personnel to perform the work correctly and efficiently and shall ensure that such personnel observe applicable Company and statutory safety requirement. Upon Company's written request, Contractor, entirely at their own expense, shall remove immediately, from assignment to the work, any personnel of the Contractor determined by the Company to be unsuitable and shall promptly replace such personnel with personnel acceptable to the Company without affecting Company's work.
- 5.2** The Contractor shall be solely responsible throughout the period of the contract for providing all requirements of their personnel, and of their sub-contractors, if any, including but not limited to insurance, housing, medical services, messing, their transportation to & fro from field site(both air and land transportation), enroute expenses, vacation, salaries and all amenities, termination payment and taxes, if any, payable at no charge to the Company & Company shall have no responsibility or liability in this regard
- 5.3** Contractor's key personnel shall be fluent in English language (both writing and speaking).

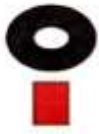
### **6.0 WARRANTY AND REMEDY OF DEFECTS**

- 6.1** Contractor must warrant that they shall perform the work in a first class, workman-like, and professional manner and in accordance with their highest degree of quality, efficiency, and with the state of the art technology and in conformity with all specifications, standards and drawings set forth or referred to in the Technical-Scope of Work (Section-II) and with instructions and guidance which the Company may, from time to time, furnish to the Contractor.
- 6.2** Should the Company discover at any time during the tenure of the Contract or within the Performance Liability Period of the Contract that the work carried out by the contractor does not conform to and perform as per terms and conditions of the Contract, Contractor shall after receipt of notice from Company, promptly perform all corrective work required to make the services conform to the Warranty. Such corrective work shall be performed entirely at Contractor's own expenses. If such corrective work is not performed within a reasonable time, the Company, at its option, may have such remedial work carried out by others and charge the cost thereof to Contractor, subject to a maximum of the contract value payable for the defective work which needs corrective action which

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the Contractor must pay promptly. In case Contractor fails to perform remedial work, the performance security shall be forfeited.

- 6.3** All Goods or Materials shall be supplied strictly in accordance with the specifications, drawings, data sheets, other attachments and conditions stated in the Contracts.
- 6.4** The list of vendors/site works contractors deployed by the Contractor in consultation with OIL/EPMC should include only such contractors who have proven performance track record.
- 6.5** The Contractor guarantees that the Goods or Materials supplied under the Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Contractor further warrants that the goods supplied under this Contract shall have no defect arising from design, materials or workmanship.
- 6.6** No deviation from such specifications or alterations or of these conditions shall be made without agreement with the Company in writing, which must be obtained before any work against the order is commenced. All materials supplied by the Contractor pursuant to the Contract (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by Company) are guaranteed to be of the best quality of their respective kinds, (unless otherwise specifically authorized in writing by Company) and shall be free from faulty design, workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfill in all respects operating conditions, if any, specified in the Contract.
- 6.7** This Guarantee shall remain valid for a period of 12 (twelve) months from the date of putting the OCS into operation after 3 months of trial run & commissioning i.e. DATE OF COMPLETION OF THE PROJECT. If any trouble or defect, originating with the design, material, workmanship or operating characteristics of any materials, arises at any time prior to expiry of guarantee period, the Contractor is notified thereof, Contractor shall, at his own expense and as promptly as possible, make such alterations, repairs and replacements as may necessary to permit the material to functions in accordance with the specifications and to fulfill the foregoing guarantees.
- 6.8** In case the commissioning is delayed due to the reason solely attributable to Company, whereas the plant has been completed and made ready for Commissioning by the Contractor, such warranty/guarantee shall be valid for a period of 24 (Twenty Four)

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months reckoned from the date of plant is made ready for commissioning or 12 (twelve) months from the date of issue of Certificate of Completion and acceptance, whichever is earlier.

- 6.9** The Company may, at its option, remove such defective materials, at Contractor's expense in which event Contractor shall, without cost to Company and as promptly as possible, furnish and install proper materials. Repaired or replacement materials shall be similarly guaranteed by the Contractor for a period of no less than 12 (twelve) months from the date of replacement/ repair.
- 6.10** In the event that the materials supplied do not meet the specifications and/ or not in accordance with the drawings data sheets or the terms of Contract and rectification is required in site, Company shall notify the Contractor giving full details of differences. The Contractor shall attend the site within 3 (three) days of receipt of such notice to meet and agree with representatives of Company, the action required to correct the deficiency. Should the Contractor fail to attend meeting at site within the time specified above, Company shall immediately rectify the work/ materials and Contractor shall reimburse Company all cost and expenses incurred in connection with such trouble or defect. In case the Contractor fails to perform remedial work, the Performance Bank Guarantee shall be invoked.
- 6.11** The Contractor shall be responsible for PLANT performance guarantees in terms of product quality and rated capacity including turn down capacity of each Unit and/ or facility and/ or systems so far as related to or depend upon or arise out of any Residual Process Design, HAZOP Study performed and/ or done and/ or designs, drawings and/ or specifications furnished or approved by the EPMC and to detailed Engineering or other work performed, done or approved by the EPMC.
- 6.12** The guarantees shall also cover mechanical performance guarantees for related equipment efficiencies and their performance as laid down in the Process Package. The guarantee shall also cover performance of the measurement and control systems as a whole. Failure to meet the performance guarantees, including underperformance of any equipment, shall be made good by the Contractor by alteration, replacement or repair (including hook-up, testing and commissioning) as necessary at no extra cost to the OIL & within time frame mutually agreed upon.
- 6.13** The Contractor further guarantees that the facilities for which the process design is furnished by EPMC, when completed as per EPMC's design and specifications and operated during a



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performance test in accordance with EPMC' s operating instructions using raw materials and utilities required, will operate to meet the Plant Performance Guarantees in respect of product quality and rated capacity including turn down capacity of the unit and/or facility system

- 6.14** During the guarantee period if the Contractor is requested by Company to visit site for checking and carrying out remedial Work of facilities and equipment, all expenses towards personnel, travelling to and from the site living and accommodation etc. for remedial Works shall be borne by the Contractor unless defects are caused by the Company, or its Agents or other contractors.

## **7.0 CONFIDENTIALITY, USE OF CONTRACT DOCUMENTS AND INFORMATION:**

- 7.1** Contractor shall not, without Company's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing pattern, sample or information furnished by or on behalf of Company in connection therewith, to any person other than a person employed by Contractor in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far, as may be necessary for purposes of such performance with prior permission from Company. However, nothing hereinabove contained shall deprive the Contractor of the right to use or disclose any information : (a) which is possessed by the Contractor, as evidenced by the Contractor's written records, before receipt thereof from the Company which however the Contractor shall immediately inform to Company ; or (b) which is required to be disclosed by the Contractor pursuant to an order of a court of competent jurisdiction or other governmental agency having the power to order such disclosure, provided the Contractor uses its best efforts to provide timely notice to Company of such order to permit Company an opportunity to contest such order subject to prior permission from Company.
- 7.2** Contractor shall not, without Company's prior written consent, make use of any document or information except for purposes of performing the contract.
- 7.3** Any document supplied to the Contractor in relation to the contract other than the Contract itself remain the property of Company and shall be returned (in all copies) to Company on completion of Contractor's performance under the Contract if so required by Company. All information obtained by Contractor in the conduct of

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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. However, the above obligation shall not extend to information which: (i) is, at the time of disclosure, known to the public which Contractor shall immediately inform Company ; (ii) is lawfully becomes at a later date known to the public through no fault of Contractor subject to Contractor's undertaking that no information has been divulged by them to the public ; (iii) is lawfully possessed by Contractor before receipt thereof from Company which should be immediately informed to Company; (iv) is developed by Contractor independently of the information disclosed by Company which should be shared with the Company; (v) Contractor is required to produce before competent authorities or by court order subject to prior permission from Company.

**8.0 TAXES:**

- 8.1** Tax levied on Contractor as per the provisions of Indian Income Tax Act and any other enactment/rules on income derived/payments received under this 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 by Contractor.
- 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 in accordance with provisions under the law. Other than the information provided by the Contractor, the Contractor shall not be responsible for any inaccurate information provided by the Company to the Tax authorities and the Company shall indemnify the Contractor for all claims, expenses, costs or losses of any nature arising from such inaccuracy. 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.





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- 8.5** 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 and Company will issue TDS Certificate to the Contractor as per the provisions of Income Tax Act.
- 8.6** Corporate and personal taxes on Contractor shall be the liability of the Contractor and the Company shall not assume any responsibility on this account.
- 8.7** All local taxes, levies and duties, sales tax, octroi, etc. on purchases and sales made by Contractor shall be borne by the Contractor.
- 8.8** The Contractor agrees to and does hereby accept full and exclusive liability at his own cost for the payment of any and all taxes, duties licence fee and other such levies etc. as are payable to government, local or statutory authority as are now in force and as are payable by Contractor, his agents, sub-contractor's and their employees etc. for performance of work under this Contract. The Contractor shall be deemed to have been fully informed with respect to all such liabilities and considered the same in his bid, and the Contract shall not be varied in any way on this account.
- 8.9** For imported supplies of goods, Contractor at their cost shall arrange the clearance of all equipment, spare parts, consumable, etc. from customs and port authorities in India. The responsibility for clearance will rest with the Contractor. Any demurrage in this process will be at Contractor's cost.
- 8.10** Service Tax: The price excludes Services Tax and the service tax as applicable shall be to the Company account. The Service tax amount on the taxable part of the services provided by the Contractor shall be paid by the Company as per provisions of the Service Tax Act.

## **9.0 CONCESSIONAL RATE OF CUSTOM DUTY / EXCISE DUTY / SALES TAX:**

- 9.1** Company shall use the equipment, supplies and Services under the Contract in the PEL/ML areas renewed / issued to Company after 1.4.1999 and therefore, in terms of Notification No. 12/2012 Cus. dated 17.03.2012, goods specified in List-13 of the Notification imported in connection with petroleum operations under this Contract would attract zero customs duty. Company will issue



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Recommendatory Letter to Directorate General of Hydrocarbons(DGH), Ministry of Petroleum & Natural Gas, as per Government guidelines for issuance of Essentiality Certificate (EC) from Directorate General of Hydrocarbons, to enable the Contractor to import goods at concessional (Nil) customs duty so as to provide the services under this Contract provided these goods are specified in the List-13 of the aforesaid Notification.

- 9.2** Bidder should provide the list of items to be imported by them under the Contract in the format specified in Schedule of Rates along with their bid for issuance of Recommendatory Letter to DGH. Contractor shall make written request to Company immediately after shipment of the goods indicated by them in Schedule of Rates, along with the Invoices and all shipping documents (with clear 15 working days notice) requesting Company for issuance of the Recommendatory Letter. OIL shall issue the Recommendatory provided all the documents submitted by the Contractor are found in order as per contract. It shall be however, Contractor's responsibility to obtain EC from DGH and clear the goods through customs. OIL shall not be liable in whatsoever manner for the rejection of their claims for zero customs duty by any of the authorities including DGH arising solely as a result of any default on the part of the Contractor.
- 9.3** All imports and import clearances under the contract shall be done by the contractor and OIL shall not provide any assistance in this regard.
- 9.4** However, in the event customs duty becomes leviable during the course of contract arising out of a change in the policy of the Government, Company shall be liable for payment of the customs duties leviable in India on items as provided in Schedule of Rates or the actuals whichever is less, provided Contractor furnishes all necessary documents indicating the estimated customs duty at least 10 days in advance. Such payment of Customs Duty shall be arranged by Company and made available to the representatives of Contractor at Kolkata within 3 working days after Contractor submits the undisputed and clear necessary documents / duty assessment papers at Company's office at Kolkata. Contractor would be responsible for passing such payment to customs authorities at the port of entry. Company's obligation for Customs Duty payment shall be limited / restricted to the tariff rates as assessed by the Customs on the day of clearance, or as on the last day of the stipulated mobilisation period. In case of clearance thereafter, on the CIF value of items in Schedule of Rates will be frozen and any increase in Customs Duty on account of increase in value on these will be to the Contractor's account. Furthermore, in



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case the above CIF value is not acceptable to assessing Customs Officer and as a result if any excess Customs Duty becomes payable, it shall be to Contractor's account. Before filing Bill of lading, Bill of entry, the Contractor must consult the Company to avoid payment of excess Customs Duty.

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

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

**Note:**

The recommendatory letter will be given only for those items which are either consumed during execution of work or for those equipment/tools which are undertaken to be re-exported by the Contractor. The recommendatory letter will not be issued when the Contractor imports the equipment/tools on acquisition basis and does not undertake to re-export the same after the completion of the contract.

**9.7 Deemed Export Benefits (applicable only for Domestic Contractors):**

As per Export Import policy in vogue, supplies of goods to any project or purpose in respect of which the Ministry of Finance, by a notification, permits the import of such goods at zero customs duty (Para 8.2(f) of EXIM Policy) is eligible for Deemed Export, provided the goods are manufactured in India. Further, as per Para 8.4.5 of Handbook of Procedures, the benefits of deemed exports under Para 8.2(f) of the Policy shall be applicable in respect of items, import of which is allowed by the Department of Revenue



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at zero Customs duty subject to fulfillment of conditions specified under Customs Notification no. 12/2012 dated 17.3.2012, as amended from time to time.

**9.7.1** The benefits available on the Deemed Export are as under:

- a) Advance license for intermediate supply/Deemed Export/DFRC/DFRC for intermediate supplies.
- b) Deemed Export draw back
- c) Exemption from terminal Excise duty.

Further, as per Notification no. 12/2012-Central Excise dated 17.03.2012 (Sl. 336), Excise duty is "Nil" for the tendered item(s) since the goods are exempted from the duties of Customs.

**9.7.2** In case of domestic Contractor, the terminal Excise duty being exempted (under deemed export benefits) will not be paid by OIL and Contractor is to quote their prices accordingly. OIL will provide necessary documents as per the Government Policy.

**9.8** OIL is registered under the Central sales tax Act and is entitled to avail concessional rate of Central Sales tax against Form 'C' in respect to inter-state purchase directly consigned to OIL from the Contractors in India provided the details of such cases are specifically mentioned in the Bid and the contract.

**9.9** As the above statutory provisions are frequently reviewed by the Govt., the Contractor is advised to check the latest position in their own interest and OIL will not bear any responsibilities for any incorrect assessment of the statutory levies by the Contractor.

## **10.0 INSURANCE:**

**10.1** The Contractor shall arrange insurance to cover all risks in respect of their personnel, materials and equipment belonging to the Contractor or its subcontractor (if applicable) during the currency of the contract including the third party items/ consumables. For materials/equipment belong to the Contractor or its subcontractor, Contractor may self-insure the same.

**10.2** Contractor shall at all time during the currency of the contract provide, pay for and maintain the following insurance amongst others:

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- 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 or Comprehensive General 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) or Contractor may self-insure its tools/ equipment.
- 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 as governed by Indian Insurance regulations.
- f) Public Liability Insurance as required under Public Liability Insurance Act 1991, if applicable.

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

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

**10.5** 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 out by the Contractor for any reason whatsoever, loss/damage claims resulting therefrom shall be to the sole account of Contractor.

**10.6** Contractor shall require all of his 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.

**10.7** All insurance taken out by Contractor or his sub-Contractor shall be endorsed to provide that the underwriters waive their rights of recourse on the Company and to the extent of the liabilities assumed by Contractor under this Contract.



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**10.8** All goods/equipment to be supplied under this contract shall be under Contractor's custody until such goods/equipment are installed and commissioned on turnkey basis. The Contractor shall at his own expense, secure and maintain insurance covering the full value of all such goods/ equipment for the period up to commissioning of the Plant.

ii) Such insurance shall cover any loss or damage of supplied goods/equipment during transit from Contractor's source of despatch to project sites, storage at various sites, erection, installation and commissioning of such goods/equipment till such time the entire OCS is commissioned. The beneficiary of all such insurance policies shall be OIL. Unless insurance document in this regard are furnished to the Company no payment will be made for such supplies.

## **11.0 CHANGES:**

**11.1** During the performance of the work, Company may make minor change to take care of any supplementary 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 (Change Order) by the Company.

**11.2** If any change result in an increase in compensation due to Contractor or in a credit due to Company, Contractor shall submit to Company an estimate of the amount of such compensation or credit in a form prescribed by Company. Such estimates shall be based on the rates shown in the Schedule of Rates (Section IV). Upon review of Contractor's estimate, Contractor 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 14 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.



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### 12.0 **FORCE MAJEURE:**

**12.1** 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 for the period during which such cause lasts. The word 'Force Majeure' as employed herein shall mean acts of God, war, revolt, agitation, strikes, riot, fire, flood, sabotage, civil commotion, road barricade (but not due to interference of employment problem of the Contractor), acts of government of the two parties, which makes performance impossible or impracticable 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.

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

**12.3** Should 'force majeure' condition as stated above occurs and should the same be notified within seventy two (72) hours both parties shall have no obligation. Parties will have the right to terminate the contract if such 'force majeure' condition continues beyond fifteen (15) days with prior written notice. Should either party decide not to terminate the contract even under such condition, no payment would apply unless otherwise agreed to. Time for performance of the relative obligation suspended by the 'Force Majeure' shall then stand extended by the period for which such cause lasts.

The above clause (i.e. Clause No. 12.0) with all its sub-clauses shall be referred to as **Force Majeure Clause** of this tender document.

### 13.0 **TERMINATION:**

#### **13.1 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 the extension period, if exercised by Company under the provision of the Contract.





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### **13.2 TERMINATION ON ACCOUNT OF FORCE MAJEURE:**

Either party shall have the right to terminate this Contract on account of Force Majeure as set forth in Article 12.0 above.

### **13.3 TERMINATION ON ACCOUNT OF INSOLVENCY:**

In the event that the Contractor at any time during the term of this 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 this Contract and all the Contractor's rights and privileges hereunder, shall stand terminated forthwith.

### **13.4 TERMINATION FOR UNSATISFACTORY PERFORMANCE:**

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

### **13.5 TERMINATION DUE TO CHANGE OF OWNERSHIP & ASSIGNMENT:**

In case the Contractor's rights and /or obligations under this 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 this Contract.

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

13.7 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the company on giving 15 (fifteen) days written notice to the Contractor due to any other reason not covered under the above clause from 13.1 to 13.6 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 of





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services as per the Contract upto the date of termination including the De-mob cost, if any.

#### **13.8 TERMINATION FOR DEFAULT :**

The Company may, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Contractor, terminate the Contract in whole or in part:

- a) If the Contractor fails to deliver any or all of the Goods within the period(s) specified in the Contract; or
- b) If the Contractor fails to perform any of their obligations(s) under the Contract, and
- c) If the Contractor, in either of the above circumstances does not rectify his failure within a period of 30 (Thirty) days (or such longer period as the Company may authorise in writing) after receipt of the default notice from the Company.

#### **13.9 CONSEQUENCES OF TERMINATION:**

In all cases of termination herein set forth, the relative obligations of the parties to the Contract shall be limited to the period up to the date of termination. Notwithstanding the termination of this Contract, the parties shall continue to be bound by the provisions of this Contract that reasonably require some action or forbearance after such termination.

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

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

13.12 Notwithstanding any provisions herein to the contrary, the Contract may be terminated at any time by the Company on giving 15 (Fifteen) days written notice to the Contractor due to any other reason not covered under the above Sub-Clause from 13.1 to 13.8 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 Work done as per this Contract up to the date of termination.



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## **14.0 SETTLEMENT OF DISPUTES AND ARBITRATION:**

### **14.1 Arbitration(Applicable for suppliers/ contractors other than PSU) :**

Except as otherwise provided elsewhere in the contract, if any dispute, difference, question or disagreement arises between the parties hereto or their respective representatives or assignees, in connection with construction, meaning, operation, effect, interpretation of the contract or breach thereof which parties are unable to settle mutually, the same shall be referred to Arbitration as provided hereunder :

1. A party wishing to commence arbitration proceeding shall invoke Arbitration Clause by giving 30 days notice to the other party. The notice invoking arbitration shall specify all the points of dispute with details of the amount claimed to be referred to arbitration at the time of invocation of arbitration and not thereafter. If the claim is in foreign currency, the claimant shall indicate its value in Indian Rupee for the purpose of constitution of the arbitral tribunal.
2. The number of arbitrators and the appointing authority will be as under:

Claim amount (excluding claim for interest and counter claim, if any)	Number of Arbitrator	Appointing Authority
Upto Rs. 5 Crore	Sole Arbitrator	OIL
Above Rs. 5 Crore	3 Arbitrators	One Arbitrator by each party and the 3 <sup>rd</sup> Arbitrator, who shall be the presiding Arbitrator, by the two Arbitrators

3. The parties agree that they shall appoint only those persons as arbitrators who accept the conditions of the arbitration clause. No person shall be appointed as Arbitrator or Presiding Arbitrator who does not accept the conditions of the arbitration clause.

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4. Parties agree that there will be no objection if the Arbitrator appointed holds equity shares of OIL and/or is a retired officer of OIL/any PSU. However, neither party shall appoint its serving employees as arbitrator.
5. If any of the Arbitrators so appointed dies, resigns, becomes incapacitated or withdraws for any reason from the proceedings, it shall be lawful for the concerned party/arbitrators to appoint another person in his place in the same manner as aforesaid. Such person shall proceed with the reference from the stage where his predecessor had left if both parties consent for the same ; otherwise, he shall proceed de novo.
6. Parties agree that neither shall be entitled for any pre-reference or pendente-lite interest on its claims. Parties agree that any claim for such interest made by any party shall be void.
7. The arbitral tribunal shall make and publish the award within time stipulated as under :

Amount of Claims and counter claims (excluding interest)	Period for making and publishing of the award(counted from the date of first meeting of the Arbitrators)
Upto Rs. 5 Crore	Within 8 months
Above Rs. 5 Crore	Within 12 months

The above time limit can be extended by Arbitrator, for reasons to be recorded in writing, with the consent of the other parties.

8. If after commencement of the arbitration proceedings, the parties agree to settle the dispute mutually or refer the dispute to conciliation, the arbitrators shall put the proceedings in abeyance until such period as requested by the parties.
9. Each party shall be responsible to make arrangements for the travel and stay etc. of the arbitrator pointed by it. Claimant shall also be responsible for making arrangements for travel/stay arrangements of the Presiding Arbitrator and the expenses incurred shall be shared equally by the parties.

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In case of sole arbitrator, OIL shall make all necessary arrangements for his travel, stay and the expenses incurred shall be shared equally by the parties.

10. The Arbitration shall be held at the place from where the contract has been awarded. However, parties to the contract can agree for a different place for the convenience of all concerned.
11. The Arbitrator(s) shall give reasoned and speaking award and it shall be final and binding on the parties.
12. Subject to aforesaid, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof shall apply to the arbitration proceedings under this clause.

**14.2 Arbitration(applicable in case of Contract awarded on Public Sector Enterprise) :**

In the event of any dispute or difference relating to, arising from or connected with the CONTRACT, such dispute or difference shall be referred by either party to the arbitration of one of the Arbitrators in the Department of Public Enterprises, to be nominated by the Secretary to the Government of India, In-Charge of the Bureau of Public Enterprises. The Arbitration and Conciliation Act 1996 shall not be applicable to the Arbitration under this clause. The award of the Arbitrator shall be binding upon the parties to the dispute, provided however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Deptt. of Legal Affairs, Ministry of Law and Justice, Government of India. Upon such reference, the dispute shall be decided by the Law Secretary or the Special Secretary/Additional Secretary, whose decision shall bind the parties finally and conclusively. The parties in the dispute will share equally the cost of the arbitration as intimated by the Arbitrator.



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### 15.0 NOTICES:

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

#### **Company**

a) **For contractual matters**

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

b) **For technical matters**

General Manager (PP)  
OIL INDIA LIMITED  
PO Duliajan - 786602,  
Assam, India  
Email: prodproj@oilindia.in

c) **Contractor**

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

Fax No. :

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

### 16.0 SUBCONTRACTING/ASSIGNMENT:

**16.1** Contractor shall not subcontract, transfer or assign the contract, in full or any part under this contract, to any third party (ies). Except for the main services under this contract, Contractor may subcontract 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.

### 17.0 MISCELLANEOUS PROVISIONS:

**17.1** 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.



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- 17.2** 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.
- 17.3** During the tenure of the Contract, Contractor shall keep the site where the services are being performed reasonably free from all unnecessary obstruction and shall store or dispose of any equipment and surplus materials and clear away and remove from the site any wreckage, rubbish or temporary works no longer required. On the completion of the services, Contractor shall clear away and remove from the site any surplus materials, rubbish or temporary works of every kind and leave the whole of the site clean and in workmanlike condition to the satisfaction of the Company.
- 17.4** 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.
- 17.5** All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the site where the services are performed, be deem to be the absolute property of the Company. The Contractor shall take reasonable precautions to prevent the personnel or any other persons from removing or damaging any such article or thing and shall immediately upon the discovery thereof and, before removal, acquaint the Company of such discovery any carry out, at the expense of the Company, the Company's orders as to the disposal of the same.

## **18.0 LIQUIDATED DAMAGES**

### **18.1 LIQUIDATED DAMAGES FOR DEFAULT IN TIMELY COMPLETION:**

- 18.1.1** Time is the essence of this Contract. In case there is delay in completion of the contract as per the schedule of Completion (as per Sub-Clause 2.5 of Section-I) due to the reasons attributable to the Contractor, the Contractor shall be liable to pay liquidated damages at



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the rate of 0.5% of the estimated total contract value per week or part thereof of delay subject to maximum of 7.5% of the total calculated Contract Price. Liquidated Damages will be reckoned from the date after expiry of the scheduled completion period till the actual completion period of Contract as defined in Clause 2.5 of Section-I. The Company may without prejudice to any other method of recovery, deduct the amount of such liquidated damages from any amount due to the Contractor.

18.1.2 The Company also reserves the right to cancel the Contract without any compensation whatsoever in case of failure to Complete the work within the stipulated period. In the event of non-completion of the jobs as per the provisions of this contract, the company reserves the right to claim back the amount already paid to the contractor. Any part/phase completion, barring the final phase, will be regarded as non-completion of the contract and loss of time & cost to the company.

18.1.3 The parties agree that the sum specified above is not a penalty but a genuine pre-estimate of the loss/damage which will be suffered by OIL on account of delay/breach on the part of the Contractor and the said amount will be payable without proof of actual loss or damage caused by such delay/breach and without any demur and shall not be open for any dispute whatsoever.

## **19.0 PERFORMANCE SECURITY:**

The Contractor has to furnish to Company a Bank Guarantee No. \_\_\_\_\_ dated \_\_\_\_\_ issued by \_\_\_\_\_ for \_\_\_\_\_ (being 7.5 % of estimated total Contract Price) valid till \_\_\_\_\_ towards performance security. The performance security shall be payable to Company as compensation for any loss resulting from Contractor's failure to fulfil their obligations under the Contract. In the event of extension of the Contract period, the validity of the bank guarantee shall be suitably extended by the Contractor. The bank guarantee will be discharged by Company not later than 30 days following its expiry.

### **19.1 INVOKATION OF PERFORMANCE BANK GUARANTEE:**





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In the event of the Contractor failing to honour any of the commitments entered into under the Contract and/or in respect of any amount due from the Contractor to the Company, the Company shall have an unconditional option under the guarantee to invoke their performance bank guarantee and clear the amount from Bank.

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

- 20.1** The Company may depute one or more than one representative (s) / Engineer (s) to act on its behalf for overall co-ordination and operational management at location. Company's representative shall liaise with the Contractor and monitor progress to ensure timely completion of the jobs. Company's representative shall also have the authority to oversee the execution of jobs by the Contractor and to ensure compliance of provisions of the Contract.
- 20.2** The Company's representatives shall have free access to all the equipment of the Contractor during operations as well as idle time for the purpose of observing / inspecting the operations performed by the Contractor in order to judge whether, in the Company's opinion, the Contractor is complying with the provisions of the Contract.

## **21.0 LABOUR:**

- 21.1** 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.

## **22.0 LIABILITY:**

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

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Company from and against such loss or damage and any suit, claim or expense resulting there from.

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

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

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

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

**22.6** Neither Contractor nor its servants, agents, nominees, assignees, contractors, sub-contractors shall have any liability or



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responsibility whatsoever to whomsoever for injury or illness, or death of any employee of the Company and/or of its contractors or sub-contractors irrespective of how such injury, illness or death is caused and even if caused by the negligence of Contractor and/or its servants, agents, nominees, assignees, contractors and sub-contractors. Company shall protect, defend indemnify and hold harmless Contractor from and against such liabilities and any suit, claim or expense resulting therefrom.

**22.7** 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.

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

## **23.0 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. (b) Notwithstanding any other provisions incorporated elsewhere in the contract, the aggregate liability of the Contractor in respect of this contract, whether under Contract, in tort or otherwise, shall not exceed 50% of the Annualized Contract Price, provided however that this limitation shall not apply to the cost of repairing or replacing defective equipment by the Contractor, or to any obligation of the Contractor to indemnify the Company with respect to Intellectual Property Rights. (c) Company shall indemnify and keep indemnified Contractor harmless from and against any and all claims, costs, losses and liabilities in excess of the aggregate liability amount in terms of clause (b) above.



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### **24.0 INDEMNITY AGREEMENT:**

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

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

### **25.0 INDEMNITY APPLICATION:**

The indemnities given herein above, whether given by Company or Contractor shall be without regard to fault or to the negligence 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.

### **26.0 WITHHOLDING:**

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

- a) For non-completion of jobs assigned as per Section-II.
- b) Contractor's indebtedness arising out of execution of this Contract.
- c) Defective work not remedied by Contractor.
- d) Claims by sub-contractor of Contractor or others filed or on the basis of reasonable evidence indicating probable filing of such claims against Contractor.



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- e) Failure of Contractor to pay or provide for the payment of salaries/ wages, contributions, unemployment compensation, taxes or enforced savings with-held from wages etc.
- f) Failure of Contractor to pay the cost of removal of unnecessary debris, materials, tools, or machinery.
- g) Damage to another contractor of Company.
- h) All claims against Contractor for damages and injuries, and/or for non-payment of bills etc.
- i) Any failure by Contractor to fully reimburse Company under any of the indemnification provisions of this Contract. If, during the progress of the work Contractor shall allow any indebtedness to accrue for which Company, under any circumstances in the opinion of Company may be primarily or contingently liable or ultimately responsible and Contractor shall, within five days after demand is made by Company, fail to pay and discharge such indebtedness, then Company may during the period for which such indebtedness shall remain unpaid, with-hold from the amounts due to Contractor, a sum equal to the amount of such unpaid indebtedness.

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

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

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

Notwithstanding the foregoing, the right of Company to withhold shall be limited to damages, claims and failure on the part of Contractor, which is directly/indirectly related to some negligent act or omission on the part of Contractor.

## **27.0 APPLICABLE LAW:**

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



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

- a) The Mines Act 1952- as applicable to safety and employment conditions
- b) The Minimum Wages Act, 1948
- c) The Oil Mines Regulations, 1984
- d) The Workmen's Compensation Act, 1923
- e) The Payment of Wages Act, 1963
- f) The Payment of Bonus Act., 1965
- g) The Contract Labour (Regulation & Abolition) Act, 1970 and the rules framed there under
- h) The Employees Pension Scheme, 1995
- i) The Interstate Migrant Workmen Act., 1979 (Regulation of employment and conditions of service)
- j) The Employees Provident Fund and Miscellaneous Provisions Act, 1952
- k) The AGST Act, WB & Bihar
- l) Service Tax Act
- m) Customs & Excise Act & Rules
- n) Assam, West Bengal and Bihar Entry Tax Act

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

**27.4** The Contractor shall not engage labour below 18 (eighteen) years of age under any circumstances.

## **28.0 RECORDS, REPORTS AND INSPECTION:**

The Contractor shall, at all times, permit the Company and its authorised 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 for inspection by the Company designated representatives and its authorised 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 related information requested by the Company whenever so requested.





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**29.0 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 change in application or enforcement or interpretation of existing law by any governmental authority or public body, 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.

**30.0 ROYALTY AND PATENTS:**

Each party shall hold harmless and indemnify the other 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 WAIVER:**

Any delay in exercising and any omission to exercise any right, power or remedy exercisable by the Company under this contract shall not impair such right, power or remedy nor shall any waiver by the Company of any breach by the Contractor of any provision of this contract prevent the subsequent enforcement of that provision by the Company or be deemed a waiver by the Company of any subsequent breach by the Contractor.

**32.0 PAYMENT & INVOICING PROCEDURE:**

**32.1** The 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 price schedule and in accordance with other provisions hereof. No other payments shall be due from the Company unless specifically provided for in this Contract. All payments will be made in accordance with the terms hereinafter described.

**32.2** All payments due by the Company to the Contractor shall be made at the Contractor's designated Bank. All Bank charges will be on Contractor's account.





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- 32.3** Payment of any invoices shall not prejudice the right of the Company to question the validity of any charges therein, provided the Company within one year after the date of payment shall make and deliver to the Contractor written notice of objection to any item or items the validity of which the Company questions.
- 32.4** The Contractor will submit six sets of all invoices duly certified by Engineer-In-Charge along with duly filled up activity completion sheet to OIL, Duliajan for processing of payment. One set of all invoices with measurement sheet to be submitted to Engineer-In-Charge for his record.
- 32.5** Invoices shall be raised by the Contractor as per the Payment Schedule prescribed in this document.
- 32.6** The 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 within 30 (Thirty) days from the date of receipt of the invoices at OIL, Duliajan. This will not prejudice the Company's right to question the validity of the payment at a later date. No interest shall be payable by the Company on any delayed / disputed amount.
- 32.7** The acceptance by the Contractor of part payment on any billing not paid on or before the due date shall not be deemed to be a waiver of the Contractor's rights in respect of any other billing, the payment of which may then or thereafter be due.
- 32.8** The Contractor shall maintain complete and correct records of all information on which the Contractor's invoices are based up to 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.
- 32.9** Any audit conducted by the Company of the Contractor's records, as provided herein, shall be limited to the Company's verification (i) of the accuracy of all charges made by the Contractor to the Company and (ii) that the Contractor is otherwise in compliance with the terms and conditions of this Agreement.

## **33.0 SAFETY**

- 33.1** The Contractor shall take all measures necessary to protect the personnel, work and facilities and shall observe safety rules and



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regulations as per Oil Mines Regulation & other statutory provisions. No smoking or open flame shall be permitted while operating inside Industrial area or any stations of the Company.

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

## **34.0 PROTECTION OF PROPERTY AND EXISTING FACILITIES:**

**34.1** The Contractor shall perform each work in such a manner as will prevent damage to the Company's property and conform to and are consistent with, operational practices of hydrocarbon industries. Any permanent damage /loss to the Company's pipeline, assets and plants due to actions undertaken by the Contractor in order to provide the services envisaged under this Contract shall have to be remedied by the Contractor, entirely at their own cost. This cost shall include and not be limited to actual replacement of such damaged pipeline, assets or plants, or payment of actual replacement cost in relation thereto as may be incurred by the Company.

**34.2** The Contractor shall take sufficient care in moving his plants, equipments and materials from one place to another so that they do not cause any damage to any person or to the property of Company or any third party including overhead and underground cables and in the event of any damage resulting to the property of Company or of a third party during the movement of the aforesaid plant, equipment or materials, the cost of such damages including eventual loss of production, operation or services in any plant or establishment as estimated by Company or ascertained or demanded by the third party shall be borne by the Contractor.

## **35.0 PERFORMANCE OF WORK:**

The Contractor shall submit daily reports to EIC detailing progress of different operations as per the scope of the work. The Company, at its option may change the periodicity of such reports. In addition, they shall submit the complete job report (with all pertinent details to serve permanent record) within 15 (Fifteen) days from the date of completion of each individual job. The manner and the speed of execution and maintenance of the operations are to be conducted in a manner to the

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satisfaction of the Company's representative. Should the rate of progress of the operations or any part of them is at any time too slow in the opinion of the Company's representative, (to ensure completion of the operations within schedule) the Company's representative may so notify the Contractor in writing. The Contractor shall reply to the written notice giving details of the measures, which he proposes to take to expedite the operations. If no satisfactory reply to the Company's notice is received in seven days, the Company shall be free to take necessary actions as deem to be fit.

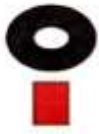
**36.0 PERMITS & CERTIFICATES:**

The Contractor shall procure, at his expense, all necessary permits, certificates and licences required by virtue of all applicable laws, regulations, ordinances and other rules in effect at the place where any of the works is to be performed, and Contractor further agrees to hold Company harmless from liability or penalty which might be imposed by reason of any asserted or established violation of such laws, regulations, ordinances or other rules. Company will provide necessary permits for Contractor's personnel to undertake any work in India in connection with Contract.

**37.0 POLLUTION AND CONTAMINATION:**

Contractor shall be responsible for loss or damage from pollution or contamination arising out of or resulting from any of the Contractor's services/operation unless such pollution or contamination is for reasons beyond the control of the Contractor.

**END OF PART-3 SECTION -I**



**PART – 3 Section-II**  
**TERMS OF REFERENCE,**  
**TECHNICAL SPECIFICATION**  
**and**  
**SCOPE OF WORK**



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

#### **1.0 INTRODUCTION:**

The Production from North Chandmari oilfield, located about 8 KMs to the northwest of Makum oilfield, is around 1403 KLPD (OIL 1321 KLPD, Water 82 KLPD). The field is producing from 8 Nos. of wells through a QPS (Quick Production Setup). Considering the potential of the field it is envisaged that Oil production is expected to rise to a level of 2200 KLPD as 25-30 wells are proposed to be drilled in that area. Associated Gas is expected to be around 0.67 MMSCUMD. **OIL INDIA LIMITED (OIL)** who is a pioneer E&P company to explore & exploit crude oil & natural gas with its Headquarters at Duliajan, Assam, propose to construct an Oil Collecting Station (OCS) at Barekuri to cater to the production in that area.

The OCS shall cover the following general facilities. Envisaged Minimum facilities (attached separately), which are required to be provided in the OCS, are detailed elsewhere in this document:

- 1.1** Capacity to process 3600 KLPD of fluid for separation of Oil, Gas, Water & sludge.
- 1.2** Produced Water treatment, storage & safe disposal to disposal well/injection well.
- 1.3** Crude Oil dehydration facility to bring down BS&W (Basic Sediment & Water) to less than 0.15 % (w/w).
- 1.4** Storage capacity of minimum 5000 KLs for Crude Oil.
- 1.5** Effluent water system to oil spills / rain water in pits.
- 1.6** Crude Oil pumping facility for transportation through 200 MM NB pipeline to Duliajan (around 25-30 KMs of pipeline length).

OIL has retained M/s KAVIN Engineering and Services Private Limited, Coimbatore as EPMC consultant for the work. EPMC have prepared the FEED documents for construction of the OCS. The final FEED is enclosed along with this EPC tender.

Moreover, a HAZOP study of the proposed Barekuri OCS has been carried out based on the FEED documents. The HAZOP report is also enclosed with this tender for reference.



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### 2.0 **OBJECTIVE:**

OIL requires the services of EPC (Engineering, Procurement and Construction) contractor for the Oil Collecting Station at Barekuri in accordance with the given Terms of Reference. This section establishes the scope and schedule for the work to be performed by the EPC contractor and describes the guidelines, instructions etc., which the EPC shall satisfy or adhere to in the performance of the work.

Basic Engineering & Front End Engineering Design (FEED) for the above facility to establish the system requirements considering entire life of the field including the process description, basic scheme of the system, P&ID's Soil Investigation, Soil Liquefaction Effect, Topographical survey etc have already been firmed up by EPMC/OIL. EPC Contractor is required to adhere to the specified scheme strictly. Any Deviation in the specified parameters suggested by contractor shall be substantiated with documentary evidence / calculations for review by EPMC.

EPMC has already made presentation of computer animated 3D Walkthrough model to OIL based on process flow concept as per Basic Engineering & FEED, for design visualization of entire plant layout which they conceive, their milestones and operations of the units with focus on critical processes.

The facilities provided in the OCS are latest, suitable, appropriate & proven technology. The proposed installation is designed to meet all the latest and relevant standards for QHSE-ISO and ISRS (International Safety Rating System) etc. The facilities proposed to be set up, would be based on latest process control system available including online monitoring and control facility for the entire plant and measurement for fluid at inlet and outlet.

Approved Basic Engineering & Front End Engineering Design (FEED) documents are attached herewith for references.



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### 3.0 EXECUTION METHODOLOGY:

The entire project will be designed, constructed and executed (Bar Chart is to be provided) by Contractor in the following manner.

#### 3.1 PHASE-I:

**Phase – I activities listed below have been completed by EPMC Consultant for the project.**

- 3.1.1** Escape, Evacuation and Rescue Analysis as well as HAZOP study of the proposed OCS.
- 3.1.2** Basic Engineering & Front End Engineering Design (FEED) to establish the system requirements considering entire life of the field, which is approved by OIL.
- 3.1.3** Presentation of computer animated 3D Walkthrough model to OIL based on process flow concept as per Basic Engineering & FEED, for design visualization of entire plant layout showing major process equipment's and other units.

#### 3.2 PHASE-II:

After awarding of contract, the EPC Contractor shall carry out following activities, but not limited to, in order to complete the construction of the project under supervision of EPMC and OIL.

- 3.2.1** Contractor shall prepare 3D walk through Computer model on PDS platform for OCS facility based on detail engineering carried out by them. Project design review will be done on 3D model at 30%, 60% & 90% stage by OIL/EPMC. The 3D computer model shall have simulation and Life Cycle Data sheet. Contractor to provide PDS software with assurance for maintenance support from the OEM/authorized dealer for minimum 5 years.
- 3.2.2** Contractor shall update construction sequences in the 3D computer animated model with simulation with approval of EPMC & OIL.
- 3.2.3** Contractor shall carryout complete Process engineering & detail engineering of OCS facility for all disciplines and obtain approval of EPMC/OIL. Whenever required Contractor will provide access to EPMC/OIL engineers to their design office.



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- 3.2.4 Contractor shall float *enquiries* for required items for the project to EPMC/OIL approved Vendors only.
- 3.2.5 Technical Bid evaluation of critical & major items viz. Dehydrators, indirect heater, fire fighting equipment, ETP equipment, all pressure vessels, pumps, gen sets, compressors, control valves & controllers, MOVs and complete Instrumentation & Control system shall be submitted to EPMC/OIL for approval.
- 3.2.6 Contractor shall place order only after obtaining confirmation from EPMC/OIL.
- 3.2.7 Contractor shall carry out Inspection and expediting services for all the ordered items for the project. Wherever required, EPMC/OIL will also visit vendor shops to witness inspection / testing.
- 3.2.8 Contractor shall carry out Construction of OCS facility as per latest codes & standards. Contractor's Site-in-charge shall report to competent person of EPMC/OIL deputed at site on day to day basis.
- 3.2.9 Contractor shall have competent Project Manager & Construction Manager with relevant experience at design office & site.
- 3.2.10 Contractor shall depute team of planning engineers at design office as well as site to monitor & control the project progress.
- 3.2.11 Contractor shall depute competent persons to ensure quality control and safety of operations.
- 3.2.12 Contractor shall construct temporary site office with all amenities and facilities for execution of site activities.
- 3.2.13 Contractor shall adhere to statutory guidelines followed in upstream oil industry.
- 3.2.14 Arrange for construction power, water and other utilities required during construction, pre-commissioning & commissioning phases.



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- 3.2.15 Start-up/Pre-commissioning and integration of the plant. OIL/EPMC shall be associated during pre-commissioning & trial run of the plant.
- 3.2.16 Commissioning assistance.
- 3.2.17 Engaging competent manpower for pre-commissioning, preparation of manpower deployment pattern as per provisions of OMR and other Govt. regulation.
- 3.2.18 Provide inputs and assist EPMC in preparation of equipment log book, Safe Operating Procedure for all equipment and various facilities including and not limited to civil, mechanical, electrical, instrumentation.
- 3.2.19 Finalization & completion of live 3D computer animated walkthrough model by Contractor with EPMC's approval and putting it in-line.
- 3.2.20 Arranging training of OIL personnel in coordination and conjunction with EPMC/OIL.

### **3.3 PHASE-III:**

Successful continuous Trial run of the Plant for 3 (three) months by Contractor with commissioning assistance from EPMC. It is a strict time bound work and will require best efforts and deployment of best qualified experience personnel from the Contractor.

## **4.0 SCOPE OF EPC:**

OIL requires the services of EPC (Engineering and Procurement and Construction) contractor to construct the Oil Collecting Station (OCS) at Barekuri in accordance with the given Terms of Reference. This section establishes the scope and schedule for the work to be performed by the EPC and describes the guidelines, instructions etc., which the EPC shall satisfy or adhere to in the performance of the work. The MINIMUM FACILITIES ENVISAGED for the OCS covering different disciplines have been given below to facilitate the EPC to visualize the work requirement. The EPC shall design the facilities based on current practice followed in the upstream oil & gas industry and in consideration of the statutory regulations like OMR (Oil Mines Regulations), Indian Boiler Act guidelines, IE Rules of statutory bodies like OISD (Oil Industry Safety Directorate), CMRI (Central Mining Research Institute), DGMS (Director General of Mines and



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Safety), PESO (Petroleum & Explosives Safety Organization), Ministry of Environment and Forest (MOEF), Assam Pollution Control Board, LMD (Legal Metrological Departments) and any other relevant laws, by-laws, or Acts in force. All electrical and instrumentation items must have DGMS approval for use in hazardous area zone-1 & zone-2, gas group-IIA & IIB of oil mines with DGMS logo embossed on the body of the equipment/instrument. However, Field trial permission for individual equipment/instrument will not be considered as approval from the Statutory Body.

The brief scopes of EPC are Pre-Engineering Survey, Detailed design/ engineering based on Basic Engineering package, Procurement, Manufacturing & Delivery, Fabrication and supply, site grading and leveling, Construction (Civil and Structural), Transportation, Erection / Installation, Piping, Hook-up to the systems, Painting, Instrumentation, Electrical works, Testing, Pre-commissioning and Commissioning after successful completion of 3 months continuous Performance Guarantee Test Run (PGTR) of the total System on **Lumpsum Turn Key Basis (LSTK)** including supply of mandatory spares.

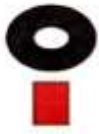
It is not the intent to completely specify all the details of design and construction, nevertheless the unit shall conform in all respects to high standards of design, engineering and workmanship. Any piece of unit or equipment not specifically mentioned in this specification, but required to make the unit complete, safe, operable and consistent with good engineering practices shall be provided by the contractor at no extra cost and shall be deemed to have specified. EPC Contractor shall prepare the detailed document control index / document schedule based on the respective Job Specifications for the complete project and submit the same during Kick-Off meeting as first document for OIL/EPMC review. Any additions to this document during the progress of the project by OIL / EPMC shall be taken care by the EPC contractor without cost / time implications. Document submission shall be strictly as per this Index.

#### **4.1 DETAIL ENGINEERING:**

Based on Basic & FEED engineering work done by EPMC, Contractor will develop Detailed Engineering.

The Contractor should carry out design of Barekuri OCS as detailed below:

1. The FEED documents prepared by EPMC are a guide line



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documents and inputs to Contractor to carry out detail engineering, procurement & Construction of OCS facility. The Contractor shall carry out any other engineering, procurement, construction etc., over and above of that mentioned in the EPMC guidelines, required to complete the Project with no extra cost to the Company. All such activities shall be vetted by EPMC/OIL

2. Detail Design/ Engineering shall include HAZOP study, SIL study, Preparation of 3D Computer modeling with simulation of the OCS on PDS (Plant Design System) or PDMS (Plant Design Management System). Following on from Basic or FEED engineering work, EPC contractor will develop Detailed Engineering as per EPMC's guidelines. Detailed Engineering phase shall include submission of HSE plan and Quality assurance plan, both specific to this project, procurement support, fabrication drawings, construction drawings for foundation, steel frame, construction drawings for electrical equipment, instrumentation and piping, vents/drain, Hook ups, Loops, vendor data etc. Hazardous area layout based on DGMS guidelines should be prepared by EPC and submitted to EPMC/OIL for approval.
3. All detailed Engineering, Civil, Structural, Mechanical, Instrumentation etc. which forms a part of the Project shall be approved by the EPMC. Construction work shall only be carried out based on Approved for Construction (AFC) drawings released by the EPMC.
4. Updating of construction sequences in the 3D computer animated model with simulation. EPC needs to provide PDS/PDMS software with assurance for maintenance support from the OEM/authorized dealer for minimum 5 years.
5. Inspection and expediting services.
6. Construction supervision and assistance in project management.
7. Adherence to the TOR requirements and control.
8. Ensure quality control and safety of operation and certify the jobs executed
9. Ensure adherence to statutory guidelines followed in upstream oil industry.



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10. Provide statutory approvals for individual equipment / instrument.
11. Ensure that all equipment's / instruments have statutory approvals as required by DGMS for installation in Hazardous area.
12. Finalization & completion of as built live 3D computer animated walkthrough model of the OCS by EPC contractor with EPMC's approval and submission to OIL.
13. Submission of list of BOM (Bill of materials) in soft and hard form against all materials & equipment's installed at the OCS along with quantities, manufacturer details, technical specifications etc.
14. Pre-commissioning of individual process blocks and equipments submit commission report to EPMC /OIL.
15. Successful continuous Trouble free Trial run of the Plant along with all installed equipments 3 (three) months.

## 4.2 PROCUREMENT

The scopes of work of this Contract are composite in nature which contains broadly:

- a) All items as mentioned in **clause: 4.2.1** of this section shall be procured.
- b) All materials required for successful completion of this project shall be procured by the contractor from OIL approved vendors/suppliers or from the vendors with specific approval from OIL. It is mandatory that all equipments, machines and bulk materials are procured only from recommended approved vendor list of the package in "VENDOR LIST". In case vendor list of a particular item is not available, the contractor shall specifically seek OIL approval on the proposed list of vendors during Bid Stage for all major items. Any Deviation to vendor list should be brought out in the offer and no other vendor shall be accepted afterwards. Documentary evidence with respect to procurement from approved manufacturers as well as test report (Mill Test Certificate) must be submitted to OIL for approval before starting the job.



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- c) All materials including the vessels, equipment (fixed and rotary), indirect heaters (including chimney), accessories of vessels and equipment, raw materials for tanks construction, pipes of different dia. and length, valves, pipe fittings, all structures, structural platforms / ladders, stairs, supports electrical items, instrumentation items, paints etc. within the specified battery limits etc. will be procured and transported to project site by EPC Contractor.
- d) Unloading at site, Safe storage at project site and site transportation are under scope of EPC contractor.

#### 4.2.1 MAJOR EQUIPMENT LIST

The equipment list given in the following are indicative and for giving a broad outline of equipments coming in the package.

- a. Mechanical - Document **1190-M-LL-0500**
- b. Instruments - Document **1190-I-GD-0800**
- c. Electrical - Document **1190-E-LL-0900**

#### 4.3 MECHANICAL ENGINEERING TERMS AND CONDITIONS

The technical requirement shall be as per **Mechanical Design Philosophy Doc. No: 1190-M-DB-0500 and Piping Design Philosophy Doc. No. 1190-L-DB-0400**

##### 4.3.1 EQUIPMENT ENGINEERING:

It will include but not limited to:

- 4.3.1.1** Preparation of drawings as per Basic Engineering & FEED documents, defining major equipment, giving the layout of equipment with sections and elevations, wherever necessary for equipment engineering as per the statutory guidelines followed in upstream oil industry.
- 4.3.1.2** Provide specifications / standards for all equipment and machinery to be procured as part of turnkey supply considering system and statutory requirements.
- 4.3.1.3** Finalize agreed specification / standards for equipment/machinery to be incorporated in the contract of turnkey supplier in consultation with OIL/EPMC.





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**4.3.1.4** Review/approval of drawings/documents of turnkey supplier during execution as necessary & obtaining OIL/EPMC approval.

**The job involves the following:**

- i. The fabrication of module structures, vessels and pre-fabrication of piping spools shall be carried out at EPC contractor fabrication yard or at the approved sub-contractor yard. The list of nominated sub-contractor(s) shall be submitted to EPMC/OIL for approval. All pressure parts shall be subjected to required non destructive examinations and hydro test.
- ii. Safe and quality installation of modules, pressure vessels(vertical and horizontal), indirect bath heaters, Boilers, Generating sets, pumps, filters in different foundations to the satisfaction of EPMC/OIL shall be performed by the contractor.
- iii. Tanks shall be fabricated at site and tested, in general, in accordance with API 650. Tanks shall be provided complete with supports, nozzles and openings with appropriately rated flanges, lifting lugs, ladders and platforms. Level indication and instrumentation directly attached to the tank should be included as part of the Tank contractor's scope.
- iv. The tank shell to roof and shell to bottom shall be butt – welded. Adequate stiffeners shall be provided to prevent buckling of tanks under the hydrostatic head and to ensure mechanical stability.
- v. Depending on the tank height internal / external access ladder shall be provided. Tanks shall generally have floors sloping towards drain nozzle.
- vi. Tanks shall be adequately supported on a rigid base that provides a clear gap between tank bottom and platform deck to facilitate washing down and avoid accumulation of water.
- vii. Stair way and railing at the tank top shall be constructed.
- viii. Fabrication and Erection of circular ring type Water Spray System for the tanks up to the Tank bottom flange (ground level) as per applicable specifications / codes and as per drawing. The contractor will have to supply all materials including pipes, valves, pipe fittings, and water spray nozzles support structures etc.
- ix. Carrying out Radiography of plate joints and Air / Vacuum test of the bottom plate as per applicable code and specifications. Cost of radiography and air & vacuum test etc. for the Tanks shall be





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included under the respective item.

- x. Supply, fabrication and erection of overhead walkways (as per latest standard norms) with railings across the tanks from one tank top to another. The overhead walkways are required between Tanks will be decided during detail engineering. All materials required for the job will be supplied by the contractor.
- xi. Materials and appropriate internal and external surface protection coatings shall be specified by vendor. Grade 316 L SS shall be used for water storage tanks and lubrication oil tanks.

#### **4.3.2 PROCESS PIPING ENGINEERING:**

It will include but not limited to :

**4.3.2.1** Stress analysis as required for critical piping.

**4.3.2.2** Detailed Design of all equipment like Vessels, Tanks, dehydrators, Heat Exchangers. Pumps and engines, instrumentation control and monitoring, electrics and illumination and steam generation and distribution etc. required for the proposed system.

**4.3.2.3** Preparation of detailed technical specifications including data sheets, tender drawings, basic layout, estimated quantities of execution for various contracts including civil, structural, equipment, piping, electrical, instrumentation as required for the process and statutory guidelines.

**4.3.2.4** Provide final agreed specification/standards for piping engineering in consultation with OIL/EPMC.

**4.3.2.5** Submission of all documents for Review/approval of OIL/EPMC with respect to engineering performed and statutory requirement.

#### **The job involves the following:**

Stringing, swabbing, cleaning , welding of different diameters and thickness of pipes, installation of pipe fittings, valves, controllers, expanders/ reducers, radiography of welding joints, surface cleaning,



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primer coating, painting(incl. colour code), hydro testing and complete the whole process piping network to the satisfaction of EPMC/OIL and commissioned the whole plant in conjunction with EPMC/OIL. The piping system should be self sufficient, self contained and zero leak to the environment. All the jobs should be carried out with strict adherence to all the ASME specifications as well as safety rules and regulations prevailing in upstream oil company. Process piping fabrication shall be as per ASME B31.3 standard latest edition.

#### **4.3.3 GENERAL GUIDELINES FOR FABRICATION AND ERECTION:**

- i. The contractor shall submit the method statement for the construction of tanks before commencing the construction and Installation sequence before commencing the erection/installation.
- ii. The entire job shall be carried out under constant supervision of contractor's experienced and qualified personnel.
- iii. The electrodes used shall be of suitable gauge and specification and will be approved by the company engineer. Prior to starting of erection job, once approved, change of electrodes will not be allowed during the process of welding. All necessary alignment and end preparation of the plates shall be done prior to welding.
- iv. Welding shall be of radiographic quality conforming to the required specification. The welding joints will be subjected to random radiographic test in accordance with requirement. Cost of radiography shall be included under the respective item.
- v. The welders engaged for the job must have sufficient experience in similar jobs to ensure proper quality of welding. Prior to engagement, all welders will be subjected to tests by the company and only the approved welders will be allowed to carry out welding jobs.
- vi. The contractor shall supply all the steel plates of tested quality conforming to IS: 2062 including for welder test, labour, machineries, equipment, consumables etc. required for complete fabrication and erection work.
- vii. Materials supplied by the contractor will be inspected / tested by the company engineers and only the approved materials will be allowed to use. Rejected materials will be replaced at contractors cost. Similarly repairs to any plates / materials will be borne by the contractor.



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- viii. Transportation of all materials including loading and unloading; fabrication and installation of all piping works; final alignment of pressure vessels after placing of foundations; fabrication and installation of manifolds, supports, walkways, various sheds etc; laying of electrical cables; providing earthing system to various separators / pressure vessels; execution of other electrical engineering jobs, execution of various civil engineering jobs; execution of various fire fighting and water supply works; painting of all pipe fittings, piping & vessels; hooking up of all vessels / piping etc. including relevant hydraulic tests, shall be the scope of the contractor.
- ix. Water supply, security, Electrical powers for the welding / grinding & for running other machineries during the construction phase are to be arranged by Contractor. The job will be normally carried out in the day hours only. However, in case of urgency company may consider to allow the contractor to carry out the jobs in the night hours if the proper illumination at work site is arranged by the contractor at their own cost.

#### 4.3.4 INSPECTION AND TESTING:

Detailed quality control Plan (Inspection Test Plan) shall be submitted to EPMC/OIL for approval before starting the fabrication work. **All inspections / tests / Certificates shall have approval of EPMC.**

##### 4.3.4.1 Inspection & Testing of materials:

- a. The EPMC/Company shall be entitled at all times at the risk of the contractor to inspect and/ or test by itself including radiographic test or through an independent person(s) or agency(ies) appointed by the company and/ or to direct the contractor to inspect and/ or test all materials, items and components whatsoever supplied or proposed for supply for incorporation in the works, inclusive, during the course of manufacture or fabrication by the contractor and/ or at the contractor's works or otherwise the inspection and/ or test shall be conducted at the expense of the contractor and if conducted by the contractor may be directed by the company to be conducted by the agency(ies) nominated by the company and/ or in the presence of a witness(es) or agency(ies) nominated by the EPMC/Company.



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- b. The site engineer shall be entitled to reject at any time any defective material, item or component (including specially manufactured or fabricated items or components) supplied by the contractor for incorporation in the works notwithstanding previous inspection and/ or testing thereof by or on behalf of the Company without rejection and notwithstanding previous approval thereof by or on behalf of the Company the decision of the site engineer as to any defect as aforesaid being final and binding upon the contractor and upon such rejection the contractor shall perform such work as shall be necessary to bring the material/ item/ component to the requisite standard or shall if so required by the site Engineer (whose decision in this behalf shall be final) remove the rejected material/ item/ components from the job site within the time specified by the site engineer and replace it at his own cost and expense with material(s)/ item(s) component(s) approved by the site engineer.

#### **4.3.4.2 Inspection & Testing of works:**

- a. The contractor shall at all times ensure high standard of workmanship, related to the work to the satisfaction of the site engineer. The site engineer shall have the power to inspect the work in all respects at any and all times up to the completion of the work as also to test or instruct the contractor to test the works or any structure, material(s) or component(s) thereof at the risk and cost of the contractor.
- b. The contractor shall provide all facilities, instruments, materials/ labours etc. required for testing of the works and shall provide the site engineer all assistance necessary to inspect the tests carried out by the contractor.
- c. The contractor shall also provide and keep at all times during the progress of the work, proper means of access to the work and every part thereof by means of ladders, gangways etc. for inspection and measurement of the work.
- d. Should the site engineer on inspection or test be not satisfied with the quality or workmanship, of any work, material or component (the decision of the site engineer being final in this behalf) the contractor shall re-perform, replace, re-install and/ or re-erect as the case may be such work, structure material or component and no such rejected work, structure, materials or item or component shall be re-



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used with reference to the work except with the prior permission of the site engineer.

**4.3.4.3 Final test and possession of works:**

- a. As soon as the works have been completed in all respects to the satisfaction of the site engineer, final tests of the works shall be undertaken by the contractor at the risk and costs of the contractor in the presence of the site engineer. The company may at its discretion permit final tests in piecemeal in respect of particular part(s) or sections(s) or group(s) of the works or in respect of particular job site(s) involved.
- b. Upon satisfactory completion of the final tests, the site engineer shall prepare a final test certificate witnessed by the contractor, which shall certify the date on which the final tests in respect of the works have been successfully completed and where final tests have been conducted in piecemeal in respect of the concerned part(s)/ sections(s)/ group(s)/ job site(s).
- c. As and from the date of successful completion of final tests as mentioned in the final test certificate the Company shall be deemed to have taken over the work(s)/ part (s/ section(s)/ group(s), in respect of which final test certificate have been issued.
- d. If during the Final Tests or prior thereto any defect(s) in any work performed or structure or component installed/ erected or material or other items incorporated in the works is/ are noticed, the contractor shall forthwith remove and/ or demolish the same and re-perform, replace, reinstall or re-erect the same and otherwise do and provide whatever is necessary to be done or provide to correct, repair and/ or rectify the defect(s) to the satisfaction of the site engineer.

**4.3.4.4 Inspection and testing of tanks and pipeline:**

- a. Visual inspection- Finish weld, shall be visually inspected for parallel and axial misalignment of the work, cracks, inadequate penetration, unrepaired burn through, dimension and other surface defects and it must present a neat appearance.
- b. Radiographic examination



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- c. The radiography of the welding joints would be carried out by an inspection agency approved by the Company. The contractor shall make necessary arrangements and shall include the cost in the bid for the equipment as well as radiographic films.
- d. The procedure of radiographic examination, limits of acceptability, removal and repair of defects shall be approved by the EPMC / engineer in-charge. Cracks and lack of root fusion/ penetration are considered as injurious defects and shall not be permitted. Contractor shall be responsible for carrying out radiographic examinations of defects and re-radiography of the welds rectified. He/ she shall make necessary arrangements for the equipment as well as radiographic films at his own cost for the repairing of the defective welding joints.
- e. Contractor shall fulfill all the statutory safety requirements in handling the X-Ray and Gamma rays equipment.
- f. Joints to be radio graphed shall be selected by site engineer and the radiography shall be carried out in his presence. The contractor shall submit all the radiographs along with radiographic reports of the defective joints to the site engineer/ engineer-in-charge immediately after processing the radiographs for approval. The details of the radiographs shall be duly recorded and signed by him in the radiographic reports.

#### **4.3.4.5 Pressure testing of piping:**

- a. Soundness of the weld shall be tested by the contractor in the presence of site engineer by hydrostatic/ pneumatic means.
- b. Prior to test, installation shall be inspected by the site engineer to the extent necessary to ensure compliance with engineering design with respect to material, fabrication and assembly. The contractor shall obtain clearance for such tests from the site engineer.
- c. Valves shall be tested individually before installation by the contractor at his own cost.
- d. All piping including valves, flanges, fittings etc. shall be tested hydraulically to the recommended pressure in presence of the site engineer. Necessary pump, tools, water





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& all other accessories for hydraulic testing shall be arranged by the contractor. Only pressure recorder & chart will be provided by the company. If the pressure does not hold good due to contractor's defect workmanships, the same shall be rectified & hydraulic testing shall be redone free of cost.

#### **4.3.4.6 Pressure testing of tanks: Bottom plate test**

- a. Tightness of the bottom plate shall be checked by air pressure test at 75 mm water column or by vacuum box. The gauge in case of vacuum test should register a partial vacuum of at least 2 PSI.
- b. The entire weld length shall be tested in presence of site engineer.
- c. After completion of erection, the tank shall be cleaned properly. All weld lugs and brackets used for erection purposed shall be carefully removed from inside and outside surface of the tanks to the entire satisfaction of the site engineer.
- d. All equipment required for testing shall be supplied by the contractor.
- e. The contractor shall perform the hydrostatic test in presence of the site engineer or the Company's representative.

#### **4.3.5 REPAIRS OR REMOVAL OF DEFECTS:**

- i. Defects that are not within the acceptable limits shall be removed from the joint completely by chipping or grinding.
- ii. No repairs shall be carried out without prior approval of site engineer.
- iii. All leaks defectd during testing shall be repaired to the satisfaction of site engineer and on completion; the entire tank shall be tight and free from leaks.
- iv. When the tank is filled with water for testing, defects in the shell joints shall be repaired with the water level at least 300 mm below the joint being repaired.
- v. After completion of all repairs the tanks shall be retested in mentioned earlier.

#### **4.3.6 CLEANING:**





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- i. All equipment in the system shall be cleaned and flushed free of all dirt, debris and loose foreign material after approval of pressure testing by the site engineer/ engineer-in-charge.
- ii. Orifice plates and other similar restrictions shall not be installed in the piping system until flushing has been completed.
- iii. Proper temporary drainage for flushing water shall be provided so that no damage is done to permanent facilities.

#### 4.3.7 PAINTING & INSULATION:

- i. Painting covers the general requirements like surface preparation, painting, application sequence, colour codes etc.
- ii. Paint selected shall be such that they should be able to withstand all weather conditions as well as atmospheric conditions of the plant area. Site Engineer shall approve all paints that are used for work.
- iii. Anti corrosive painting and consideration for SRB (Sulphate Reducing Bacteria) in the supplied crude should be taken into account while designing/ selecting the paint for inside area of all tank, pipes & vessels.
- iv. Painting of entire installation including, equipments, separators, equipment sheds, Dyke Wall, Office Building and all other facilities in the installation.
- v. Insulation of Pipes, Heaters, Vessels etc. as applicable as per standard industry practice and applicable codes & standards and as directed by EPMC/OIL.
- vi. The Insulating material, Paint Material, Procedure of application, Selection etc. shall be approved by EPMC/OIL.

**4.3.8** The color coding shall be as per standard color code of OIL and instructions of site engineer.

#### 4.4 PROCESS:

It shall include but not limited to:



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- 4.4.1** Establish operation of the system based on FEED, Basic Engineering and process philosophy of EPMC and approval from EPMC/OIL.
- 4.4.2** Establish final design parameters/basis and limit of the system.
- 4.4.3** Establish latest, suitable, appropriate & proven technology and development of Good Practice Guidelines.
- 4.4.4** Updating of plant layout diagram based on conceptual flow diagram and site map with due consideration to the statutory requirements followed in upstream oil sector including OMR, OISD and other Govt. laws and by laws as applicable.
- 4.4.5** Updating of Process Flow Diagram (PFD) & Piping & Instrumentation Diagram (P&ID) during detail engineering based on vendor data. It should show operating conditions, Material Balance, Heat Duty, Composition of streams etc.
- 4.4.6** Preparation of Process Package operating summary of detailed Engineering, brief description of plant, measurement-control-automation, ground flare system, effluent disposal system, P&ID, PFD, Plot Plan etc., utility requirement and fire protection & fighting system as per statutory requirements, disaster management plan, guaranteed plant performance, turned down conditions etc., Equipment Layout, Line Schedule, Instrument Schedule etc.
- 4.4.7** Preparation of Plant operation manual complete with process control safety measures and procedures during commissioning and operation, etc.
- 4.4.8** Preparation of time schedule for implementation.

## 4.5 CIVIL & STRUCTURAL TERMS AND CONDITIONS:

This jobs includes broadly supply of imported earth including grading and leveling, supply of all material and construction of foundations, sheds, building, industrial drainage ( RSW & OWS), roads, O/W separator, dyke wall, cement mattressing, hard standing, walkways , landscaping, tank foundations as per the specification provided **CIVIL & STRUCTURAL DESIGN PHILOSOPHY** Doc. No: **1190-S-DB-0600**.

**CIVIL & STRUCTURAL:** It will include but not limited to

- 4.5.1** The Detail soil investigation is carried out by EPMC and all test report including soil characteristics, ground water table level, safe bearing capacity and recommended type of



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foundations for various types of structures proposed for the project *are* furnished considering the all relevant BIS codes. Topographical survey is made and detail contour map is prepared for the site. This contour map to be used as a reference map for earth work, finalization of finished ground level, layout of various structures etc. **The Topographical survey reports are attached with EPC Tender.** The soil investigation report will be submitted as an addendum. If Contractors feel to carryout additional soil tests, it will be done at their cost through OIL approved contractor.

- 4.5.2** Economical planning of layout of all the facilities of Barekuri OCS considering serviceability, utility and safety.
- 4.5.3** Detail Planning, analysis, and design of all the structures, facilities, various foundations including offices, sheds and control room, overhead water tanks etc. as per relevant BIS Codes and National Building Code. The necessary static and dynamic loading shall be obtained from different vendors or generated wherever required as a basic data for civil & structural design including different types of foundations. Where BIS codes are not sufficient, Contractor may refer to the American Petroleum Institute (API) Standard; however, reasons for such references to be briefed.
- 4.5.4** Detail analysis & design as per relevant BIS codes on approval of concept design by OIL/EPMC.
- 4.5.5** In designing foundations for various equipment, the static or dynamic loads, which are to be considered, are to be obtained by Contractor from either vendors or reliable sources. The final design and drawings are required to be submitted for approval of OIL/EPMC (both hard and soft copies) by Contractor. During the course of detail designing if any clarifications are required, the same will be furnished by EPMC.
- 4.5.6** Use of Pre-engineered structure for structural sheds also to be considered.
- 4.5.7** EPC contractor shall include the cost for the minimum furniture required for the rooms/ hall in the office building, accommodation, security building, control rooms etc. The model/type of the furniture shall be mutually agreed between OIL/EPC contractor during construction stage.
- 4.5.8** Detailed Engineering Drawings should be prepared in detail in CAD /Auto-CAD and should cover all the details including the bar bending schedule, Joints and weld details or other shop drawings as per the requirement. The drawing shall include:



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- I. Name of Project, Company (OIL), Consultant & Contractor.
- II. Title of the Drawing
- III. Drawing No. Issue Date, Revision No.
- IV. Statement for Revision
- V. Revision Identification Mark
- VI. Release Status
- VII. Designer/Checker' s/Draughtsman's name/initial

**4.5.9** The Contractor shall maintain an up to date drawing & document register and monitor drawing & document issued. This register shall list all drawings & documents used in the design and construction for civil and structural works. The drawing register shall be a controlled document and shall be kept updated / revised and shall be issued on A3 /A4 size sheets.

**4.5.10** Incorporation of modifications during the course of execution of the project and incorporation of the same in relevant revisions and issue of revised drawings are in the scope of Contractor.

## **4.6 INSTRUMENTATION:**

The Instrumentation work shall be carried out as per the specification provided **DESIGN PHILOSOPHY-INSTRUMENTATION & CONTROL Doc. No: 1190-I-DB-0800 and DESIGN BASIS-INSTRUMENTATION & CONTROL Doc. No: 1190-I-DB-0801.**

It will include but not limited to:

**4.6.1** Selection & Erection of Instrumentation & Control System for the following:

- All facilities/equipment's/systems of the OCS.
- Tank Farm Management System
- Flow Metering System
- Multi phase flow meter
- Motorized Valve
- Bath Heaters
- Emulsion Treaters(Crude Dehydrators)
- Separator Vessels etc.
- Crude Oil Dispatch Pumps
- Produced water Treatment system.
- Effluent collection system from process area.



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- All utility systems.

- 4.6.2** Preparation of interlocks and protection specs.
- 4.6.3** Preparation of control system scheme.
- 4.6.4** Preparation of measurement loop diagrams.
- 4.6.5** Preparation of instruments index and specifications for field instruments and accessories.
- 4.6.6** Preparation of control room layout and control panel GA drawings etc.
- 4.6.7** Designing of mimic panel, surveillance camera and monitoring system.
- 4.6.8** Calculation of total electrical load for Instrumentation systems and design of suitable UPS
- 4.6.9** Preparation of technical specifications/data sheets for all instruments.
- 4.6.10** Preparation of instrument layout drawings, cable schedule, and interconnection diagrams.
- 4.6.11** Preparation of instrument installation standards and erection specifications.
- 4.6.12** Provide final agreed specifications/standards for all instrument supplies and installation/erection under turnkey concept as part of contract document.
- 4.6.13** Complete erection, site testing after erection, startup, commissioning and performance testing of the Instrumentation, control & Data acquisition system..The plant shall be largely controlled from a Central control room attached with a battery room. All the electronic cubicles and the operator control center shall be located in control room.
- 4.6.14** Interconnection between field equipments/devices and control room. Interconnection between devices installed in the control room including UPS

## 4.7 WATER SUPPLY & FIRE FIGHTING SYSTEM:

The Fire fighting system work shall be carried out as per the specification provided.



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This jobs includes broadly Detailed engineering of fire fighting system, Supply and installation of pump and different diameter lines from Water supply well pump, (Water supply well will be made available by OIL), Supply of all materials, construction of RCC above ground tank, Laying of fire fighting lines as per latest OISD/ OMR guidelines (whichever is stringent), installation of fire hydrants, Water Monitors, TPC's, laying of foam lines, Supply of materials and fabrication of Foam Tank (SS) including staging, Supply of materials, fabrication, erection, painting (internal and external), commissioning of Overhead potable water tank and industrial water for Barekuri OCS including staging, Water line piping network etc.

- 4.7.1** The fire protection and fire fighting facilities shall conform to *OISD115, OISD 116, OISD 117, OISD 189, OMR, NFPA, BIS and TAC* norms and to meet requirements of ISRS protocol etc. in general.
- 4.7.2** Detail design of Fire water storage, pump, distribution network and preparation of fire water network diagrams.
- 4.7.3** Detail design of Foam flooding system for floating roof tanks as per statutory guidelines. Foam Pumps should be electric motor driven along with one diesel engine driven set for disaster conditions.
- 4.7.4** Fire detection facility shall be addressable at control room with manual call point & fire alarm system. Fire water drenching pumps shall be diesel engine driven. Jockey pumps shall be electric motor driven. Fire water main shall be ring main type.
- 4.7.5** The system for above ground portion shall be analysed for flexibility against thermal expansion and necessary expansion loops where called for shall be provided. The underground crossings should be provided with suitable casing pipes and should be provided with anticorrosive lining up to 30 cm above the ground level.
- 4.7.6** M.B.Lal Committee recommendations shall be followed for designing floating cone roof tanks.
- 4.7.7** There shall be above ground fire water storage tank of two hours capacity of maximum fire water requirement.
- 4.7.8** OCS shall be equipped with first aid fire fighting equipment as per OISD-189.

## 4.8 ELECTRICAL:

The electrical work shall be carried out as per the specification provided **ELECTRICAL DESIGN PHILOSOPHY** Doc. No: **1190-E-**



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**DB-0900.** This job includes broadly installation & commissioning of all the electrical equipment & switchgears, laying of underground cables of different sizes, earthing of alternators, motors, panels, sheds and buildings, internal and external illumination, area lighting, documentation, nomenclature embossing, Metallic Display board for SLD and safety signboard, testing, commissioning and handing over to the satisfaction of OIL. The contractor has to follow IS codes, IE rules, DGMS & OISD guidelines and standard practices for the execution of jobs as applicable in upstream oil sectors. The Contractor's broad scope of the electrical works includes

- I. Cabling: Supply of all cables and accessories, Laying of all the Electrical Cables.
- II. Complete earthing including supply of all Materials
- III. Illumination: Peripheral lighting, Shed Lighting, Building Lighting.
- IV. Electrical heat tracing for crude handling system
- V. Installation, Testing, Commissioning and Handing over. The contractor shall submit the following documents at the time of handing over:
  - a. Layout Diagram of the Installation.
  - b. Cable route and earthing layout.
  - c. Cable schedule.
  - d. IR values of alternator, motor and other electrical equipment
  - e. Earth resistance values.
  - f. Single Line Diagram of power schematic and bill of materials.

## 4.9 SAFETY:

- 4.9.1** Contractor will appoint a HSE coordinator for the project.
- 4.9.2** All necessary statutory approvals to be taken for the equipments and instruments.
- 4.9.3** All appliances, equipment and machinery that may be used in hazardous area will be of such type, standard and make as approved by DGMS.
- 4.9.4** All Contractor personnel will have to undergo Mines Vocational Training prior to deployment in the mine.
- 4.9.5** Contractor to adhere to OIL' HSE Management System.
- 4.9.6** Digitization of drawings, (P&I) diagrams to be done.





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- 4.9.7** All piping including Fire water lines should be above ground and should have single point support.
- 4.9.8** Rain water harvesting for static water tank storage to be considered.
- 4.9.9** Disaster Management Plan is already prepared by EPMC based on Risk Analysis. It should be taken care during detail engineering stage.
- 4.9.10** Spill Prevention Control & Counter Measure (SPCC) plan is to be made.
- 4.9.11** Standards for emissions from storage of volatile liquids may be considered.

## **4.10 SAFETY NORMS DURING CONSTRUCTION:**

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



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4. The Contractor shall provide a copy of the Safe Operating Procedure (SOP) to the person designated by the Mine owner who shall be supervising the Contractor's work.
5. Keep an up to date SOP and provide copy of changes to EIC / PIC
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.
7. While carrying out welding and cutting jobs, the contractor shall strictly enforce the guidelines as stated in OMR – 1984.
8. The oxy acetylene cutting sets will have to be fitted with flash back arrestors in the regulator side as well as nozzle side. The contractor shall engage only skilled, capable and competent personnel who are fully conversant with the job. Before starting the job, the contractor shall submit the list of competent personnel with valid certificates, who will carry out the job.
9. During transportation of line pipes by road, it shall be tied up securely with rope/ chain on trailers, to prevent toppling over of pipes on bumpy roads. The pipes should be unloaded carefully to prevent damage at the ends/ body of the pipes & pipe threads.
10. Contractor or his authorized representative shall conduct Tool Box meeting everyday where tools used are to be checked and briefing of jobs to be done . The record of Tool Box meeting to be kept in writing and copy of the meeting to be sent to EPMC / OIL.
11. Chain pulley block and other lifting equipment used for lifting shall be tested and should be of in good condition and certified by appropriate statutory authority
12. Supervising personal shall always be present at working spot during working hours.
13. Smoking is not permitted in the work place.
14. All torches, regulators, cylinders and other equipment should be of an approved design of appropriate authority and in good conditions.
15. The contractor shall arrange and fit spark arrestor to the exhaust

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of the Truck mounted reverse circulatory rotary drilling rig engine and welding machine, if required as per the instruction of representative of OIL.

16. Necessary sign boards/ warning signals etc should be used while working. The said sign boards/ warning signals shall have to be arranged by the contractor.
17. First aid box shall provided by the contractor and same has to be kept ready at work site for contractor's personnel while carrying out the job.
18. Under no circumstances LPG should be used for gas cutting purpose.
19. The contractor shall have to back fill the pit & have to clear away all the rubbish and surplus materials from the site on completion of work and shall have to leave the site clean and tidy.
20. The contractor shall ensure complete safety of the personnel engaged by him, and of all the equipment they will handle and must take full responsibility for their safety.
21. The contractor shall ensure the quality and reliability of all the tools, equipment and instruments they use.
22. The contractor shall provide suitable facility such as Drinking Water, Toilets, Lighting, and Canteen etc for their working personal.
23. The contractor's personnel have to take every possible care to keep the environment clean and free from pollution.
24. The contractor's personnel should understand the implication of the known hazards related to the work undertaken by them and the necessity of having an emergency plan ready to counter them.
25. While providing the services, the contractor personnel have to follow the procedures and systems taking all control measures in all the stages of works to avoid any untoward incidents/accidents.
26. The contractor shall have to report all sorts of near miss incidents and accidents to EPMC/OIL.
27. The contractor should deploy a competent person though out the job under whose constant supervision only the job will be carried out.

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28. Any compensation arising out of the job whether related to pollution matter, Safety or Health will be paid by the contractor only.
29. The contractor should deploy only MVT trained person.
30. The contractor has to keep a register of the persons employed by him. The contractor's supervisor shall take and maintain attendance of his men every day for the work, punctually.
31. The health check up of contractor personnel is to be done by the contractor in authorized Health centers as per OIL's requirement & proof of such test to be given to the OIL. They should be issued cards stating the name of the contractor and the work and its validity period, indicating status of MVT, IME & PME. 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.
32. Any compensation arising out of the accident cases to contractor employees will be borne by the contractor.
33. 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 PME and type of medical coverage given to the work persons. 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.
34. 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.
35. 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.
36. The contractor should prevent the frequent change of his contractual employees as far as practicable.



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37. The contractor should frame a mutually agreed bridging document between OIL & the contractor with roles and responsibilities clearly defined.
38. For any HSE matters not specified in the contract document, the contractor will abide the relevant and prevailing Acts/rules/regulations/ pertaining to Health, Safety and Environment.
39. For any clarification with regard to the above, the contractor should contact OIL.
40. In absence of a stipulated provision, sound industry practices shall guide the project execution work and operation & maintenance thereafter.

## 5.0 STATUTORY APPROVALS:

The contractor has to prepare engineering drawing of the plot plan, electrical single line diagram, schematic drawing of piping network of process, fire fighting piping network, potable water piping network, instrumentation network drawing, electrical earthing of tank farm and other drawings as deemed to be required for statutory approvals from DGMS and PCB. All the drawings (detailed engineering), documents have to be prepared by the contractor in a presentable manner and submit to EPMC for review and approval. The documents shall then be signed by Competent Authority of OIL. EPC shall submit the documents to DGMS and PCB as applicable, and obtain the permission before commissioning of the Plant. OIL shall only provide the statutory fees for obtaining the permission in the form of DD.

### Note:

Initial permission from DGMS & PCB (for consent to establish) for setting up the OCS is in the scope of EPMC. EPC shall inform statutory authorities and obtain approval thereof from DGMS and PCB (for consent to Operate) on completion of mechanical construction based on the revised drawings / as built drawings/ detailed engineering drawings etc. The format for statutory forms shall be provided by EPMC/OIL

## 6.0 GENERAL

All possible efforts have been made to establish a link between the Basic Engineering Design Package, Scope of work, Design basis



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and philosophy, Job specifications, Standard Specifications, Standards and Drawings so that the contractor has clear cut frame work of guidelines within which the detailed engineering would be performed by him. Despite this, it may still be required to apply judgment and reason to certain areas based on experience and sound engineering practice to achieve desired results.

- a) However, contractor must understand and undertake clearly that it is the sole responsibility of the contractor to complete all works in all respect leading to mechanical completion, commissioning and make the plant ready for commercial operation. Codes and standards included shall be used as guidance and considered as the minimum requirement. Due care shall be exercised such that the overall plant design provided ease of construction, installation, commissioning, start-up operation and maintenance and shall be safe to operate under all conditions.
- b) In case of any conflicting requirement of various chapters, which are part of this document following order of priority shall govern in general. However, in case of conflict, it shall be referred to EPMC for clarifications and the decision of EPMC/OIL shall be final and binding on the contractor without any cost and time implications.
  - . Basic Engineering Design Package
  - . Scope of work, Design basis and Job Specifications, Standards and Job Specific Drawings (Basic Engineering Package).
  - . Standard Specification
  - . National Codes.
  - . International Codes
- c) The requirement of any statutory body like Indian Boiler Regulation (IBR), Tariff Advisory Committee, Chief Controller of Explosive (CCE), Nagpur, India, Environmental Clearances, Factory Inspector, and Director General of Civil Aviation Authority (DGCA) etc. shall govern where these are more stringent than the requirement specified above.
- d) It is contractor's responsibility to make site visit and familiarize with site conditions with respect of the exact size, layout, location, access, transport problem to site, site storage and availability of construction water, power etc. for construction of the proposed project. No consideration on account of unfamiliarity with actual site condition shall be entertained after award of contract.
- e) Although the scope of work has been defined discipline wise, the contractor would be required to interact with other agencies working in the adjoining areas. It is essential to coordinate the interface directly or through EPMC as and when required to attain unhindered and smooth completion.





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- f) All attempts have been made to define the coordinates at the battery limits, however, minor changes, if any shall be accommodated without any cost/time implication to OIL. Special emphasis shall be made for flare and all gravity flow lines and “no pocket” lines.
- g) Contractor shall submit every month or mutually agreed intervals the quantum of work front released to site against the total estimated quantity of construction load discipline wise.
- h) The technical evaluation of the bid shall be limited to review of deviations and scope of work. Critical and long delivery items may however be reviewed to ensure pre-selection of vendors before award of work.
- i) Contractor to ensure that the cost of mandatory / recommended spares and special tools and tackles indicated in the package have been taken care in the lump sum prices offer.
- j) At the kick off meeting the Contractor shall furnish discipline wise detailed index of all drawings and documents, indicating schedule dates of submission, so that each individual discipline (EPMC) can plan their review work properly. Vendor’s additional standards if used during detail engineering shall be required to be vetted by EPMC before adopting.
- k) Specialist engineer shall be made available at Contractor’s cost during engineering, erection, commissioning and guarantee run for all major / critical equipment.
- l) Contractor shall submit updated discipline-wise drawing index fortnightly, so that the error in construction on previous revision could be avoided. Construction shall not be carried out with advance revision, not reviewed by Engineering Consultant.
- m) Contractor shall be required to get Code (1) on their 2nd submission. However, documents reviewed initially under Code (3) will be required to get Code (1) by 3rd submission.

## 7.0 OTHER RESPONSIBILITIES:

- 7.1** Contractor shall also ensure that equipment suppliers provide maintenance spares for at least first 2 (two) years of operation and supply a list of such spares for 10 (ten) years to OIL with classified prices and necessary specifications with details enabling OIL to procure directly in future.
- 7.2** The Contractor will make necessary documentation in prescribed formats for statutory approvals like DGMS approval of individual equipments, tank calibration certificate from Legal Metrological Department, Permission/approval form other statutory bodies. The Contractor must





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ensure that all the statutory approval/certificates are obtained before commissioning of the Plant is deemed to be completed.

- 7.3** The Contractors will prepare 3D Computer modelling with simulation as per guidelines of EPMC for the entire plant till it is put into operation. Contractor will also update the construction sequences in the said model during construction phase. Contractor needs to provide necessary software with assurance for maintenance support from the OEM/authorized dealer for minimum 5 years from the date of commissioning of the plant.
- 7.4** Contractor will depute competent persons to carry out detail engineering, procurement and construction activities for the project.
- 7.5** Contractor's personnel shall execute construction, erection and installation of the complete system as detailed above, to ensure soundness of erection and installation by providing adequate qualified experienced engineers. The number, duration and category of supervisory personnel to be deputed for this activity shall be mutually decided by Contractor and OIL/EPMC. EPMC will supervise Contractor's work on round the clock basis.

## **8.0 EXPERIENCE & QUALIFICATION OF THE PROJECT MANAGER/ TEAM MEMBERS**

### **8.1 PROJECT MANAGER:**

There shall be a professionally qualified (minimum B.E / B.Tech. or equivalent) Project Manager to lead the Project Team. The Project Manager must have experience of at least 10 years in the field of oil & gas processing facility planning, design, detail engineering, Project execution and overall Project Management. He must be well versed with all aspects of study as described in TOR, including but not limited to data acquisitions, installation in Oil & Gas industry and system designing, knowledge of different field proven technologies, comparison and evaluation thereof to identify appropriate and latest proven technology, detailed design, preparation of tender document specific to the job requirement, material selection, operations, result analysis and trouble shooting, co-ordination and supervision of all kind of activities related to the construction of complete system and commissioning. He shall have the ability and authority required for performance of the job. He shall liaise with OIL/EPMC Project Managers for the proper co-ordination and timely completion of the job on any matters pertaining to the job. As far as possible, the Project Manager assigned for the Project at the start shall execute the Project till completion.



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**The major responsibilities of the Project Manager and his team shall be:**

- A. Project Manager shall be engaged by Contractor on receipt of LOA.
- B. Project Manager will convene the Kick-off meeting.
- C. Liaison with OIL/EPMC.
- D. Carryout overall project management and administration of the project works covering planning, review, co-ordination and reporting.
- E. Project management and technical inputs to OIL/EPMC in deciding methodology of project execution and assist OIL in obtaining Government clearances.
- F. Responsible for all acts and omissions of the Contractor in regard to successful execution and commissioning of the project.
- G. Expediting works like placement / deployment of personnel at contract / sub vendor works.
- H. Overall management of the project.
- I. Co-ordination of activities relating to the project of various departments within Contractor' s office. The PM (Project Manager) will not use the project data for any purpose other than this project and will ensure complete secrecy of the data.
- J. Overall planning, scheduling, monitoring and controlling of overall project progress.
- K. Hold periodical review meetings with OIL/EPMC to monitor the progress identify constraints, slippages and suggest remedial measures.
- L. Preparation of reports as per clause 14.0 (Documentation & Submission of Reports).
- M. Necessary technical write-up and drawings shall also be submitted to OIL to enable them to prepare detailed Project Report.
- N. Prepare Procurement Status Report on monthly basis.
- O. Management of Engineering, Procurement and Construction Services.

## **9.0 DETAIL ENGINEERING TEAM MEMBERS:**

The Project Team must comprise of professionally qualified members each having minimum 5 (five) years experience in the respective domain/professional field like Project Management, Process Engineering, Mechanical Engineering, Piping Engineering, Construction/Civil



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Engineering, Electrical Engineering, Instrumentation Engineering, Petroleum Engineering, IT, Corrosion Engineering, Chemical Engineering, etc. Moreover, each of them must have work experience as a team member at least in one successfully completed surface facility project in Oil & Gas industry. One or more members of the team must have experience of carrying out detail *engineering* for any Crude oil/gas processing plant / Crude oil handling Tank farm.

## 10.0 CONSTRUCTION MANAGER:

There shall be a professionally qualified Construction Manager to lead the Construction Team at site. The Construction Manager must have experience of at least 8 years in the field of oil & gas processing facility planning, design, detail engineering, Project execution and overall site Project Management. He must be well versed with all aspects of study as described in TOR, including but not limited to data acquisitions, installation in Oil & Gas industry and system designing, knowledge of different field proven construction technologies, comparison and evaluation thereof to identify appropriate and latest proven technology, preparation of tender document specific to the job requirement, material selection, operations, result analysis and trouble shooting, co-ordination and supervision of all kind of activities related to the construction of complete system and commissioning. He shall have the ability and authority required for performance of the Contractor's job. He shall liaise with OIL/EPMC Project Managers for the proper co-ordination and timely completion of the job on any matters pertaining to the job. He shall *liaise* with their engineering office, various sub-Contractors, and government Govt. agencies pertaining to project. He shall ensure safe operation and execution of the work at site. Strictly ensure proper safety and quality work at site.

## 11.0 CONSTRUCTION TEAM MEMBERS:

EPC Contractor will depute following qualified persons at site, as minimum to overview day to day construction work. EPC Contractor will submit CVs / Bio Data of all the persons being deputed at site for EPMC/OIL approval. Only approved staff will be deputed at site.

**Construction Engineers:** They should be degree holder in their respective field and should have at least 2 years of experience in construction of Oil & Gas sector, Petrochemical plants, Tankages etc.



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**Construction Supervisors:** They should be diploma holder in their respective field and should have at least 2 years of experience in construction of Oil & Gas sector, Petrochemical plants, Tankages etc.

**Safety Officers:** They should have required certificate from reputed University and must have at least 2 years of experience in construction of Oil & Gas sector, Petrochemical plants, Tankages etc.

**QA/QC Engineers:** They should be degree holder in their respective field and must have minimum 5 years of experience in large construction industry.

**Skilled labours:** They should be minimum ITI / trade certificate holder in their respective field and should have minimum 5 years of experience.

## 12.0 CONSTRUCTION WORK AT SITE:

The construction supervision services would include the following, but not limited to:-

- 12.1** The Contractor will appoint a Safety Officer who must be conversant of all safety and statutory regulation during the period of construction.
- 12.2** Provide necessary competent supervisory staff in the related discipline at the construction site to review / supervise construction, erection of plant and equipment, civil and structural engineering works and others, approve the materials and workmanship of works.
- 12.3** Planning and monitoring of construction and erection works.
- 12.4** Site development works like site grading, construction of roads, culverts, storm water drains, etc.
- 12.5** Carry out civil / structural/ mechanical erection of equipment and machinery and piping.
- 12.6** Carry out erection and installation of all electrical and instruments as necessary.
- 12.7** Carry out final tests of plant after erection/installation of equipment and machinery, electrical, instruments and piping for turnkey package plants. OIL/EPMC shall witness the construction of the various equipment and machinery during various stages of construction and the various tests at the supplier's works. OIL/EPMC shall also witness the inspections/hydro-test etc. carried out during various phases of manufacturing of equipment, vessels etc in the supplier's work.
- 12.8** Organize site management meeting with the EPMC to ensure that work is carried out in safe and workman like manner in accordance with the



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specifications and to the programme. The Contractor will organize daily tool box meeting, fortnightly pit level safety meeting and bi-monthly safety meeting which will be monitor by EPMC. Contractor shall maintain that all these meetings are recorded.

**12.9** Organize monthly project review meeting with OIL/EPMC.

**12.10** OIL/EPMC shall monitor the entire execution of the project and shall give necessary guide lines to its requirement.

## **13.0 COMMISSIONING ACTIVITIES:**

After testing and mechanical completion of project, Contractor should ensure commissioning of the Barekuri OCS to the satisfaction of OIL/EPMC and also arrange training of personnel from OIL in coordination and conjunction with EPMC during the period of trial run for day to day running and trouble shooting of the OCS. Activities shall include but not limited to:

**13.1** Review of vendor' s P & IDs as necessary.

**13.2** Assisting EPMC in preparation of SOPs for equipment start-up, operation etc. Contractor will provide all inputs required for individual equipments, instrumentation & Control, process start-up, shutdown etc. to enable EPMC in preparing SOPs.

Contractor will provide detailed Bill of Material (BOMs) to EPMC, and assist EPMC in preparing Equipment Log book. Contractor shall also provide inputs and assist EPMC in preparation of Maintenance Manuals for equipment and plant. All technical data required shall be furnished by the Contractor to the EPMC.

**13.3** Review of plot plan, unit layouts, control room and panel layouts, instrument logics etc. as necessary.

**13.4** Review start up, shutdown and emergency provisions and procedures.

**13.5** Complete planning and scheduling of plant start up activities, wherever necessary.

**13.6** Contractor shall prepare pre-commissioning programme and to assign priorities during final stages of construction work.

**13.7** Check plant units for mechanical completion and pre-commissioning at site.

**13.8** Contractor shall ensure that all statutory approval for the installed instrument/facility has been obtained prior to commissioning of the Plant and submit all the documents and certificates to OIL/EPMC.

## **14.0 SITE CONSTRUCTION MANAGEMENT:**



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The Contractor will set up an office in Duliajan at its own cost for day-to-day co-ordination. Any infrastructural facility required for the same will be arranged by the Contractor.

## 15.0 PURCHASE MANAGEMENT:

- 15.1** Preparation of Enquiry documents based on Material Requisitions (MR) for all the items related to direct purchases, supply, installation, construction and commissioning of project.
- 15.2** Floating of enquiries to EPMC/OIL approved vendors.
- 15.3** Evaluate bids received to obtain technical clarifications from Sub-Contractors, arrange meetings and discussions with Sub-Contractors.
- 15.4** Conduct technical discussions with Sub-contractors
- 15.5** Submit Technical bid comparison to EPMC for approval.
- 15.6** Placement of Purchase order / Work order on successful vendor.
- 15.7** Un-priced PO/WO copy to be submitted to OIL/EPMC.
- 15.8** Co-ordination with Vendors for timely delivery of ordered items.

## 16.0 DOCUMENTATION & SUBMISSION OF REPORTS:

CONTRACTOR shall prepare and submit reports as follows and as mentioned in various clauses and annexure. The format of the report shall be discussed and mutually agreed between OIL & EPMC. **Reports shall be submitted to EPMC.** Reports should include the followings:

### **Project Progress Reports shall include –**

- 16.1 Daily Report:** Daily report should include day to day progress report of site work.
- 16.2 Weekly report:** Weekly reports will include the works completed at the end of the week and also the target jobs of the next week. It should also include material or equipment procurement status report, if any.
- 16.3 Monthly Report:** Monthly progress reports shall include the historical background of the Project; a brief description of actual versus planned progress; problems encountered and resolutions; and comments on the quality of work and Contractor's performance. The reports shall include graphs or charts showing physical progress of works. The reports shall also include colour photographs showing completed work and construction activities undertaken during the relevant reporting period.





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Monthly report should also indicate item wise detail status of various procurement and status of statutory approvals. Monthly report will contain a section devoted entirely to an assessment of the impact of accumulated delays, if any, in the execution of works and a projected date for completing the delayed jobs without affecting the Project schedule. The progress report shall highlight the specific delays, impact of accumulated delays, reason for such delays, action plans proposed to bring back to original schedule, major bottlenecks and holdups. The format of the progress report shall be discussed and mutually agreed by OIL/EPMC.

Each report shall contain a section devoted to reporting the status of Emergency Works and Work Orders issued by the Contractor, detailing the dates of notification and subsequent actions and the time and cost effects as assessed, where appropriate.

**16.4 Quarterly Report:** The CONTRACTOR shall prepare quarterly reports that summaries the content of the monthly reports, giving an overview of progress on the contract and the main issues that have arisen during the period. Each quarterly report shall contain an introduction presenting historical project background to set the current report in context. The report should contain an analysis of the Contractor's performance. Ten copies of these reports shall be submitted to EPMC within fourteen days after the end of each reporting period.

**16.5 Accident Reports:** A report of the circumstances of any significant accidents occurring during execution of the project shall be forwarded to EPMC.

## **17.0 OTHER DOCUMENTATION:**

CONTRACTOR shall keep record as mentioned below, but not limited to the followings:

**17.1** Maintain a set of drawings ("as-built" drawings) recording all details of the work as actually executed.

**17.2** Maintain at the project site orderly files for correspondence, reports of site meetings, product and material submissions, site instructions, information and drawings issued subsequent to the start of works contract, as well as Consultant's clarifications and interpretations of the contract documents, progress reports and other related documents.





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**17.3** Keep a diary or log book, recording daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures.

**17.4** Records of the Meetings.

## **18.0 PROJECT SCHEDULE:**

The CONTRACTOR shall work within the indicated time schedule as given under:

21 (twenty one) months for the completion of the entire project from the date of the award of the job to the Contractor.

3 (three) months for trial run & commissioning of the plant and awarding/ handing over the plant to O&M.

A detailed micro time schedule shall be prepared by the CONTRACTOR on the basis of the time schedule stipulated for execution of the project and shall be deemed to be a part of the Bid.

## **19.0 VARIOUS MILESTONES FOR EXECUTION:**

The time schedule for various activities to be completed by the CONTRACTOR during execution of this contract would be as under.

### **I. 1st Mile stone :**

- a. Issue and approval of “good for engineering” documents
- b. 30% PDS/PDMS model review
- c. Mobilization at site.

### **II. 2nd Mile stone:**

- a. Issue and approval of “good for construction” documents
- b. 60% PDS/PDMS model review
- c. 90% of completion of procurement
- d. 30% construction progress at site.

### **III. 3rd Mile stone:**

- a. 100% completion of procurement
- b. 70% completion of inspection & dispatch at site
- c. 50% construction progress at site

### **IV. 4th Mile stone:**



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- a. Certified Mechanical completion & acceptance
- b. Completion of pre-commissioning.
- c. Submission of Operation & Maintenance manual for individual equipment / systems to EPMC.

#### **V. 5th Mile stone:**

- a. Successful Performance Guarantee Test
- b. Submission of "As Built Documents"
- c. Submission of all required documents including all necessary certificates and statutory documents to complete the project.

## **20.0 TIME SCHEDULE:**

The project shall be executed and completed in all respect within 24 (Twenty four) months including PGTR from the date of issue of Letter of Award (L.O.A.) to EPC Contractor. The Contractor upon issue of L.O.A. shall submit to OIL an implementation schedule and be obliged for its strict adherence. Deviation from the quoted time schedule for successful completion of the project shall warrant levy of liquidated damage from OIL in accordance with the Liquidated Damage Clause of this document.

## **21.0 WARRANTY AND PLANT COMMISSIONING:**

The entire plant/system as well as each individual equipment, parts, components shall be new of recent make of the best quality and workmanship and shall have warranty for a period of twelve (12) calendar months of reliable and trouble free regular working under the specified parameter and working condition from the date of commissioning of the plant i.e. after 3 months of trial run. Defective goods / materials or parts notified by OIL during the warranty period shall be replaced immediately at no extra cost to OIL.

Commissioning of the plant will be deemed to be complete upon expiry of 3 (three) months of continuous trouble-free operation of the plant from the date of its being put into operation/date of completion of the project and all statutory approvals for the Plant and its equipment and facilities are obtained from Statutory Bodies. The trouble free operation will include operation of the plant, its all equipment (including operation of the stand-by facilities), components, instrument, process and other by-pass systems in auto and / or manual mode (as per design) establishing all control/monitoring and shut-off systems. The above will be witnessed and



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recorded by OIL/EPMC as well as the CONTRACTOR's competent personnel.

In the event of malfunctioning/defects of any equipment (including operation of the stand-by facilities), components, instrument, process and other by-pass systems during the first three months operation of the plant, the date of completion shall be counted from the day of rectification of such malfunctioning/defects etc. and the commissioning of the plant shall be considered upon completion of three months of trouble-free operation, as stated above, from such day of rectification which shall be at no extra cost to OIL. The warranty period of 12 months would commence after completion of three months of continuous trouble-free operation from the day of such rectification.

## **22.0 GUARANTEE FROM EPC CONTRACTOR:**

### **22.1 ASSURANCE OF OUTPUT QUALITY OF CRUDE & CLARIFIED EFFLUENT WATER WITH DESIGNED HANDLING CAPACITY:**

**22.2** On completion of Detail Engineering for the Technology that will be implemented in the OCS, **EPC shall provide OIL an assurance in writing of the desired performance level in respect of both quality and designed handling capacity based on the FEED and Basic Engineering developed by the EPMC.** The BS&W of the output crude shall not exceed 0.15% and oil content in produced water and effluent shall be less than 10 ppm with NIL sludge content and discharge of other effluents shall conform to State Pollution Control Board norms.

**22.3** Crude quality i.e. BS&W content and water quality i.e. oil content in clarified effluent water for this purpose shall be determined based on on-line monitoring, on-line report and testing of collected TMB samples at site laboratory. OIL of its own will periodically collect samples from the site and test it in OIL's laboratory at Duliajan. In case of any major difference in the readings of on-line system and on-site sample test readings, the results of the sample tested at OIL's own laboratory at Duliajan will be considered as final and binding.

## **23.0 SPECIAL CLAUSES:**



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**23.1.1 EPC Contractor must assure / provide the following along with the Bid**

**23.1.2** The present status of the ongoing projects as an Annexure showing the list of clients, scope of work from each job and cost of the completed and ongoing projects indicating time schedule for each project carried out to completion with the country wise break up as a part of the proposal.

**23.1.3** OIL will consider a Contractor as successful Contractor if any similar project was successfully implemented to the satisfaction of the owner and guaranteed performance was achieved, as above, after completion of the commissioning of the Plant and its facilities. Necessary documents to be provided along with the bid.

**23.1.4** Copies of document duly authorized defining the constitution and legal status of the Contractor, place of registration and principal place of business.

**23.1.5** The Contractor also **must provide a guarantee** that all systems provided will be adaptable, with minor modifications at the most if need be, to future technical developments in the next 10 (ten) years. Any such modifications that might be required must be commercially viable.

**23.1.6** The Contractor shall provide computer animated walkthrough 3D model displaying design visualization of entire plant layout with focus on critical processes which they conceive from Basic Engineering & FEED and submit to OIL in 2 sets of R/W Compact Discs.

**23.1.7** The Contractor shall ensure in getting all statutory approvals for the equipment and facilities are obtained from Statutory Bodies during the three months of trial run, without which the Plant will not be regarded as commissioned.

## **24.0 POINTS TO BE CONFIRMED BY EPC CONTRACTOR IN THE BID:**

**24.1.1** The entire Project must be completed in 24 months including PGTR from the date of LOA to CONTRACTOR. The Contractor must categorically confirm that any delay in initial phase will be made up in the subsequent phases of work so that the total time span does not exceed the stipulated period. "PLANT" means all the facilities; infrastructure and works that are stipulated for creation/setting up/construction/laying/completion/integration vide TERMS OF REFERENCE & TECHNICAL SPECIFICATIONS of this Bid document. Also, "PROJECT" means all such activities that the "IMPLEMENTATION SCHEDULE" shall stipulate to



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execute & complete in all respects for creation of the "PLANT" and putting the same into operation.

- 24.1.2** OIL may deploy a team of Engineers to the extent necessary during any phase of CONTRACTOR' s work for association in design, review and approval at CONTRACTOR' s head office. This shall, however, in no way relieve Contractor of its obligations. Cost of OIL' s personnel' s visits to Contractor office shall be to OIL' s account.
- 24.1.3** The Contractor will set up an Office-cum-base at Duliajan for day to day co-ordination during the entire project. The Contractor shall commence their job with a kick-off meeting at OIL, Duliajan. During the meeting, the detail work programme including Bar Chart & major milestones will be presented by Contractor and the same will be discussed & finalized. However, for detail engineering phase, the Contractor shall have an option to undertake the same either at Duliajan office as well as at their own central base. For this, the Contractor' s personnel along with the Project Manager (Team Coordinator) shall make a number of visits and stay at Duliajan at their cost as and when required during the detail engineering phase. In such case, the minimum number of visits and the duration of the each stay of the Contractor' s personnel shall be indicated. However, OIL reserves the right to direct the Contractor to make additional visits and extend the duration of the stay if felt necessary without incurring additional cost to OIL.
- 24.1.4** The Contractor must categorically confirm that they would be solely responsible for completing the job as per requirement of the contract even if some of the specialized jobs are done by hiring expertise. Contractor to categorically confirm that they are capable of completing all the jobs as specified in the tender. The action plan of the total contract job should be clearly indicated.
- 24.1.5** Contractor is required to strictly adhere to the time frame provided.
- 24.1.6** Contractor shall furnish a **written undertaking** in their bid expressing commitment to replace any of their personnel(s) at any point of time during the contractual period if, in the opinion of OIL, the said personnel(s) is / are not suitable to be member(s) of the Service team for sufficient reasons.

## 25.0 GUARANTEES:



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**25.1.1 GENERAL:** Contractor shall guarantee that the design and engineering works and services shall be as specified and technical documentation to be developed shall be in accordance with sound and established engineering practices, using International Standards and Indian Codes and Regulations, wherever applicable, for the purpose specified, free from defects and suitable for respective uses intended.

**25.1.2 ENGINEERING:** In the event of faulty engineering, procurement, construction i.e. error or omission the technical studies, work performed by EPC Contractor; in respect of work described herein, for which Contractor will be solely responsible, Contractor must agree to provide services to furnish corrective technical studies & engineering, and replace plant / machineries / equipment as may be required without any additional cost to OIL.

**25.1.3 MECHANICAL:** EPC Contractor will obtain required guarantees / warranties from EQUIPMENT and MATERIAL VENDORS and erection Contractors against defects in materials and workmanship.

## 26.0 DRAWINGS / DOCUMENTS:

- I. The EPC Contractor shall prepare all engineering documentation & drawings and submit three (3) sets each to OIL & EPMC of the scrutiny and approval before execution. The EPC Contractor further shall submit to OIL Six (6) sets of finally approved documents and laminated drawings along with two (2) set of tracings and two (2) set of soft copies stored in R/W Compact Disks (CD).
- II. In particular, but not limited to, Contractor will provide the documents & drawings which shall include (including those mentioned in the entire tender)-
  - Plant Layout
  - Drawing showing a bird' s eye view of the plant layout and the surrounding features in a radius of 500 m around the plant boundary
  - Updated Process Flow Diagram(s)
  - Mechanical Flow sheet(s)
  - Updated Piping & Instrumentation Diagram(s) (P&IDs)
  - Detail Engg. Documentation including data sheets, type & specifications of equipment & facilities
  - G.A. Drawings
  - Civil foundation, Building detail drawings
  - Structural & Fabrication Drawings





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- Construction & Working drawings
- Electrical single-line Diagram
- Earth Resistivity values
- Plant Operating and Maintenance Manual
- Hazardous Area classification drawings
- As-built Drawings
- Fire Fighting Network
- Electrical Cable route Layout
- Drainage system Layout
- Project Dossier

### 27.0 INTEGRATION & CO-ORDINATED EXECUTION:

The scope of work of Contractor includes coordinated execution of the entire project without any time overrun as per the time frame given in the ensuing Clause 18.00 through integration of all facilities, components and equipment. The Scope of Work also covers, amongst others, close liaison with OIL and such aspects as may be necessary for maintaining technical and procedural integrity for ensuring execution of the entire project in a time-framed, systematic, secure, safe and environment-friendly manner.

### **MINIMUM FACILITIES ENVISAGED**

The tentative minimum facilities envisaged for fulfillment of objective behind creation of the Barekuri OCS are shown below. This section is furnished for the EPC to visualize the system process and tentative job requirement. The EPC may suggest better facility/technology, based on their study, to make the system foolproof in all respect which shall be approved and duly vetted by EPMC/OIL. **For more details refer FEED documents attached with Tender document. In case of conflict in design data and equipment details, data provided in various design basis documents in the FEED document will prevail in the following order of priority.**

- Basic Engineering Design Package
- Scope of work, Design basis and Job Specifications, Standards and Job Specific Drawings (Basic Engineering Package).
- Standard Specification
- National Codes.
- International Codes

However, all documents and reports shall be submitted as mentioned in this section.





## **1.0 BASIC PROCESS PHILOSOPHY:**

The Oil Collecting Station (OCS) is envisaged with a facility for processing 3600 KLPD of Well fluid of well fluid and separation of the Oil, Gas and water streams. The OCS shall have a storage capacity of 5000 kls for Dry crude and 3000 kls capacity to handle produced water and effluent before disposal. Additionally crude oil test tank of 160 kls capacity and crude oil skimming tank of 100 kls capacity shall also be provided. The produced crude oil shall be dispatched to Duliajan at a pipeline distance of approximate 25-30 kms through crude oil dispatch pumps working at a pressure of 70 kg/cm<sup>2</sup>.

Produced water from inlet separators, dehydrators untreated produced water storage tank and from effluent water system is treated in the produced water treatment system to meet the oil content of less than 10 ppm in produced water. Oil spills and rain water from process system area are collected in bund wall and routed to effluent water collection pit. Effluent water pit is then routed to produced water system by means of effluent water transfer pumps. Rain/ storm water from other than main process system are disposed off through trenches.

The Plant shall be integrated, self-containing, and self-sufficient and will ensure zero discharge of pollutants to the environment. The Crude Dehydration process shall ensure quality stipulation of 0.15% (w/w) or less BS&W content in the treated crude and the Produced Water Treatment system shall ensure oil content of less than 10 ppm with NIL sludge content in the treated water. The process will be modular in structure both in terms of layout and operation. Each module will be self-containing and all the modules have to be integrated so as to make the overall process a self-sufficient one. Instrumentation & Control system of individual modules shall be integrated for control room management of the plant operation in a safe manner and maintain the Desired Performance Level of the Plant. Desired Performance Level of the Plant shall mean uninterrupted trouble-free operation of the entire Plant at designed plant capacity (including the operational availability of standby units, measuring devices, safety and security system, all facilities and other infrastructures) with BS&W content of 0.15% or less in the treated crude as well as oil content of less than 10 ppm with NIL sludge content in the output water all throughout the plant operation.

An integrated safety, fire-protection, fire-fighting facility and security system will be provided for the entire plant in accordance with relevant and latest standards of upstream oil industry, Oil Mines Regulation, OISD norms & other prevailing laws, by laws etc. The EPMC has designed the plant on the basis of above philosophy and the minimum facilities as indicated in this document.



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Overhead water storage facility has to be created to meet water requirement for day-to-day process, utility/service and fill-up / charging / make-up water for hydrant circuit.

Process Design Basis **1190-P-DB-0100** shall be referred for the process and utility systems required for OCS as a minimum.

Standby static water storage facility has to be created as in accordance with OISD norms for catering to bulk fire fighting water requirement during emergencies. The static water reservoir capacity should also provide the storage for storm water. The effluent water after treatment must meet requisite specification for dispatch to OIL's nearby installation/disposal wells.

The plant premises & boundary will be covered by green plantation and green belt respectively, which will be developed in line with globally accepted norms for environmental protection. A peripheral road will be constructed by OIL outside the boundary wall for security patrolling of the Plant.

The Oil Collecting Station will be interconnected with the various piping network from different fields. The Necessary land maps for the site are available at OIL's office which EPC Contractor is free to access as and when required.

## **2.0      THE FOLLOWING ARE THE MINIMUM FACILITIES ENVISAGED FOR THE OCS**

### **1. DEHYDRATOR:**

Dual polarity type Electrostatic Emulsion Treater shall be used for dehydration of wet crude. Crude Dehydration Facility shall have skid-mounted Horizontal Electrostatic Treaters of economic size complete with all accessories, instrumentation & control system as well as safety implements and suitably designed to dehydrate the crude broadly of above specifications to an output BS&W level of 0.15% w/w) or less

### **2. INDIRECT BATH HEATERS :**

Adequate numbers of indirect heaters required for the process of Heating Wet Crude as per design data.

### **3. CRUDE OIL STORAGE TANKS:**

Basic Engineering, & sizing of the tanks have been carried out by



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EPMC. EPC shall carry out Detailed Engineering for Tank Design. Tanks must have sacrificial anode type cathodic protection system for prevention of external corrosion. Tanks shall have proper internal coating for thermal resistance and corrosion prevention. Tanks will have all necessary accessories including breather valves, side entry mixers, radar gauging system, heating coils, etc. Painting of tanks should be olive green with camouflage pattern. There should be arrangement for prevention of deposition of sludge and of removing deposited sludge in crude oil tanks.

#### 4. **EFFLUENT TREATMENT PLANT (ETP):**

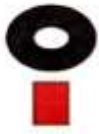
Produced water from inlet separators, dehydrators from effluent water system and from untrated produced water storage tank is treated in the produced water treatmntent system to meet the oil content of leass than 10 ppm in produced water.

Oil Content : less than 10 ppm  
Sludge Content : NIL

Online monitoring device will be installed to monitor oil ppm after each stage of ETP process and also Oil-in-Water monitor in the outlet clarified water disposal line with mass flow meter. There shall be auto-recycling facility to re-process the produced water to bring down oil ppm to desired level. Oil spills and rain water from process system area are collected in bund wall and routed to effluent water collection pit. Effluent water from pit is then routed to produced water treatment system by means of effluent water transfer pump. Rain / storm water from other than main process system are disposed off through trenches.

#### 5. **FIRE FIGHTING & PROTECTION FACILITIES:**

- a. Entire hazardous areas of the OCS shall be covered with Fire Water ring main pressurized at 7 Kg/cm<sup>2</sup> residual pressure with the provision of Diesel pump(s) conforming to BIS standard. Capacity of diesel pump shall be of 410 m<sup>3</sup>/hr. each. All the pumps shall be in auto mode. The ring main shall have water cum foam monitors & hydrants at a regular spacing as per the relevant norms with necessary hose boxes along with type 'B' synthetic hoses and nozzles. The entire fire water ring main shall be maintained at 7 Kg/cm<sup>2</sup> pressure at a hydraulically remotest point with the help of automatic electrical motor driven jockey pump. The auto system shall have a hydro-pneumatic tank and a compressor along with the jockey pump.
- b. The jockey pump shall start automatically when the pressure in fire water pump is below 7 kg/cm<sup>2</sup>g and stop once the



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pressure is achieved. Pressure switches are to be provided in the fire water ring main for automatic operation of the jockey pump.

- c. Moreover, for jockey pump duty type of the motor shall be selected based on the cycle of operation of the jockey pump. If felt, a timer can be introduced in the control circuit to keep the motor running for a predetermined time after each automatic start to avoid too frequent motor operation.
- d. For tank cooling purpose, multi-feeder type medium velocity water spray/drenching system with triple ring arrangement shall be provided for each crude oil tanks.
- e. Foam system for tank protection shall be of semi-automatic type with centralized foam storage facilities (having UL listed fluoro protein foam with foam filling pump) with online foam induction arrangement through suitable foam inductor/proportioner. Provision for alternate foam pouring arrangement through fire tender in case of failure of the semi automatic system shall be made. All the foam equipment (foam pump, maker, inductor, proportioner etc.), piping, fitting, foam tanks etc. shall be of stainless steel of suitable grade.
- f. Entire fire hazard area shall be covered with fire detection and alarm system addressable at control room with manual call points at some strategic areas.
- g. Automatic fire detection and alarm system shall be provided for control room.
- h. Two nos. mobile 1000 GPM monitor shall be provided in the installation and provision to operate these monitors shall be made at some strategic point in the fire water ring main near crude oil tank area.
- i. Since the water requirement for foam system, water spray system and hydrant system shall be tapped from the common fire water ring main, hence for better fire water protection water flow rate shall be calculated as per OISD-189.
- j. There shall be "Above Ground Fire Water Storage Tank" of two (2) hours capacity of maximum fire water pumping requirement.
- k. Apart from above entire OCS shall be equipped with first aid firefighting equipment as per OISD - 189.
- l. All the above fire fighting systems/facilities shall conform to TAC, NFPA, OMR, BIS, and OISD Std. 117 & 189 whichever is stringent.

#### **6. CAPTIVE POWER PLANT:**



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Captive Power Plant (CPP) shall cater to the Power for entire loads of the installation, where suitably designed Low voltage Gas Engine Driven (GED) Genset shall be installed. These GED Gensets shall be of similar capacity with the provision of synchronization facility to cater the entire power requirement of the installation. Two Generator sets of 2 MW capacity (2 x 100%, one is running and other is standby) shall be provided to cater the total power load, total capacity of power generation is 4 MW. Provision for installing one more additional 2 MW Gen set in future to be procured by Oil ( 1 MW for future ESPs for artificial lifting and 1 MW for future loads). Required facilities / provisions for connecting the Gen set to the internal power grid shall be the scope of EPC. During start up, fuel gas from existing trunk line is used as start up fuel gas supply. . The Generating Set should have acoustic enclosure to reduce sound pollution to the optimum level (i.e. to meet CPCB guideline). Around five nos. parameters of Gen Set (e.g. RPM, Voltage, Frequency, Water temp., Lub oil pressure etc.) will be monitored from central control room. Separate sound proof AC control room with panel board along with a service bay for maintenance work will be required at the power plant. A suitable sized over head crane with palm top facility should be provided at captive power plant for maintenance work. Provision should be kept for future addition of new unit. Control room panel board will have battery powered back up support for operation.

#### **7. CRUDE OIL DESPATCH PUMP:**

Suitable sized Natural Gas engine driven reciprocating pumps units should be installed in one row to transfer produced crude oil from the OCS. As the crude oil will be dispatched to a distance of around 25-30 km, so, if required, DGMS approved electrical motor driven Centrifugal Charge Pump should be provided against each pumping unit with one additional unit as standby. The pump units must be isolated by the sound barrier to arrest any sound pollution to the optimum level (i.e. 75 db at one meter distance from acoustic enclosure). The pump units should be identical and of same Make and Capacity for better and ease of maintenance. All pump units are separated with prime mover by a fire wall.

A suitable sized over head crane with palm top facility should be provided at pump house for maintenance of both prime movers and pumps. All necessary parameter of pump and engine (e.g. RPM , Water Temp., Lub oil pressure, etc of prime mover and dispatch rate, suction pressure, Delivery pressure, RPM etc of pump etc.) will be monitored at central control room. DGMS approved PLC control panel should be installed as a safety feature to the pump.

Provision should be kept in the pump shed for future addition of new



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units. The natural gas available at site may contain crude oil for which suitable filter units should be installed.

**8. WATER SUPPLY SYSTEM :**

- a) Source of water: Ground water (Deep Tube Well / Shallow Tube Well)
- b) Requirements of water: b1) Potable water (as per BIS 10500)  
b2) Industrial water

Necessary arrangements are to be done for treatment of raw water including iron removal filters which is available at site to use it as potable and industrial purpose.

**9. DATA COMMUNICATION AND SECURITY ACCESS CONTROL FACILITY:**

**DATA COMMUNICATION / ERP CONNECTIVITY:**

For data communication / ERP connectivity the facility should include a communication tower of 33m height along with nearby free ground area radius of approx.12 m. The communication tower will be common for IT & voice communication requirements.

The data connectivity from BAREKURI OCS to OIL's Duliajan office (*backbone*) will be extended by OIL through wireless network. The equipment required for such communication as indicated below should be procured. The outdoor cabling between the equipment building block and the main office (*EPC Contractor should do the cabling within the BAREKURI OCS*) should be done with SM OFC for necessary data connectivity. The indoor data cabling for the BAREKURI OCS main office should be done with standard CAT6 cable through Cisco switch as per the number of workstation so required. The rough schematic for data connectivity should be as follows:

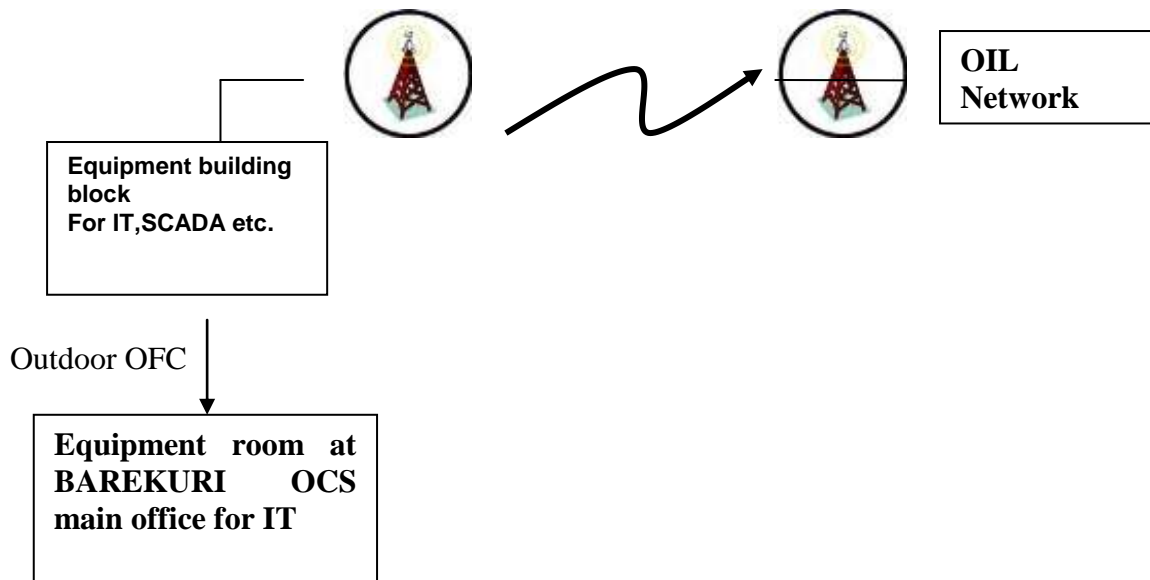




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**Radio Network**



**Required material specifications for Data connectivity:**

**Radio equipment:**

- 1) Radio Tower and accessories, Area=12m radius from centre= **1** set
- 2) CAT-6 STP cable (D-Link) = **One box** (300m approx.)
- 3) Surge Protector with Male to Male connector (Telemetric Coax protector CA90 )= **2** Nos.
- 4) Lightening arrestor, Earthing cable, Earth pit, Aviation light and other accessories for proper earthing.

**OTHER ACCESSORIES**

- 1) Router (Cisco)=**1**
- 2) Cisco 2960 workgroup switch=**2 nos – 24 port**
- 3) 3KVA UPS =**1**
- 4) Power protector (Model No=MA15/D/2/SI; Ratings=240V/50Hz/15A)=**2**
- 5) Patch cord and UTP cable (Cat 6) = **As per requirement.**

**(a) Intrusion detection / Security control system:**

The EPC should study the complete requirement of the latest Security Control System for the BAREKURI OCS. The system should have surveillance camera's (*AXIS 215 PTZ Network Camera with its unique pan/tilt/zoom capabilities and tamper-resistant design or advanced*) placed along the periphery of the campus and all entrance points which should be monitored at security gate and control room and recorded





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centrally or at a remote location through IP network with a facility to take backup in standard video format. EPC should also do the cabling of any such setup within the BAREKURI OCS.

**(b) Computers:**

The scope of supply will include 6 desktop computers for the plant engineers and above 6 on line monitors for the process flow control. One extra Laptop computer with one LCD Projector should also be provided for the conference room. One dedicated laptop computer of latest hardware & software configuration should be provided where all the licensed instrumentation and control PLC/DCS/TFMS software should be loaded along with the latest backups of all the application programmes.

**(c) Telephone:**

“Radio Communication backbone link in licence free 5.8 GHz band and media gateways along with necessary infrastructure like tower, civil works etc is to be provided. The installed system should be compatible with the systems already installed in Duliajan. Provision of telephones from other service providers is to be made for alternative communication for control room and IM’s room. Intrinsically safe wireless walkie-talkie sets with licence will be provided by the EPC Contractor for interplant communication. Intrinsically safe (DGMS approved) telephones, call booths, will be provided for installation in hazardous area within the BAREKURI OCS complex.” The detail job to be considered in EPC scope is listed below:

Sl. No.	Description	Qty	Remark
1	Extension of Central Telephone Exchange at Duliajan to BAREKURI OCS with following facilities: (i) Avaya make G450 media gateway with licence expandable to 48 stations with accessories (ii) 24 analog extensions with CLI VoIP ready with all necessary cards (iv) Limited survivability in case of media failure (v) Provision to interface with two IP media (vi) Online UPS with 12 hour back	01 SET	To provide OIL communication to BAREKURI OCS. For compatibility, the new equipment are required to be of “Avaya” make with required licence to register with the central Server (S-8730 CM 5) at Duliajan supplied and installed by M/s AGC Networks Ltd.



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	up (vii) Required MDF (viii) Installation & Commissioning of the complete system		
2	Radio Communication Network: (i) Cambium make Subscriber Module (Model No. PMP430SM) at 5.8 GHz licence free band with all accessories to register with radio base station (Model No. PMP58430) installed at Pump Station Tower. (ii) Communication tower of required height for LOS with base station installed at Pump Station Tower with all Civil works (iii) Installation & Commissioning of the above	01 SET	To establish OIL Radio Communication to BAREKURI OCS. The new equipment are required to be of "Cambium" make to be compatible with the already installed system.
3	Intrinsically safe Portable VHF Transceivers	5 Nos	The transceivers shall be intrinsically safe and DGMS approved. The provision of frequency allocation shall be with the scope of the vendor.
4	Telephone cable wiring including all accessories. Wiring for all telephone connections inside building and building to building/locations	01 SET	Wiring for all telephone connections inside building and building to building/locations. (i) Two pairs of cable (one Spare) shall be laid to each telephone point from MDF. Cables within building shall be concealed and PVC unarmoured 0.5 mm dia. For each telephone point there shall be one termination board (MK brand or equivalent) with two RJ connectors for termination of both pairs of cables. (ii) Telephone wiring for building to building/locations shall be underground using jelly filled armoured cable with minimum 0.5mm dia copper conductor. The cables shall be terminated in Krone



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			disconnection modules mounted inside Krone outdoor boxes.
5	Telephone Instruments – Non FLP	10 Nos	Telephone instruments shall have CLI facility.
6	Telephone facility by other service provider like BSNL	02 Nos	PSTN/WLL communication facility shall be provided as alternative communication and communicating with external agencies.
7	The BAREKURI OCS control room should have space Communication Room	01 No.	Appropriate air conditioned room to house all the communication system.

**SPECIAL NOTE:**

**The detailed scheme prepared and make of instruments suggested by EPC for above data communication, ERP connectivity, security access facility shall be vetted by EPMC and approved by OIL.**

**10. CRUDE OIL CIRCULATION PUMPS:**

Crude oil circulation pumps shall draw the crude oil from the untreated crude oil storage tank and shall pump the same through the dehydration units and upto the treated crude oil storage tank or recycle (of variable throughput), if required. Utility redundancy of 50% of the operating capacity shall be ensured for the pumps. The pump shall be complete with FLP motor (of CMRI certification & DGMS approval for use in hazardous area).

**11.0 INSTRUMENTATION, ELECTRICAL, PIPING, CIVIL WORKS:**

Complete Instrumentation, Piping, Electrical, Civil works for the Project as per various Control Philosophies, Design Data etc. provided with this Tender.

**12.0 PROCUREMENT:**

Procurement of all the items required for completion of the Project. A comprehensive list of items is provided with this Tender.

**\*\*End of PART-3 SECTION-II\*\***



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**PART – 3 Section-III**  
**SPECIAL**  
**CONDITIONS OF CONTRACT**



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Special Conditions of the Contract shall be read / interpreted in conjunction with the General Conditions of the Contract, however if any part is observed to be repugnant or at variance with the provisions of the General Conditions of the Contract, to the extent it cannot be reconciled, the Special Conditions of the Contract shall override the general conditions for that part.

## 1.0 DEFINITION OF SPECIAL TERMS

In this **CONTRACT** the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires.

- a. **"CONTRACT DOCUMENTS"** means collectively the Tender Document with Designs, Drawings, Specification, Condition, Schedule of Quantities and Rates, Letter of Acceptance and agreed variations if any, and such other documents constituting the tender and acceptance thereof.
- b. The **"SPECIFICATION"** means all directions, the various technical specifications, provisions attached and referred to in the Tender Document, which pertain to the method In this **CONTRACT** the following words and expressions shall have the meanings hereby assigned to them, except where the context otherwise requires.
- c. **"THE COMPANY/OWNER/OIL"** means Oil India Limited, a Government of India Undertaking having its registered office at Duliajan, Assam.
- d. The **"PROJECT/ENGINEER IN-CHARGE (PIC/EIC)"** means the person designated from time to time for supervision and liaison with the CONTRACTOR by OIL and includes those who are expressly authorised to perform on his behalf for operation of this CONTRACT.
- e. **"Site Engineer"** means EPMC`s personnel deputed at site for supervising of the EPC works.
- f. **"EPMC"** or **"EPMC"** means M/s. EPMC Engineering and Services Private Limited, Coimbatore who are engaged as Engineering and Project Management Consultant (EPMC) by OIL for this Contract.
- g. The **"WORK"** mean and include all items to be supplied, things to be done and services to be provided and activities to be performed by the CONTRACTOR, pursuant to and in accordance with the CONTRACT, or part thereof, as the case may be, and shall include all extra, additional, altered or substituted items/things/activities/services as required for purpose of the CONTRACT.



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- h. The **"PERMANENT WORK"** means work, which will be incorporated in, and form a part of the WORK to be handed over to the OWNER by the CONTRACTOR on successful completion of the CONTRACT.
- i. **"TEMPORARY WORK"** means work of temporary nature required in or execution, completion or maintenance of WORK.
- j. **"CONSTRUCTION EQUIPMENT"** means all appliances/equipment and things that are used and manner of performing the works, to the quantities and qualities of the works and the materials to be supplied under the CONTRACT for the WORKS, as may be amplified or modified by the OIL during the performance of CONTRACT in order to provide the unforeseen conditions or in the best interests of the WORKS. It shall also include the latest edition of relevant Standard Specifications including all addenda/corrigenda published before entering into CONTRACT.
- k. The **"DRAWINGS"** means maps plans and tracings or prints or sketches thereof with any modifications approved in writing by the EPMC and such other drawing as may, from time to time, be furnished to or approved in writing by the EPMC in connection with execution of the CONTRACT.
- l. The **"TENDER"** means the proposal along with supporting documents submitted by the CONTRACTOR for consideration by the OWNER.
- m. **"MOBILISATION"** means establishment of sufficiently adequate infrastructure by the CONTRACTOR at "SITE" comprising of construction equipments, aids, tools, tackles including setting of site offices with facilities such as power, water, communication etc. establishing manpower organization comprising of Resident Engineers, Supervising personnel and an adequate strength of skilled, semi - skilled and un - skilled workers, who with the so established infrastructure shall be in a position to commence execution of work at site(s), in accordance with the Implementation Schedule of completion of WORK. "MOBILISATION" shall be considered to have been achieved, if the CONTRACTOR has been able to establish infrastructure as per Implementation Schedule and to the satisfaction of ENGINEER-IN-CHARGE.
- n. The **"PERIOD OF LIABILITY/PERFORMANCE LIABILITY PERIOD"** in relation to a WORK means the specified period of 1 (One) year from the date of COMPLETION CERTIFICATE up to the date of issue of FINAL CERTIFICATE during which the CONTRACTOR stands responsible for rectifying all defects that may appear in the WORKS executed by the CONTRACTOR in pursuance of the CONTRACT and includes warranties against Manufacturing/Fabrication/Construction defects covering all



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materials plants, equipment, components supplied by the CONTRACTOR and WORKS.

- o. **"SITE"** means the lands and other places on, under, in or through which the PERMANENT WORKS are to be carried out and any other lands or places provided by the OWNER for the purpose of the CONTRACT.
- p. **"NOTICE IN WRITING OR WRITTEN NOTICE"** means a notice in written typed or printed characters sent (unless delivered personally or otherwise proved to have been received by the addressee) by registered post to the latest known private or business address or registered office of the address and shall deemed to have been delivered.
- q. **"DAY"** means a day of 24 hours from midnight to next consecutive midnight, irrespective of the number of hours worked in that day.
- r. **"WORKING DAY"** means any DAY, which is not declared to be holiday or rest day by the OWNER.
- s. **"WEEK"** means a period of any consecutive seven days.
- t. The **"CONTRACT PRICE /VALUE OF CONTRACT"** means the sum accepted or the sum calculated in accordance with the prices accepted in the BID and/or the CONTRACT rates as payable to the CONTRACTOR for the full and proper performance of their contractual obligations.
- u. **"PLANT"** means all the facilities; infrastructure and works that are stipulated for creation/setting up/construction/laying/ completion/integration vide TECHNICAL- scope of Work (Section-II) of this tender document.
- v. **"PROJECT"** means all such activities that the "IMPLEMENTATION SCHEDULE" shall stipulate to execute & complete in all respects for creation of the "PLANT" and putting the same into operation.
- w. **"IMPLEMENTATION SCHEDULE"** shall mean a plan in the form of, inter alia, a bar chart of all the key activities of the "PROJECT", mutually agreed upon by the CONTRACTOR & the COMPANY, for systematic execution of the "PROJECT" in a safe, secure & environment-friendly manner as per the time frame quoted by the successful bidder and subsequently agreed upon by the CONTRACTOR & the COMPANY.
- x. **"COMPLETION OF THE PROJECT"** shall mean putting the entire "PLANT" into operation. Accordingly "DATE OF COMPLETION OF THE PROJECT", subject to sub-clause (y) below, shall mean the day the entire plant is put into operation after 3 months of trial run.





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- y. **“COMMISSIONING OF THE PROJECT / THE PLANT”** shall mean “COMPLETION OF THE PROJECT” plus successful Performance Guarantee Test Run of the plant with **‘DESIRED PERFORMANCE LEVEL’** from the day of its being put into operation / **“DATE OF COMPLETION OF THE PROJECT”**. In the event of malfunctioning/defects during the Performance Guarantee Test Run of the plant with its **“DESIRED PERFORMANCE LEVEL”**, the **“DATE OF COMPLETION OF THE PROJECT”** shall mean the day of rectification of such malfunctioning/defects etc. and **“COMMISSIONING OF THE PLANT”** shall mean successful Performance Guarantee Test Run with its **“DESIRED PERFORMANCE LEVEL”** post the day of rectification of such malfunctioning / defects.
- z. **“DESIRED PERFORMANCE LEVEL”** of the PLANT means successful Performance Guarantee Test Run.
- z1. In the absence of any Specifications covering any material, design or work(s) the same shall be performed/supplied/executed in accordance with standard Engineering Practice as per the instructions/directions of the Project/Engineer-in-Charge, which will be binding on the Contractor.

### 2.0 STATUTORY NOTIFICATIONS /PERMISSIONS /APPROVALS/ CLEARANCES / CERTIFICATIONS:

- a. The Contractor shall be responsible for obtaining Central Institute of Mining & Fuel Research (CIMFR's) / ERTL / any DGMS approved laboratory certification of all electrical and instrumentation items for use in hazardous areas/zones and approval of the same from Directorate General of Mines Safety (DGMS). The Contractor shall also be responsible for obtaining such necessary certification and approval of all other items/equipment as may be required vide provisions of prevailing acts/laws/bye-laws/rules/regulations or otherwise, in absence of such provisions; to cater to sound industry norms.
- b. The Company shall issue all necessary letters & guarantees. If required, the Company's representative shall accompany/assist the Contractor for facilitating the process. The ultimate responsibility of completing the process and obtaining the permissions/approvals/clearances in time, subject to fulfillment of prevailing laws, shall however rest with the Contractor.
- c. Any delay in obtaining statutory permission / approval / clearances / certification or any social/socio-political factor shall not form a basis for extension in completion period. The Company shall not be responsible for any hindrance in the day-to-day work for such delay.



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- d. Inspection and acceptance of the equipment/facility/work or a part thereof shall not relieve the Contractor from any of his responsibilities under the Contract.
- e. The approval from any authority required as per statutory rules and regulations of Central/State Government shall be the Contractor's responsibility unless otherwise specified in the Bidding document. The application on behalf of OIL for submission to relevant authorities along with copies of required certificate complete in all respects shall be prepared and submitted by the Contractor well ahead of time so that the actual construction/commissioning of the work is not delayed for want of the approval/inspection by concerned authorities. The inspection of the works by the authorities shall be arranged by the Contractor and necessary coordination and liaison work in this respect shall be the responsibility of the Contractor. Reimbursement of Statutory fees paid by Contractor (as per advance approval of EPMC / OIL) may be provided for, subject to submission of receipt.
- f. Any change/addition required to be made to meet the requirements of the statutory authorities shall be carried out by the Contractor within the quoted price. The inspection and acceptance of the work by statutory authorities shall however, not absolve the Contractor from any of his responsibilities under this Contract.

### 3.0 LABOUR LICENSE

The Contractor, before starting the work shall obtain a license from concerned authorities under the Contract Labour (Abolition and Regulation) Act 1970, and furnish a copy of the same to the Company. Contractor shall also be responsible for its validity and for complying with provisions of all applicable Act, Rules and Regulation in force at the locations of the site.

### 4.0 ELECTRICAL CONTRACTOR'S LICENSE

**4.1** The Contractor or its nominated agency, as the case may be, shall have a valid electrical contractor's license for working in the State in which the works site is located. The Contractor shall furnish a copy of the same to Engineer-in-charge before commencement of any electrical work or work pertaining to Electrical System.

**4.2** No electrical work or work pertaining to electrical system(s) shall be permitted to be executed without a valid Electrical Contractor's License



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being produced by the Contractor or its nominated agency, as the case may be, intending to execute the work.

## **5.0 LUMP SUM TURNKEY (LSTK) CONTRACT**

The entire work as per Scope of Work covered under Technical-Scope of Work (Section-II) of this tender document shall be treated as "LUMP SUM TURNKEY CONTRACT" for the specified project.

## **6.0 MEASUREMENT OF WORKS**

This being a Lumpsum Contract, mode of measurement of work appearing anywhere in the GCC or elsewhere in the Bidding Document shall not be applicable. Progress payment will be governed by Approved Bill of Materials and / or Billing schedule / Implementation Schedule for supplies, works and services.

## **7.0 RESPONSIBILITY OF THE CONTRACTOR**

- a.** The contractor shall be responsible for all that are covered in Technical-Scope of Work (Section-II), Schedule of Rates (Section IV), General Conditions of Contract (Section I), Special Conditions of Contract (Section III) and elsewhere expressed in this tender document and subsequently, stipulations of the contract agreement to be entered into between the Company & the Contractor.
- b.** The Contractor shall be responsible to provide within the Scope of Work all facilities necessary for performance of the Work including (but not limited to) water (including water for hydrostatic testing, if any), power, transportation, handling and construction equipment, vehicles, vessels and any additional land at or about the Site required for the Contractor's field office(s), camps, godowns, workshops and residential accommodation for the Contractor's staff, quarry rights, borrow areas and access roads, to or about the Site and the Contractor's offices, camps, godown, workshops, accommodations, and Temporary Work and facilities whatsoever required for execution and Completion of the Work. Water and Power shall not be provided to the Contractor by OIL.
- c.** The scope of work in general includes scope of work specified in various Terms of Reference & Technical Specifications/ Technical Section and Schedule of Rates & Payment (SOR&P) enclosed in the Bidding Document. Further, it includes any other work not specifically mentioned but required to complete the specifications, drawings and instructions of OIL/EPMC.



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- d.** The scope of supply is as mentioned in Job Specifications/ Technical Specifications etc. of Bidding Document. All materials, equipments, labour & consumables required for successful completion of work shall be supplied by the Contractor and the cost of such supply shall be deemed to be included in the quoted rates.
- e.** The Contractor shall bear all the cost in his quoted price towards mobilization at site and demobilization including bringing in equipment, work force, materials, dismantling the equipment and clearing the site etc.
- f.** The Contractor shall be solely responsible for making available all requisite construction equipment, special aids, cranes, transport facilities, tools, tackle and testing equipment and appliances for successful execution of the work.
- g.** Preparing approaches and working areas for the movement and operation of the equipment, leveling the areas for assembly and erection shall also be the responsibility of the Contractor. The Contractor shall acquaint himself with access availability, facilities, local labour etc. to provide suitable allowances in his quotation. The Contractor may have to build temporary access roads to aid his own work.
- h.** The Contractor shall take utmost care not to damage or interfere with any Public Utility System, OIL's benchmarks, proximate facilities & operations during execution of the project. Any inadvertent damage / interference caused however shall be immediately repaired / restored to the original state by the Contractor at his own cost.

## **8.0 OIL'S OBLIGATIONS**

- a.** OIL shall provide for this project, sites at Barekuri with boundary wall.
- b.** OIL shall provide land for constructing site office, Godown, workshops, etc. within the project premises.

## **9.0 CONTRACTOR'S SITE OFFICE**

Immediately after intimation of award of the contract, the Contractor shall open a SITE OFFICE at a proximate location to the project site for supervision and control of project as well as effective liaison with EPMC / OIL. The Contractor shall nominate their Site-In-Charge (s) for



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coordination and supervision with OIL's Engineer-In-Charge / EPMC's Site Engineer.

## **10.0 REPORTING OF PROGRESS & DOCUMENTATION**

- a. The Contractor shall submit to EPMC/OIL progress reports on execution/progress of the project vis-à-vis the Implementation Schedule as stipulated in the Technical-Scope of Work (Section-II) of this tender document.
- b. The Contractor shall prepare all drawings & documentation and submit the same to EPMC/OIL in time in the manner and as stipulated in the Technical-Scope of Work (Section-II) of this tender document.

## **11.0 WORK IN MONSOON & DEWATERING**

- a. The execution of the work may entail working in the monsoon also. The Contractor must therefore cater adequately for such situations as may be required for the job and plan and execute the project in strict adherence to Implementation Schedule and according to the term and condition of the Contract. No extra rate shall be considered for such work in monsoon.
- b. During monsoon and other period, it shall be the responsibility of the Contractor to keep the work site free from water at his own cost.

## **12.0 ENGINEER-IN-CHARGE (EIC)**

The Company will designate EIC, who will be the contact persons for the Contractor. The EIC may sub-delegate responsibilities temporarily or for convenience of progress of the work. The EPMC shall be responsible for certifying quality as well as the measurement taken for progressive payments. However, the final decision of EIC or his sub-delegate shall prevail in this regard.

## **13.0 CONTRACTOR'S REPRESENTATIVE**

The Contractor shall designate one CONTRACTOR'S REPRESENTATIVE who shall be the Team Leader / Project Manager for execution of the project and also be the contact person for the Company. The Team Leader should be capable of giving all decisions related to the execution of the project work.



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## **14.0 CONTRACT PRICE**

The Contract Price shall be all inclusive lump sum prices for the entire Scope of Work in accordance with the Schedule of Rates (Section– IV) of this tender document.

### **A. SUPPLIES**

a) **Foreign Supplies (Finished goods imported from outside India for this project):**

Prices of all such Foreign Supplies on CIF, Kolkata or elsewhere basis including packing & forwarding charges, and all duties, taxes etc. except Customs Duty on eligible items. Foreign supplies of eligible items for this project are entitled for import on 'NIL' Customs Duty. Quoted price for eligible items therefore shall not include any Customs Duty. OIL will issue necessary Recommendatory Letter to Directorate General of Hydrocarbons (DGH) (Govt. of India) for availing 'NIL' Customs Duty on CIF values declared in Schedule of Rates (Section-IV) for eligible items. Foreign supplies not eligible for concessional Customs Duty shall be cleared on merit and Contractor's prices include customs duty payable on such supplies.

b) **Indigenous Supplies (Goods to be supplied from within India including item having Import content):** Prices of such Indigenous Supplies on FOR dispatch point basis including packing & forwarding charges, and all duties, taxes & levies without any exception. However, Customs Duty for the import contents shall be Nil and also Excise Duty under Deemed Export shall be Nil and requisite Certificate for availing Nil Excise Duty and other benefits under Deemed Export shall be issued by OIL for eligible items as applicable.

c) **Prices for commissioning spares and all mandatory spares as specified and all tools & tackles.**

### **B. INLAND TRANSPORTATION**

a) **Foreign Supplies (Finished goods imported from outside India for this project):** Cost of transportation of all goods from Kolkata port (nearest port of entry into India) and/or from any other place/works in India up to the Project site, including port & customs clearance and other incidentals at port of entry, handling,





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forwarding, loading/unloading from ships, trucks and all taxes and duties etc.

- b) Indigenous Supplies (Goods to be supplied from within India including item having Import content): Transportation cost of all goods from Contractor's works/ dispatch point up to the Project site, including handling, forwarding, loading/ unloading from trucks and all taxes and duties etc.
- c) Transit Insurance cost during the entire period covered under sub-clause 14.00 A and/or 14.00 B above as applicable to Foreign & Indigenous supplies and local / municipal / octroi / Assam Entry Tax/consumption tax etc. shall be included in the above transportation price. Beneficiary of all such insurance policies shall be OIL.

## C. SITE WORK

Cost of all site work as per Technical- Scope of Work (Section-II) and in accordance with General & Special Conditions of Contract (Section I & Section-III respectively) related to (but not limited to) site transportation, safe storage/ security of all materials at site, erection/ construction/ creation/ installation, testing, acceptance tests and trial run up to successful commissioning of the Plant including rectification of defects/malfunctioning during the specified commissioning period shall be within Contractor's scope.

## D. TRAINING

The Contractor, in coordination and conjunction with EPMC, has to provide the required training to OIL's Personnel, for Operation & Maintenance of the Plants, within the quoted rate. The training arrangement to expose OIL personnel methodically may be based on OIL approved training module. The training module should form a part of the bid.

## E. GENERAL

- a) The Contract Price against individual items per Schedule of Rates (Section-IV) of this document shall be inclusive of, amongst others, basic & detailed design & engineering Documentation.
- b) The Contract Price shall be inclusive of installation/ commissioning charges; all taxes, duties and levies as applicable on the Works/offered goods and services under the Contract (service tax





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amount indicated separately); taking into account eligible Customs duty exemptions and Deemed Export benefits.

**F. NOTES ON CONTRACT PRICE:**

Department of Revenue under Ministry of Finance, Govt. of India, vide circular No. 59/8/2003 DT 20.06.2003 (F.No. B3/7/2003-TRU) has clarified that commissioning and installation charges are for supply materials under turnkey contracts attract service tax. In case the commissioning and installation charges are shown as consolidated amount including cost of supply items, service tax shall be applicable on total consolidated price of the items. All activities other than the commissioning and installation of the plant/ machinery/ equipment *per se*, will not be chargeable to service tax. In view of above, it is desirable that the bidder should show separately [as per format given in Schedule of Rates (Section IV)] installation and commissioning charges, which attract service tax while indicating total cost of each item and accordingly, service tax benefit should be availed to reduce total cost of the project.

- a) All demurrage, wharfage and other expenses incurred due to delayed clearance of goods, or for any other reasons, either at Indian port of entry, or at any clearing point, shall be to the successful bidder's account. The successful bidder shall be responsible for making all necessary arrangements for complying with all necessary formalities at the Indian port of entry.
- b) The Contract Price break-up in accordance with above and as per the Schedule of Rates shall be solely for the purpose of facilitating bid evaluation and payments to be released by the Company, and will not in any way limit the Contractor's single point total responsibility for the complete Scope of Work and for the Contractor's all contractual responsibilities/ obligations as stated in this Document.
- c) It is for the Contractor to assess and ascertain applicability of taxes, duties, levies etc. applicable under the Contract. It is clearly understood that except for the specific provision covered in these conditions, the Company will not have any liability, whatsoever, on account of taxes, duties, levies etc., till the complete execution of the Contract. The Company will also not have any liability, whatsoever, on account of taxes, duties, levies etc. which are based on the bidder's wrong assessment/ interpretation of applicability of such taxes, duties, levies etc.
- d) If any tax is deductible at source as per Govt. laws, rules and regulations, the same will be so deducted by the Company from the



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Contractor's bills before releasing payments, and necessary certificate to that effect will be issued.

- e) Prices quoted by the Contractor shall be firm and fixed during the bidder's performance of the Contract and not subject to any escalation whatsoever.

## **15.0 TIME SCHEDULE**

The Contractor upon intimation of award of the contract shall prepare and submit to the Company an Implementation Schedule showing a plan of key activities in the form of, inter alia, a bar chart and ensure its strict adherence for completion of the project in all respects within the completion period as mentioned.

## **16.0 DEVIATION FROM TIME SCHEDULE (LIQUIDATED DAMAGE)**

- a. Time is the essence of this contract. If the Contractor fails to complete the Commission the OCS (after 3 months trial run) within the Scheduled time for Completion ie. 24 (Twenty four) months from the date of LOA, other than due to an event of Force Majeure or any reason solely attributable to OIL, then the Contractor shall be levied liquidated damages at the rate of 0.5% per week or part thereof of the Contract Price subject to a maximum of 7.5% of the Contract Price. This clause shall also be referred to as Liquidated Damage Clause of this Contract. The decision of OIL in regard to applicability of liquidated damage shall be final and binding on the Contractor.
- b. The imposition of Liquidated Damage shall not relieve the Contractor from its obligations to complete the works and facilities, or from any of its other duties, obligations or responsibilities under the contract. The Contractor shall use and continue to use its best endeavour to avoid or reduce further delay to the works or issue of completion certificate.
- c. Application of Liquidated Damage under this clause 16.0 shall be without prejudice to any other right of OIL, including the right of termination.

## **17.0 RELEASE OF PAYMENT**

- a. Payment shall be released in stages as mentioned in Section -IV, Schedule of Rates and Payment schedule. Progressive payments shall be released



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**monthly** in accordance with the payment schedule, upon progress of individual work.

- b. The payments to the Contractor will be released within a period of 30 days ( or as applicable) from the date of receipt of Complete invoice as per the Terms of Payment and in line with Terms and conditions of the Contract.
- c. Further break-up of Lumpsum payment of individual item shall be mutually arrived at between Project/Engineer-in-Charge/OIL/EPMC and the Contractor.
- d. All payments against running bills are advance against the work and shall not be considered as final acceptance of the work / measurement carried out till the final bill.

#### 17.1 MODE OF PAYMENT

OIL shall make payments only through Electronic Payment mechanism (viz. NEFT/RTGS /ECS) for which following particulars would be required from successful bidder along with First Invoice:

- a) Name & Complete Address of the Supplier / Contractor as per Bank records.
- b) Name & Complete Address of the Bank with Branch details.
- c) Type of Bank account (Current / Savings/Cash Credit).
- d) Bank Account Number (indicate 'Core Bank Account Number', if any).
- e) IFSC / NEFT Code (11 digit code) / MICR code, as applicable, alongwith a cancelled cheque leaf.
- f) Permanent Account Number (PAN) under Income Tax Act;
- g) TIN/Sales Tax Registration Number (for supply of Goods) and Service Tax Registration Number (for supply of Services), as applicable.
- h) E-mail address of the vendor / authorized official and Mobile No.(for receiving the updates on status of payments).
  - I. Copy of valid registration certificate under the service tax / VAT rules.
  - II. Insurance policies as required and proof of payment of premium thereof
  - III. Copy of EPF registration certificate.



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## **18.0 MOBILISATION ADVANCE**

Contractor shall be paid recoverable interest bearing Mobilization Advance up to a maximum of 10% (ten percent) of awarded Contract value. The 10% of the Contract value may be divided into two parts, namely 10% of the Foreign Currency portion comprised in the Lump sum price and 10% of the Indian Rupees comprised in the Lump sum Price. The mobilization advance will attract an interest rate at PLR charged by SBI (applicable as on date of award) plus 1% p.a. on reducing balance basis. Mobilization Advance shall be paid to the Contractor in two installments after signing the Contract agreement and submission of initial security deposit, in the following manner:

**a. First Installment**

5% (five percent) of awarded contract value shall be payable as the first installment of mobilization advance after fulfilling formalities by the Contractor:

- i. Signing of Contract agreement by the Contractor.
- ii. Submission of a separate Bank Guarantee towards Contract Performance from an Indian Scheduled Bank (Nationalized or Private) / Indian branch of an international bank in approved proforma towards due performance of contract equivalent to 7.5% of awarded contract value which shall be kept valid till up to 3 months after expiry of defect liability period.
- iii. Submission of a separate Bank Guarantee from an Indian Scheduled Bank (Nationalized or Private) / Indian branch of an international bank as stipulated in approved proforma equivalent to 10% of 110% of the awarded contract value covering mobilization advance which shall be kept valid till completion of work. However, Contractor may submit Bank Guarantee of 10% as above in two stages of 5% each for availing advance against sub-clause (b) below.

**b. Second Installment**

Balance 5% Mobilization Advance shall be payable to the Contractor after Contractor has constructed Site Office, storage shed, fabrication yard etc. and has physically mobilized equipments and is ready to start the work to the entire satisfaction of EIC/ EPMC and commencement of the work at site.

## **18.1 RECOVERY OF MOBILIZATION ADVANCE:**



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The Mobilization Advance together with the interest accrued, shall be recovered from each running bill @ 15% of gross amount of monthly R.A Bill in such a manner that the total advance and interest accrued is recovered when approximate 80% of the Contract value gets paid. Unadjusted balance amount of the Advance, if any, shall be deducted in full from the pre-final bill or payments due on commissioning as decided by EIC/EPMC.

**Note:**

- I. Where foreign currency advances are in more than one foreign currency, separate bank guarantees shall be given with respect to each foreign currency advanced.
- II. Foreign currency advance(s) shall carry interest @ SBI PLR PLUS ONE PERCENT per annum for relative foreign currency. The advance (s) shall, without prejudice to any other mode of recovery as may be available to the OWNER/OIL, be recovered from the R.A Bills and other bills of the contractor made out in the relative foreign currency @10% of the amount payable against the bill. The interest accrued thereon shall be additionally deducted from the amount payable on each bill.
- III. All recoveries against advance(s) shall be apportioned to interest and then to principal. The value of the BG(s) for mobilization advance can be reduced quarterly, based on the mobilization advance recovered till that time.

## **19.0 PERFORMANCE SECURITY**

Bank guarantees to be furnished by the Contractor as stated in clause no. 18.00 above shall form the Performance Security amount. Default by the Contractor to meet the obligations of warranty & assurance shall forfeit such Performance Security amount in favour of the Company. This clause shall also be referred to as **Performance Security Clause** of this Contract.

## **20.0 PATENTS, RIGHTS, LIABILITY AND COMPLIANCE OF REGULATION:**

- a) Contractor hereby warrants that the use or sale of the goods delivered hereunder will not infringe claims of any patent covering of such goods and Contractor agrees to be responsible for and to defend at his sole expense all suits and proceedings against COMPANY based on any such



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alleged patent infringement and to pay all costs, expenses and damages which COMPANY may have to pay or incur by reason of any such suit or proceedings. Final payment to the Contractor by the Company will not be made while any such suits or claim remains unsettled.

- b) The Contractor shall indemnify COMPANY against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof.
- c) For this purpose, the Company shall enter into a license agreement, if required, with the Contractor separately covering the forgoing over the period the equipment, software etc. are in actual use in the operations of the Company.
- d) The bidder shall submit format of such agreement envisaged in subclause (c) hereof along with the bid.
- e) Contractor shall also protect and fully indemnify COMPANY from any claims from Contractor's workman/employees or their heirs, dependants, representatives etc. or from any other person/ persons or bodies/companies etc. for any acts of commissions or omission while executing the Contract.
- f) Contractor shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely COMPANY from any claims/penalties arising out of any infringements.

## 21.0 SITE CLEANING

The Contractor should take care to clean the job site at all times for easy access to the job site and also from the safety point of view to the satisfaction of the EIC.

## 22.0 SUB-CONTRACTORS

**22.1** A minimum of following activities shall be performed by the Contractor and shall not be sub-contracted:

- i. Project Management
- ii. Planning
- iii. Procurement
- iv. Construction Management
- v. Pre-Commissioning / Commissioning assistance
- vi. Engineering sub-contractor





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- 22.2** Contractor may subcontract the Detailed engineering to an engineering sub-contractor (if applicable) to be proposed by them along with the bid and duly approved by EPMC/OIL, before award of work.
- 22.3** Contractor may sub-contract construction work, to the sub-contractors having prior proven experience of similar work and on specific approval by EPMC/OIL after award of work.
- i. Following the notification of Acceptance of Bid the CONTRACTOR will submit to OWNER for approval the details of sub-contractors for construction. Contractor shall ensure that very competent and resourceful agencies with proven track record and performance are proposed for the work to be sub-contracted.
  - ii. The list of construction sub-contractors proposed in the Bid by the Bidder shall be considered as indicative only.
- 22.4** The Contractor shall deploy all manpower relating to works at site i.e. Project Manager, Quality Control engineers for various disciplines, planning engineers and front line supervisors for civil, electrical, Mechanical, piping and instrumentation job from his organization. Sub-contracting of these activities shall not be permitted under any circumstances.

## 23.0 REQUIREMENT OF EMPLOYMENT VISA FOR FOREIGN NATIONALS

All Foreign nationals coming to India for execution of Projects / Contracts will have to apply for Employment Visa only and that grant of Employment Visa would be subject to strict adherence of following norms:

- 23.1 Employment Visa is granted only for the skilled and qualified professionals or to a person who is being engaged or appointed by a Company, Organisation, Industry or Undertaking etc. in India on contract or employment basis at a senior level, skilled position such as technical expert, senior executive or in managerial position etc.
- 23.2 Requirement for Employment Visa for jobs for which large number of qualified Indians are available, is not considered.
- 23.3 Under no circumstances an Employment Visa is granted for routine, ordinary secretarial / Clerical jobs





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23.4 CONTRACTORS are advised in their own interest to check latest Visa rules from Indian Embassy/ High Commission in their country in case Foreign Nationals are required to be deputed to India during execution of the Contract.

### **24.0 REQUIREMENT OF PAN FOR FOREIGN BIDDER**

In case of Foreign Bidder, it is mandatory to furnish Permanent Account Number (PAN), as per the Indian Income Tax requirements, failing which Foreign Bidder shall be responsible for any additional tax deduction at source as per the provisions of the Indian Income Tax Act/Rules. The PAN shall be furnished before release of any payment or within one month of award of work, whichever is earlier.

### **25.0 REGISTRATION OF THE CONTRACT WITH STATUTORY AUTHORITIES (FOR FOREIGN BIDDER)**

Within 30 days of execution of the Contract Agreement, the Contractor shall register themselves and the Contract at their own cost with the Reserve Bank of India, Income Tax, Sales Tax and such other statutory authorities, as may be required under the rules and regulations governing in India. The Contract Price shall be deemed to include all costs towards the same. A copy of all documents related to all such registration shall be submitted to OIL/EPMC for record.

### **26.0 INSURANCE**

The clause 10.0 of General Conditions of Contract is modified to the following extent:

#### **26.1 INSURANCE IN FOREIGN COUNTRIES**

26.1.1 The Contractor shall at his own cost arrange, secure and maintain separate insurance cover from the reputable insurance companies, for all such amounts and for such periods as may be necessary to protect the works, Contractor and sub-contractor's personnel and the interests of OIL as per applicable laws of land.

26.1.2 The form and the limit of insurance cover taken by Contractor shall be satisfactory to OIL and one copy of all insurance policies and related documents shall be submitted to OIL, immediately on execution. Contractor shall inform OIL/EPMC at least 60 days before any insurance policies expire or are cancelled or changed.



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### 26.2 INSURANCES IN INDIA

**26.2.1** In addition to the insurance covers specified in the General Conditions of Contract to be obtained and maintained by the Contractor, Contractor shall at his own expense arrange, secure and maintain insurance with reputable insurance companies to the satisfaction of the Company as may be necessary and to its full value for all such amounts to protect the works in progress from time to time and the interest of the Company against all risks as detailed herein. The form and the limit of such insurance as defined herein together with the underwriter works thereof in each case should be as acceptable to the Company. However, irrespective of work acceptance, the responsibility to maintain adequate insurance coverage at all times during the period of Contract shall be that of Contractor alone. Contractor's failure in this regard shall not relieve him of any of his responsibilities and obligations under Contractor.

**26.2.2** Any loss or damage to the equipment during ocean transportation, port/custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the Work is taken over by Company, shall be to the account of Contractor. Contractor shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/or replacement of the parts of the Work damaged or lost. Contractor shall provide the Company with a copy of all insurance policies and documents taken out by him in pursuance of the Contract. Such copies of documents shall be submitted to the Company immediately upon the Contractor having taken such insurance coverage. Contractor shall also inform the Company / EPMC at least 60 (Sixty) days in advance regarding the expiry cancellation and/or changes in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time.

**26.2.3** Statutory clearances, if any, in respect of foreign supply required for the purpose of replacement of equipment lost in transit and/or during erection, shall be made available by the Company. Contractor shall, however be responsible for obtaining requisite licenses, port clearances and other formalities relating to such import. The risks that are to be covered under the insurance shall include, but not be



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limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk (during ocean transportation only) etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials to be imported from time to time.

**26.2.4** All costs on account of insurance liabilities covered under this Contract will be to Contractor's account and will be included in Contract Price. However, the Company/EPMC may from time to time, during the currency of the Contract, ask the Contractor in writing to limit the insurance coverage risk and in such a case, the parties to the Contract will agree for a mutual settlement, for reduction in value of contract to the extent of reduced premium amounts.

**26.2.5** Contractor as far as possible shall cover insurance with Indian Insurance Companies, including marine Insurance during ocean transportation.

## 27.0 RENTS & ROYALTIES

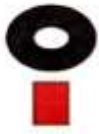
Unless otherwise specified, the CONTRACTOR shall pay all tonnage and royalties, rents and other payments or compensation (if any) for getting stone, sand, gravel, clay, bricks or other materials required for the works or any temporary works.

## 28.0 SITE ORGANISATION

The Contractor shall without prejudice to his overall responsibilities and liabilities to provide adequate qualified and skilled personnel on the work shall deploy site organization and augment the same as decided by the OIL/EPMC depending on the exigencies of work. Qualification and Experience of key construction personnel shall be as per the requirement of the Bidding Document for the Project. In addition to this Contractor shall deploy Safety Supervisors to ensure safer working conditions at site. In case where the works are subcontracted by the Contractor, Safety Supervisors are to be provided by the Contractor.

## 29.0 SURPLUS MATERIALS

Surplus Civil Construction materials and the products of dismantling temporary works erected by the Contractor shall vest in and belong to the Contractor upon completion of the works and/ or earlier termination of the contract for any cause, with right in the Contractor, subject to other



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terms & conditions of the contract, to remove the same from the job site subject to satisfactory proof of supply.

### **30.0 SINGLE POINT RESPONSIBILITY**

The entire work as per scope of work covered under this Contract shall be executed on single point responsibility basis.

### **31.0 TESTS AND INSPECTION OF WORKS**

**31.1** The Contractor shall carry out the various tests as enumerated in the bidding document and as per direction of Project/Engineer-in-Charge either on field or outside/ laboratories concerning the execution of works and supply of materials by Contractor. All the expenses shall be borne by the Contractor and shall be considered as included in the quoted price. The inspection shall be done by followings:

- i) Representative deputed by OIL/EPMC for Pumps and Engine.
- ii) For other Inspection the CONTRACTOR shall carry out inspection activities. In respect of imported equipment/ materials and Indigenous materials, field tests shall be carried out by the approved Third Party Inspection Agencies.
- iii) The OIL/EPMC or their representative shall reserve the right to inspect/ witness, review any or all stages of work at shop/site as deemed necessary for quality assurance.

**31.2** Contractor shall give prior notice sufficiently ahead of time to the OIL/EPMC and also to the authorities to conduct inspection/ to witness such tests.

**31.3** All the tests either on the field or at outside laboratory concerning the execution of the work and supply of materials by the Contractor shall be carried out by the Contractor at his own cost

**31.4** The work is subject to inspection at all times by the OIL/EPMC. The Contractor shall carry out all instructions given during inspection and shall ensure that the work is being carried out according to the technical specifications of this bidding document, the technical documents that will be furnished to him during performance of the work and the relevant codes of practice furnished to him during the performance of work.

**31.5** The Contractor shall provide for purposes of inspection, access ladders, lighting and necessary instruments at his own cost



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including Low Voltage Lighting equipment for inspection of work. Compressed air for carrying out works shall be arranged by the Contractor at his own cost.

- 31.6** Any work not conforming to the execution drawings, specifications or codes shall be rejected forthwith and the Contractor shall carry out the rectifications at his own cost.
- 31.7** All results of inspection and test will be recorded in the inspection reports, proforma of which will be approved by the OIL/EPMC. These reports shall form part of the Completion Documents.
- 31.8** Inspection and acceptance of the work shall not relieve the Contractor from any of his responsibilities under this contract.
- 31.9** Cost towards repeat tests and inspection due to failures, repairs etc. for reasons attributable to the Contractor shall be borne by the Contractor.
- 31.10** Contractor shall arrange for third party inspection by any of the agencies specified in the Bidding Document. The prices shall be inclusive of charges towards third party inspection. Coordination and liaisoning etc. with third party inspection agency shall also be the responsibility of the Contractor.
- 31.11** Third Party Inspection, if any, shall be carried out through OIL's approved TPI agencies viz. CEIL, LRIS, DNV, BV and TUV.

## **32.0 FINAL INSPECTION**

After completion of all tests as per specification the whole work will be subject to a final inspection to ensure that job has been completed as per requirement. If any defects noticed in the work are attributable to Contractor these shall be attended by the Contractor at his own cost, as and when they are brought to his notice by EPMC/OIL. EPMC/OIL shall have the right to have these defects rectified at the risk and cost of the Contractor if he fails to attend to these defects immediately.

## **33.0 IMPORT LICENSE**

The Contractor shall arrange import license of their construction equipment, if any as per the guidelines laid down by the Govt. of India. OIL shall not provide import license.

## **34.0 CUSTOM DUTY ON CONSTRUCTION EQUIPMENT**

- 34.1** Contractor is liable to pay custom duty on the equipments brought into India for executing the project on reexport basis. The Contractor shall be fully liable for observing all the formalities in



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this regard as well as to pay the custom duty chargeable on the equipments, including any deposit payable for such purposes. No adjustment in contracted rates shall be permissible for any change in duty drawback applicable in respect of equipment & machinery brought in India for the use of the project and for re-export of equipment and machinery, on completion of the project.

- 34.2** If the Custom Authorities require the Contractor to furnish a bond to secure payment of any custom duty in respect of any import and that such Bond shall be furnished by OIL, OIL may at the request of the Contractor furnish the said bond against the Contractor furnishing a Bank Guarantee to OIL, of the like amount in the form and from a Bank in India approved by OIL.
- 34.3** If for any reason OIL is required by the Customs Authorities during the pendency of the contract to pay any customs duty due to the importation or retention by the tractor of any imports, the Contractor shall forthwith on demand by OIL pay the same to OIL, with the right in OIL (without prejudice to any other mode of recovery or right of OIL) to deduct the same from the on account and other payments due and / or becoming due or payable to the Contractor from time to time. The payments under such a case shall be subject to submission of Bank Guarantee from a Bank approved by OIL, by the Contractor in favour of OIL for an amount equivalent to amount of Customs Duty.
- 34.4** The obligations undertaken and/or any bond or facility provided by OIL to the Contractor shall be based on the clear understanding that the said equipment shall be utilised by the Contractor only for the performance of the work covered under this contract and that OIL shall be discharged forthwith from all said obligations and shall be entitled forthwith to discontinue and recall any bond or other facility to the Contractor if the Contractor shall utilise or permit to be utilised the said equipment(s) or any of them for the performance of any work other than the work covered by the Contract in which event any amount due from Contractor in this connection shall also carry interest @22% (Twenty two percent ) per annum from the date of relative payment by OIL upto the date of recovery in full.

## 35.0 SPARE PARTS

### 35.1 Commissioning Spares

The Contractor shall procure and supply all spare parts required during commissioning of the various systems as enumerated in the Bidding Document. The lumpsum Contract Price shall be deemed to be inclusive of the provision of all such commissioning spares required till successful commissioning of the Unit/Plant/Job. The





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Contractor should make available all the commissioning spares required at site at least 4 (Four) weeks prior to commissioning.

#### **35.2 Mandatory Spares**

The Contractor shall within the lumpsum Contract Price supply all the mandatory spares required for the Unit/Plant as specified elsewhere in Bidding Document.

#### **36.0 TAXES, DUTIES & LEVIES**

The clause 8.0 of General Conditions of Contract is modified to the following extent:

#### **36.1 ADD THE FOLLOWING PROVISIONS**

##### **36.1.1 SERVICE TAX**

- I. Lumpsum prices in the Schedule of Rates shall be exclusive of Service Tax but including Education Cess. Bidders shall quote Service Tax rate considered by them in Schedule of Prices.
- II. Service Tax shall be reimbursed to the CONTRACTOR at actuals against submission of invoice issued in accordance with Service Tax Rules .
- III. Service Tax rate indicated in the SOR&P shall be subject to statutory variation subsequent to submission of last price bid

##### **36.1.2 TAXES, DUTIES AND LEVIES IN FOREIGN COUNTRIES**

The Contractor agrees to and does hereby accept full and exclusive liability at his own cost for payment of any and all taxes, duties and levies etc. as are payable to any government, local or statutory authority in any country other than India, as are now in force or as hereafter imposed, increased or modified, and as are payable by Contractor, his agents, sub-contractors and their employees etc. for performance of work under this contract. The Contractor shall be deemed to have been fully informed with respect to all such liabilities and considered the same in his bid, and the contract shall not be varied in any way on this account.





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**36.1.3 OTHER REQUIREMENTS**

- i. The benefit of any Tax exemption, concessions, rebate or any other incentives available when the Contractor or its Subcontractors/ vendor are performing their obligations under the Contract, shall be passed on to OIL.
- ii. Contractor agrees for withholding from wages and salaries of its agents, servants or employees all sums, required to be withheld by the laws of the Republic of India or any other agency having jurisdiction over the area where Contractor is conducting operations, and to pay the same promptly and directly when due to the proper authority. Contractor further agrees to comply with all accounting and reporting requirements of any Nation having jurisdiction over the and to pay the cost of such compliance. If requested by OIL, Contractor will furnish OIL the evidence of payment of applicable Taxes, in the country (ies) of the Contractor's and his sub-contractor(s) and expatriate employees.
- iii. OIL shall issue a Tax deduction or withholding certificate to the Contractor evidencing the Tax deducted or withheld and deposited by OIL on payments made to the Contractor to enable the Contractor to claim the credit of the Tax deducted or withheld by OIL.

**37.0 INTELLECTUAL PROPERTY**

Neither OIL nor Contractor nor their personnel, agents nor any contractor shall divulge to any one (other than persons designated by the party disclosing the information) any information designated in writing as confidential and obtained from the disclosing party during the course of execution of the works so long as and to the extent that the information has not become part of the public domain. This obligation does not apply to information furnished or made known to the recipient of the information without restriction as to its use by third parties or which was in recipient's possession at the time of disclosure by the disclosing party. Upon completion of the works or in the event of termination pursuant to the provisions of contract, Contractor shall immediately return to OIL all drawings, plans, specifications and other documents supplied to the Contractor by or on behalf of OIL or prepared by the Contractor solely for the purpose of the performance of the works, including all copies made thereof by the contractor.



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### 38.0 PROVISION OF FABRICATION SHED

Contractor shall provide all weather fabrication sheds at sites for all pre-fabrication of piping works and fabrication of structural steel work to the satisfaction of EPMC/OIL. The requirement of fabrication sheds shall be firmed up in consultation with EPMC/OIL for numbers/ size of fabrication shed.

### 39.0 PROVISION OF PROPER WAREHOUSING

In line with requirements specified in GCC and specifications, materials shall be properly stored by Contractor in his warehouse to enable easy traceability, handling and preservation with all materials having proper identification marks, colour coding etc. to the satisfaction of EPMC/OIL. In case Contractor fails to follow the specified requirements, next payment due to him shall not be released till he complies with all the requirements.

**\*\*\*End of PART-3 SECTION-III\*\*\***



**PART – 3 Section-IV**  
**SCHEDULE OF RATES (SOR) AND**  
**PAYMENT**

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**A. SCHEDULE OF RATES/ SCHEDULE OF PRICE ( Form SP0)**

Sr. No.	Description	UNIT	Total Quoted Price = ( i + ii )	
			Amount in Foreign Currency (i)	Amount in Indian Rupees (ii)
I. SUPPLIES				
(1)	<b>Total Cost of Supplies / Material</b> covering procurement, manufacture and supply for the complete project on LSTK basis for entire scope of Project as given in bidding document including excise duty, customs duty, sales tax, Entry Tax, VAT/ works contract tax, inland freight, insurance and all other applicable taxes and duties but excluding Service Tax (after considering eligible/ applicable customs duty exemptions and deemed export benefits as detailed in the bidding document).	Lumps um		
(a)	Amount of Excise Duty included in price of supplies/ material under (1) above on various indigenous/ imported items falling under various chapters of Excise Tariff Act for which bidder undertakes to provide appropriate documents to OIL for	Lumps um		

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	availing CENVAT credit under CENVAT scheme as applicable.			
<b>(b)</b>	Amount of CVD included in price of supplies/ material under (1) above on various indigenous/ imported items falling under various chapters of Excise Tariff Act for which bidder undertakes to provide appropriate documents to OIL for availing CENVAT credit under CENVAT scheme as applicable.	Lumps um		
<b>(c)</b>	<p>Amount of Central Sales Tax on inter-state sales included in price of supplies/ material for finished goods alone under (1) above with issue of Form C.</p> <p><b>Note:</b> No Form C will be issued to Contractor for inter state sales/ bought out raw material/ consumables (other than finished goods) e.g. cement, reinforced steel, structural steel, sand, bricks, stone, tiles etc. and accordingly bidder's quoted price under (1) shall be inclusive of CST without Form-C.</p>	Lumps um		
<b>(d)</b>	Total CIF Indian Port value of imported items included in price of supplies/ material under (1) above	Lumps um		



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### II. SERVICES

(2)	<b>Total Cost for Engineering</b> inclusive of all applicable Taxes, duties except Service Tax	Lumps um		
(3)	<b>Total Cost of Services</b> for entire Work (exclusive of Service Tax) including Construction/ fabrication (Erection & installation), Commissioning and Performance Guarantee Test Run inclusive of all applicable Taxes, duties except Service Tax	Lumps um		
(4)	<b>Total Amount of Service Tax</b> payable extra for the works/services under this Project.  <b>Note:</b> Effective Rate of Service tax to be indicated by bidder after considering applicable rules and follow the provisions of Service Tax including Government of India's latest Notifications & subsequent amendments, if any.	Lumps um		
(5)	<b>TOTAL LUMP SUM QUOTED PRICE(LSTK) inclusive of all taxes, duties including prevailing Service Tax, insurance, EPF and ESI =</b> <b>(1)+ (2) + (3) +(4)</b>			

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**Notes:**

(A) For bid evaluation purpose, amount quoted in foreign currency will be converted to INR as per procedure described in clause 6.2 under BEC of PART – 2.

(B) Amounts quoted under (a), (b), (c) and (d) in Sl. 1 above are not to be considered for bid evaluation.

(C) Bidders are required to show their price breakup in the appropriate columns. If any column is not applicable for a particular item, bidder should mention 'Not applicable' or 'Nil'. In case nothing is mentioned in the column for an item it will be construed as no charge is applicable.

Rate of Service tax considered by bidder: \_\_\_\_\_

Currency of Foreign Component quoted : \_\_\_\_\_





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### PREAMBLE TO SCHEDULE OF PRICES

**NAME OF WORK: Engineering, Procurement and Construction (EPC) for construction of the Oil Collecting Station (OCS) at Barekuri/Assam on Lumpsum Turnkey (LSTK) basis**

1. Bidder's quoted prices shall be strictly as per various FORMS included under Schedule of Prices. Bidder shall quote LUMPSUM PRICE for entire scope of work including Pre-Engineering Survey, Detailed design/ engineering based on Basic Engineering package, Procurement, Manufacturing & Delivery, Fabrication and supply, site grading and leveling, Construction (Civil and Structural), Transportation, Erection / Installation, Piping, Hook-up to the systems, Painting, Instrumentation, Electrical works, Testing, Pre-commissioning and Commissioning after successful completion of 3 months continuous Performance Guarantee Test Run (PGTR) of the total System and other works as indicated above and the quote **shall be inclusive** of all taxes, duties, octroi, cess, etc. This LUMPSUM PRICE may also be referred as Lump sum Turn Key Basis (LSTK) and LSTK shall include supply of mandatory spares.

2. The price quoted shall be lump sum price on turnkey basis. Unless the basic parameter changes or additional/ extra requirements are made, total payments to be made to the contractor shall be limited to lump sum price indicated, irrespective of the progressive payments made during execution based on the split up of price.

Obligation of the Contractor is not limited to the quantities that the Contractor may either indicate in the Schedule of Breakup of Lump sum Prices along with his bid or in further detailed break of lump sum prices furnished after award of work. Contractor shall carry out entire scope of work/supplies as detailed in various sections/volumes of the Bidding Document within the quoted LSTK Price (Contract Price).

3. Lump sum prices quoted by the Bidder shall include cost of any other supplies/work(s) not specifically mentioned in the Bidding Document but necessary for the efficient, trouble free operation of the Plant and to make this package job complete.
4. Bidder to note that breakup of lump sum price is for reference only and total price payable under the Contract shall be restricted to the LSTK Price / Contract Price indicated in Schedule of Price FORM-SP0. **The Price evaluation shall be based on the LSTK Price quoted in Sl. No.5 of Form-SP0 only .**
5. Spares for start-up/commissioning and mandatory spares required are in CONTRACTOR's scope and are included in their above quoted LSTK Prices.

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6. Bidder shall indicate foreign currency considered by them for overseas components.
7. Bidder shall ensure that Lump sum prices quoted include the complete scope of supply/ work in totality as below.
  - i) **Sr. No-2** - Engineering including but not limited to
    - a) Pre-Engineering Survey
    - b) HAZOP and SIL study
    - c) Preparation of 3D Computer modeling with simulation of the OCS on PDS (Plant Design System) or PDMS (Plant Design Management System),
    - d) Detailed engineering including mechanical design, Engineering drawings for all items, Detailed fabrication drawings, MTO etc, for all Equipments/ Vessels and package systems.
    - e) Updating of construction sequences in the 3D computer animated model with simulation & Life Cycle Data sheet.
    - f) Provision of necessary supports for obtaining statutory approvals for individual equipment / instrument.
    - g) Submission of list of BOM ( Bill of materials) in soft and hard form against all materials & equipments installed at the OCS along with quantities, manufacturer details, technical specifications etc.
    - h) Submission of as built live 3D computer animated walkthrough model of the OCS
    - i) Submission of Quality assurance, Quality Control, Quality Plan and Inspection plan.
    - j) Submission of HSE Plan
  - ii) **Sr. No-1**, Procurement, Fabrication and Supply including but not limited to
    - a) Procurement of all materials whatsoever required for the fabrication, supply of equipment along with associated piping, instrumentation. Structural platforms, ladders / stairs, support etc. within the specified battery limits and delivery of the complete system at site
    - b) Procurement and supply of package systems
    - c) Procurement and supply of Mandatory spares
    - d) Fabrication of all items covered in Bid Package including Surface Preparation and Painting.
    - e) Packing, Transportation and supply of all items to site.
    - f) Inspection and expediting for procurement
    - g) Supply of All special tools and tackles as required and recommended by bidder

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**Sr. No-1(a) and 1(b)**, indicating the total amount included in Lumpsum price under Sl. 1 towards cenvatable excise duty and cenvatable countervailing duty.

**Sr. No-1(c)** indicating component of CST eligible for issue of form-C (included in the Lump sum Price under Sl. 1.

**Sr. No-1(d)**, indicating total C.I.F. Value of imported goods (not raw materials) included in Lumpsum Price under Sl. 1 which shall be used for computation of variation in custom duties as a result of any statutory variation.

iii) **Sr. No-3**, Construction(Erection/Installation) including but not limited to

- a) Unloading of all materials, storage at site in a safe place and in-situ transportation.
- b) Construction supervision and assistance in project management
- c) All site work including site grading and leveling, Construction (Civil and Structural), Site welding, Erection / Installation, Piping, Hook-up to the systems, Painting, Instrumentation, Electrical works and Testing.
- d) Pre-commissioning and Commissioning after successful completion of 3 months continuous Performance Guarantee Test Run (PGTR)
- e) Operator training and technical support during test run

iv) **Sr. No-4**, indicating Amount of Service Tax payable extra.

8. Bidder shall also furnish the cost Break up of Schedule of Price as per Annexure-A **which will not be used for Price Evaluation purpose** .

9. Title of material other than finished goods shall not be transferred by Contractor to OIL at the time of supply and brought to site and shall only be deemed to be transferred by Contractor upon final completion. Only capital goods/ finished goods which are sold & consigned to OIL and for which Form-C shall be issued by OIL, Contractor shall supply the title to OIL, at the stage of ex-works.



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**B. PAYMENT SCHEDULE**

Progressive Payments to Contractor shall be made for the activities as stated below to the extent of weightages mentioned against each on basis of LSTK price (*quoted vide Sl. 5 of Form SPO*) limits indicated under Service Line Items 10,20,30 & 40:

Service line Item	SL No	Description of Work	Wt %	Payment limited to
10	A	<b>PROJECT MANAGEMENT and ENGINEERING</b>		<b>10% of LSTK Price</b>
110	1	Submission and Approval of Project schedule (Bar Chart with weighted percentage of the whole project), all Quality and HSE documents	10%	
120	2	Construction of Site office, storage yard, Fabrication yard etc and physical mobilization of equipments/Tools and tackles required for construction and ready to start site work to the entire satisfaction of EPMC/OIL	10%	
130	3	Engineering- Submission of documents for approval (IFA) , approval under code-2 and presentation of Computer animated AEC Walkthrough.	30%	
140	4	Engineering- HAZOP study, SIL study etc. for OCS and close-out	10%	
150	5	Engineering- Submission of AFC documents under code-2	20%	
160	6	Engineering- Submission of As-Built documents, Operation and Maintenance manual	10%	
170	7	Engineering-Completion of all works in all respects and against issuance of completion certificate.	10%	



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Service line Item	SL No	Description of Work	Wt %	Payment limited to
20	B	<b>PROCUREMENT</b>		<b>40% of LSTK Price</b>
210	8	Procurement-Placement of Purchase Orders (List of raw materials for major items/critical items, Package systems, Miscellaneous items and Bar chart with weighted percentage will be agreed after award of contract and receipt of BOM)	10% against BG for equivalent value valid up to contractual date of completion. BG shall be released on receipt of material at site and acceptance	
220	9	Procurement-Verification of materials by EPMC/3 <sup>rd</sup> party and certification(List of raw materials for major items/critical items, Package systems, Miscellaneous items and Bar chart with weighted percentage will be agreed after award of contract and receipt of BOM)	10% against BG for equivalent value valid upto contractual date of completion. BG shall be released on receipt of material at site and acceptance	
230	10	Procurement-Ready for Delivery of items (List of raw materials for major items/critical items, Package systems, Miscellaneous items and Bar chart with weighted percentage will be agreed after award of contract and receipt of BOM) <b>Against proof of shipment / dispatch of materials</b>	30%	



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<b>Servi ce line Item</b>	<b>SL No</b>	<b>Description of Work</b>	<b>Wt %</b>	<b>Payment limited to</b>
240	11	Procurement- Delivery of items at site (List of raw materials for major items/critical items, Package systems, Miscellaneous items and Bar chart with weighted percentage will be agreed after award of contract and receipt of BOM) Against certification by OIL/EPMC	40%	
250	12	Procurement-Completion of construction activities (Hydro test and pre-commissioning) and total plant ready for commissioning	10%	
<b>30</b>	<b>C</b>	<b>CONSTRUCTION and COMMISSIONING</b>		<b>40% of LSTK Price</b>
310	13	Construction- Fabrication of all items, NDT, Hydro test Surface Preparation and Painting and ready for dispatch as certified by EPMC/3 <sup>rd</sup> party on pro-rata basis as per the approved schedule of activities.	30%	
320	14	Construction- Delivery of Fabricated items at site against certification by OIL/EPMC on pro-rata basis as per the approved schedule of activities.	10%	
330	15	Construction- All site work including site grading and leveling, Construction (Civil and Structural) and Site welding, Erection / Installation, Piping, Hook-up to the systems, Painting, Instrumentation, Electrical works and Testing as certified by EPMC/OIL on pro-rata basis as per the approved schedule of activities.	40%	



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<b>Servi ce line Item</b>	<b>SL No</b>	<b>Description of Work</b>	<b>Wt %</b>	<b>Payment limited to</b>
340	16	Construction- Systems hydro test and pre-commissioning as certified by EPMC/OIL on pro-rata basis as per the approved schedule of activities.	10%	
350	17	Organizing training for OIL's personnel for Operation and Maintenance of the plant.	3%	
360	18	Successful Commissioning of OCS	7%	
<b>40</b>	<b>D</b>	<b>PGTR</b>		<b>10% of LSTK Price</b>
410	19	PGTR- as certified by EPMC/OIL on pro-rata basis as per the approved schedule of activities.	60%	
420	20	PGTR-Successful Trail run of the OCS	40%	

**A) NOTES TO PAYMENT SCHEDULE**

- i. Payment shall be made for Sl. No. 1, 2 4, 6 & 7 upon completion of these activities and acceptance by EPMC/OIL.
- ii. Monthly Payment shall be made for Sl. No. 3 & 5 on prorata basis depending upon progress of each event as per approved schedule of activities (Bar Chart)
- iii. Monthly payment for Sl. No. 8, 9, 10 & 11 shall be made on the basis of physical progress of the work of each activity as per approved schedule of activities (Bar Chart).
- iv. Payment shall be made for Sl. No. 12 upon completion of this activity and acceptance by EPMC/OIL.
- v. Monthly payment for Sl. No. 13, 14, 15 & 16 shall be made on the basis of physical progress of the work of each activity as per approved schedule of activities (Bar Chart).
- vi. .Payment shall be made for Sl. No. 17 & 18 upon completion of these activities and acceptance by EPMC/OIL.





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- vii. Payment for Sl. 19 shall be made on monthly installments basis depending upon job progress as per approved schedule of activities (Bar Chart).
- viii. Payment for sl. 20 shall be after successful completion of 3 months of uninterrupted trouble free operation of the plant to the desired performance level & handing over OCS to OIL.

**\*\*\*\*End of PART-3 SECTION-IV\*\*\*\***

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**Construction of Oil Collecting Station(OCS) at Barekuri/  
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			Ex-Works Price/ FOB Price	Ex-Works Price/ FOB Price	Excise Duty	Sales Tax	Site work	Installation & Commissioning	Works Contract Tax	Any other taxes, duties, levies considered by bidder	Total Price (4+5+6+7+8+9+10= 11)	Total Price (4+5+6+7+8+9+10= 11)	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate
S No.	System / Descriptions	Estimated Quantity	In INR	Foreign currency .....							Total INR	Total Foreign Currency .....	INR	Foreign Currency .....
1	2	3	4 (i)	4 (ii)	5	6	7	8	9	10	11 (i)	11(ii)	12 (i)	12(ii)
A.0	MECHANICAL EQUIPMENTS													
A.1	CRUDE SEPARATION AND STABILIZATION SYSTEM													
A.1.1	INDIRECT BATH HEATERS	4												
A.1.2	INLET SEPARATORS	4												
A.1.3	CRUDE/CRUDE EXCHANGERS	2												
A.1.4	CRUDE OIL HEATERS	2												
A.1.5	EXPANSION TANKS	2												
A.1.6	UNTREATED CRUDE STORAGE TANK	1												
A.1.7	CRUDE CIRCULATION PUMPS	2												
A.1.8	LP SEPARATORS	2												
A.1.9	DEHYDRATORS	2												
A.1.10	CRUDE STORAGE TANKS	3												
A.1.11	TRUNK LINE KOD	2												
A.1.12	CRUDE TRANSFER PUMPS	4												
A.1.13	PW TRANSFER PUMPS	4												
A.1.14	CRUDE CHARGE PUMPS	2												
A.1.15	GAS COMPRESSOR PACKAGE	2												
A.1.16	BLOWERS	4												

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			Ex-Works Price/ FOB Price	Ex-Works Price/ FOB Price	Excise Duty	Sales Tax	Site work	Installation & Commissioning	Works Contract Tax	Any other taxes, duties, levies considered by bidder	Total Price (4+5+6+7+8+9+10= 11)	Total Price (4+5+6+7+8+9+10= 11)	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate
S No.	System / Descriptions	Estimated Quantity	In INR	Foreign currency .....							Total INR	Total Foreign Currency .....	INR	Foreign Currency .....
1	2	3	4 (i)	4 (ii)	5	6	7	8	9	10	11 (i)	11(ii)	12 (i)	12(ii)
<b>A.2</b>	<b>PRODUCED WATER TREATMENT SYSTEM</b>													
A.2.1	HYDROCYCLONES	2												
A.2.2	NUTSHELL FILTERS	4												
A.2.3	TREATED WATER STORAGE TANKS	3												
A.2.4	SKIMMED OIL TANK	1												
A.2.5	UNTREATED PRODUCED WATER STORAGE TANK	1												
A.2.6	TREATED WATER DISPOSAL PUMPS	2												
A.2.7	SKIM OIL CIRCULATION PUMPS	2												
A.2.8	PW CIRCULATION PUMPS	2												
<b>A.3</b>	<b>EFFLUENT WATER TREATMENT SYSTEM</b>													
A.3.1	EFFLUENT WATER COLLECTION TANK	1												
A.3.2	WATER TRANSFER PUMPS	2												
A.3.3	<b>FIRE WATER SYSTEM</b>													
A.3.4	FIRE WATER STORAGE TANKS	1												
A.3.5	JOCKEY PUMPS	2												
A.3.6	FIRE WATER PUMPS	3												
<b>A.4</b>	<b>INSTRUMENT AIR / UTILITY AIR SYSTEM</b>													
A.4.1	IA/UA COMPRESSOR PACKAGE	3												
A.4.2	UTILITY AIR RECEIVER	1												
A.4.3	IA DRYER PACKAGE	2												
A.4.4	INSTRUMENT AIR RECEIVER	1												

**BID PACKAGE****"Construction of Oil Collecting Station(OCS) at Barekuri/ Assam"**

			Ex-Works Price/ FOB Price	Ex-Works Price/ FOB Price	Excise Duty	Sales Tax	Site work	Installation & Commissioning	Works Contract Tax	Any other taxes, duties, levies considered by bidder	Total Price (4+5+6+7+8+9+10= 11)	Total Price (4+5+6+7+8+9+10= 11)	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate
S No.	System / Descriptions	Estimated Quantity	In INR	Foreign currency .....							Total INR	Total Foreign Currency .....	INR	Foreign Currency .....
1	2	3	4 (i)	4 (ii)	5	6	7	8	9	10	11 (i)	11(ii)	12 (i)	12(ii)
<b>A.5</b>	<b>WATER SUPPLY SYSTEM</b>													
A.5.1	INDUSTRIAL WATER FILTERS	2												
A.5.2	INDUSTRIAL WATER STORAGE TANK	1												
A.5.3	POTABLE WATER INLET FILTERS	2												
A.5.4	WATER MAKER	2												
A.5.5	UV STERILIZER UNIT	1												
A.5.6	POTABLE WATER STORAGE TANK	1												
A.5.7	POTABLE WATER PUMPS	2												
<b>A.6</b>	<b>GROUND FLARE SYSTEM</b>													
A.6.1	GROUND FLARE KO DRUM	1												
A.6.2	SEAL DRUM	1												
A.6.3	GROUND FLARE TIP	1												
A.6.4	GROUND FLARE RECOVERY PUMPS	2												
<b>A.7</b>	<b>MULTIPHASE FLOW METER &amp; TEST SEPERATOR</b>													
A.7.1	TEST SEPARATOR	1												
A.7.2	CRUDE OIL TEST TANK	1												
A.7.3	MULTI PHASE FLOW METER	1												
A.7.4	TEST TANK TRANSFER PUMP	2												
<b>A.8</b>	<b>CLOSED DRAIN SYSTEM</b>													
A.8.1	CLOSED DRAIN KNOCKOUT DRUM	1												
A.8.2	CLOSED DRAIN KOD TRANSFER PUMPS	2												

**BID PACKAGE****"Construction of Oil Collecting Station(OCS) at Barekuri/ Assam"**

			Ex-Works Price/ FOB Price	Ex-Works Price/ FOB Price	Excise Duty	Sales Tax	Site work	Installation & Commissioning	Works Contract Tax	Any other taxes, duties, levies considered by bidder	Total Price (4+5+6+7+8+9+10= 11)	Total Price (4+5+6+7+8+9+10= 11)	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate
S No.	System / Descriptions	Estimated Quantity	In INR	Foreign currency .....							Total INR	Total Foreign Currency .....	INR	Foreign Currency .....
1	2	3	4 (i)	4 (ii)	5	6	7	8	9	10	11 (i)	11(ii)	12 (i)	12(ii)
A.9	CAPTIVE POWER PLANT(GAS ENGINE GENERATOR)	2												
A.10	FUEL GAS SYSTEM													
A.10.1	Fuel gas Scrubber	1												
A.10.2	Fuel Gas Filter Separator	2												
A.10.3	Fuel Gas Super Heater	2												
A.11	CHEMICAL INJECTION SYSTEM	1 lot												
A.12	HOT OIL SYSTEM	1 lot												
A.13	FIRE FIGHTING SYSTEM (INCLUDING F & G)	1 lot												
B.0	PIPING AND VALVES	1 lot												
B.1	PIPES													
B.2	FITTINGS AND FLANGES													
B.3	MANUAL VALVES													
B.4	GASKETS AND FASTENERS													
B.5	MISCELLANEOUS													
C.0	STRUCTURALS WORKS	1 Lot												
C.1	SKIDS													
C.2	PIPE RACKS, PIPE SUPPORTS													
C.3	MAINTENANCE WORK SHOP													
C.4	WATCH TOWER													
C.5	OFFICE BUILDING													
C.6	SECURITY BUILDING													
C.7	MISCELLANEOUS													



**BID PACKAGE**

"Construction of Oil Collecting Station(OCS) at Barekuri/ Assam"



S No.	System / Descriptions	Estimated Quantity	Ex-Works Price/ FOB Price In INR	Ex-Works Price/ FOB Price Foreign currency .....	Excise Duty	Sales Tax	Site work	Installation & Commissioning	Works Contract Tax	Any other taxes, duties, levies considered by bidder	Total Price (4+5+6+7+8+9+10= 11) Total INR	Total Price (4+5+6+7+8+9+10= 11) Total Foreign Currency .....	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate INR	CIF (Indian) port component involved in Total Price (Col. 11) for issue of Essentiality Certificate Foreign Currency .....
1	2	3	4 (i)	4 (ii)	5	6	7	8	9	10	11 (i)	11(ii)	12 (i)	12(ii)
D.0	CIVIL WORKS	1 Lot												
D.1	LEVELLING/GRADING and ROADS													
D.2	SUB-STATION/E-HOUSE AND CONTROL ROOM													
D.3	FOUNDATIONS													
D.4	FLARE PIT													
D.5	MISCELLANEOUS													
E.0	ELECTRICAL WORKS	1 Lot												
E.1	CABLES													
E.2	SWITCH GEARS													
E.3	HIGH MAST, STREET LIGHTS AND LIGHT FITTINGS													
E.4	CABLE TRAYS													
E.5	MISCELLANOUS													
F.0	INSTRUMENTATION and TELECOM WORKS	1 Lot												
F.1	INSTRUMENTS													
F.2	CONTROL , SHUT DOWN AND SAFETY VALVES													
F.3	TELECOM ITEMS (PA, CCTV ETC)													
F.4	MISCELLANOUS													
G.0	COMMISSIONING	L.S												
G.0	MISCELLANEOUS	L.S												
	TOTAL													

Note: The Total price above shall be equal to Sl. 5 of Schedule of Prices Form SP0 ( Total LSTK amount quoted in Schedule of Rates)



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



# PROFORMAS





**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



**PROFORMA- A**

**INTEGRITY PACT**

Between

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

And

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

**Preamble :**

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

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

**Section 1 - Commitments of the Principal**

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

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



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

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

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

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

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



## BID PACKAGE

### "Construction of Oil Collecting Station(OCS) at Barekuri/ Assam"



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

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

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

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

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

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

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to 3 % of the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.

2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

**Section 5 - Previous transgression**

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

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

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

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

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

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

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



## BID PACKAGE

### "Construction of Oil Collecting Station(OCS) at Barekuri/ Assam"



2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.
3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/ Contractor/Subcontractor with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the Chairperson of the Board a substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
8. The word 'Monitor' would include both singular and plural.

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

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



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

**Section 10 - Other provisions**

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

-----  
For the Principal

-----  
For the Bidder/Contractor

Place : Duliajan

Witness1 : .....

Date :

Witness 2: .....

**&&&&**



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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**PROFORMA-B**

**BID FORM**

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

**Sub: IFB No.** \_\_\_\_\_

*Gentlemen,*

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

We undertake, if our Bid is accepted, to commence the work within (\_\_\_\_\_) days 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 closing and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

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

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

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

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

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

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

**Seal of the Bidder:**





**BID PACKAGE**  
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**PROFORMA-C**

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

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

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

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

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

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

**Seal of the Bidder:**

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



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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**PROFORMA-D**

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

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

WHEREAS, (Name of Bidder) \_\_\_\_\_ (hereinafter called "the Bidder") has submitted their offer Dated \_\_\_\_\_ for the provision of certain oilfield services (hereinafter called "the Bid") against OIL INDIA LIMITED, Duliajan, Assam, India (hereinafter called the Company)'s IFB No. \_\_\_\_\_. KNOW ALL MEN BY these presents that we (Name of Bank) \_\_\_\_\_ of (Name of Country) \_\_\_\_\_ having our registered office at \_\_\_\_\_ (hereinafter called "Bank") are bound unto the Company in the sum of (\*) for which payment well and truly to be made to Company, the Bank binds itself, its successors and assignees by these presents. SEALED with the common seal of the said Bank this \_\_\_\_ day of \_\_\_\_ 2014.

THE CONDITIONS of these obligations are:

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

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

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

SIGNATURE AND SEAL OF THE GUARANTORS \_\_\_\_\_  
Name of Bank & Address \_\_\_\_\_

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

\_\_\_\_\_  
(Signature, Name and Address)

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

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

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

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"

**PROFORMA - E****FORM OF PERFORMANCE BANK GUARANTEE**

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

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

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

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

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

This guarantee is valid until the date \_\_\_\_\_ .

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

Designation \_\_\_\_\_

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

Address \_\_\_\_\_

Witness \_\_\_\_\_

Address \_\_\_\_\_

Date .....

Place \_\_\_\_\_



**BID PACKAGE**  
**"Construction of Oil Collecting Station(OCS)**  
**at Barekuri/ Assam"**



**PROFORMA-F**

**AGREEMENT FORM**

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

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

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

WHEREAS, Company had issued a firm Letter of Award No. \_\_\_\_\_ dated \_\_\_\_\_ based on Offer No. \_\_\_\_\_ dated \_\_\_\_\_ submitted by the Contractor against Company's IFB 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 tender 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 Contract;



**BID PACKAGE**  
**"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"**



- (b) Section-II                      indicating the Scope of Work & Terms of Reference;  
(c) Section-III                     indicating the Special Conditions of Contract;  
(d) Section-IV                    indicating the Schedule of Rates & Payment.

3. In consideration of the payments to be made by the Company to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Company to provide the Services and to remedy defects therein in conformity in all respect with the provisions of this Contract.
4. The Company hereby covenants to pay the Contractor in consideration of the provision of the Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of this Contract at the times and in the manner prescribed by this Contract.

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

Signed, Sealed and Delivered,

For and on behalf of  
Company (Oil India Limited)

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

Name:

Name:

Status:

Status:

In presence of

In presence of

1.

1.

2.

2.



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



**PROFORMA-G**

**PROFORMA LETTER OF AUTHORITY**

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

Sir,

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

We \_\_\_\_\_ confirm that Mr. \_\_\_\_\_ (Name and address) as authorised to represent us to Bid, negotiate and conclude the agreement on our behalf with you against 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,

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

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

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

**Seal of the Bidder:**

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

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



**PROFORMA-H**

**AUTHORISATION FOR ATTENDING BID OPENING**

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

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

Sir,

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

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

Yours Faithfully,

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

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

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

**Seal of the Bidder:**

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



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## **TECHNICAL COMPLIENCE**

Bidder must furnish answers/ clarifications/confirmations of all the following queries and submit along with offer.

The Bidder shall indicate his reply in the space provided in the Technical Questionnaire. In case space provided is not adequate, the reply may be furnished separately under suitably numbered annexure / attachments duly referred against the comment / query.

The Compliance Statements / Queries are required to be categorically confirmed / answered by the bidder and the completely filled in Tech Questionnaire shall be submitted together with the Bid.

**Bidder's Signatures, with Stamp and Date**

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**1.0 GENERAL/CIVIL/STRUCTURAL**

<b>SNo.</b>	<b>COMPLIANCE STATEMENT/ QUERY</b>	<b>BIDDER'S CONFIRMATION/ ANSWER</b>
1	Confirm that all requirements as per standards and specification attached with the tender document shall be complied.	
3	Confirm that the area has been physically surveyed and well acquainted with, collected relevant site information and all necessary data required for completion of works from other contractors, OIL/ EPMC , site, various approving authorities etc.	
3	Confirm that filling certain pockets of graded areas and final micro grading after completion of works to the final desired level is in bidder's scope of work	
4	Confirm that all approaches for construction, erection, maintenance, emergency evacuation, fire fighting etc. are in bidder's scope of work	
5	Confirm that required earth for filling shall be arranged by the bidder on his own, for all leads and lifts, from anywhere outside the complex and borrow areas shall be approved by OIL/ EPMC. Bidder shall also dispose surplus earth/ debris & unserviceable material on his own, for all leads and lift outside the refinery complex.	
6	Confirm that commissioning spares and two years operational spares for safety items including shower & eye wash are included in your offer.	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
7	All fire fighting equipments shall be I.S.I/ TAC approved. Confirm compliance. And provide two years operational spares for firefighting equipments wherever applicable.	
8	Bidder must ensure the exact location of tapping points during detail engineering, which requires connections/ hook ups.	
9	Confirm that all protection /supports needed for the existing services shall be provided by the bidder and any damage to the same shall be rectified/ made good at no extra cost.	
10	Confirm that all temporary barricading, fencing with sprinkler system required during construction activities shall be provided by the bidder and shall be dismantled/ disposed after successful completion of project.	
11	Confirm that the contractor shall be responsible to complete all work for the plant in all respects as per specifications and standards even if not specifically covered in scope of work.	
12	Bidder to confirm that following special considerations for steel & concrete structures have been take care of: Requirement of surface preparation, primer and finish paint shall be as per approved painting specification. Normal corrosive environment shall be considered while referring to approved painting specification.	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
13	<ul style="list-style-type: none"><li>➤ Confirm that deviations / implied deviations has been brought out in the specified format for statement of exceptions and deviations.</li><li>➤ Confirm that the scope of supply and work considered in the Bid proposal is in total compliance to the Bid specification requirement including attached specification with respect to all general civil works.</li><li>➤ Any deviations/ deletions/ corrections brought out by the Bidder elsewhere in the body of the offer (on equipment data sheet, specs, design note, design basis, assumptions, considerations etc.,) will not be taken cognizance of and all such deviations shall be deemed to have been withdrawn by the bidder. The deviation if any shall be furnished in the specified format as stipulated by the bid.</li></ul>	
14	Bidder to confirm that all subcontractors selected by them shall be subject to OIL/ EPMC approval.	
15	Bidder undertakes to furnish schedule of submission of dwgs. and documents and schedule of inputs required for review, during kick-off meeting. Delay in review of these dwgs/documents due to non-adherence to the agreed schedule or not following sequential submission as specified in elsewhere in the bid document shall be the contractor's responsibility. Bidder to confirm compliance.	

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**2.0 MECHANICAL(STATIC/ROTATIC EQUIPMENTS)**

<b>SNNo.</b>	<b>COMPLIANCE STATEMENT/ QUERY</b>	<b>BIDDER'S CONFIRMATION/ ANSWER</b>
1	Confirm that all requirements as per standards and specification attached Bid Package shall be complied with in totality without any Technical Deviation. Bidder to ensure that his offer is complete in first instance itself	
2	Confirm that all bought out equipment/ components shall be procured only from the approved vendors given in approved Vendor List or those meeting the Bid qualification criteria (BQC).	
3	Confirm inclusion of Mandatory Spares as per the requirements of the bid document.	
4	Confirm that installation and guarantees of complete unit are included in the Contractor's scope of work.	
5	Confirm that all sub-contractor's selected would be subject to OIL/EPMC approval and meeting the BQC requirements. Details as per BQC shall be furnished along with the offer. Confirm Compliance.	
6	Any deviations/deletions/corrections made elsewhere in the body of the bid (on equipment data sheet, specs etc.) will not be taken cognizance of and all such deviations shall be deemed to have been withdrawn by the bidder. Confirm compliance.	

**BID PACKAGE**

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
7	Confirm that the equipment/ package supplied shall be from one of the approved vendors given in the APPROVED VENDOR LIST attached elsewhere in the bid document.	
8	Duly filled in equipment data sheets, performance data for the selected vendor/ equipment model shall be subject to OIL/EPMC approval, during detail engineering. Confirm compliance.	
9	Confirm that wherever the <b>Material Of Construction</b> of equipment components have been specified in the Bid specification, same or superior MOC shall be offered.	
10	Bidder shall furnish the following documents along with the bid: Deviations, if any against the equipment data sheets, applicable equipment specifications shall be duly consolidated at one place (under exceptions/ deviation list). In case no deviations are furnished, it shall be construed that bidder's proposal is in total compliance to the bid document requirements.	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
11	Bidder shall note that vendor specific deviations to design codes (API/ NEMA/ASME/TEMA etc.) shall not be considered at this stage and shall be subject to review and approval of OIL/EPMC during detail engineering. However bidder shall note that deviations to only those requirements of design codes, which are technically infeasible to meet, shall be permitted provided suitable justification for the same is furnished. Deviations, which can be withdrawn with extra cost and or time implication, shall not be permitted.	
12	Confirm that all equipment shall be ordered on the Vendors only after: (a) Approval of the Purchase Requisition by OIL/EPMC as specified. Ensuring equipment meeting the acceptance criteria specified in the bid document by furnishing duly filled in EXPERIENCE RECORD FORMAT attached with the bid document which shall be subject to OIL/ EPMC approval. Confirm Compliance.	



**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
13	Confirm that the <b>Scope of supply and work</b> considered in the Bid proposal is in total compliance to the Bid specification requirement including Scope of Supply/ Work document, Data Sheets, Job specifications, Process Package including P&IDs, Process design basis, etc. with respect to all rotating equipment items and maintenance facilities.	
14	Confirm that all <b>Inspection &amp; Tests</b> as required for each equipment, as per the Data sheets, specs, Process Package and as per specification and Codes attached and referred to have been included by the bidder in his proposal.	
15	Bidder shall obtain and submit a list of <b>Operation and Maintenance spares required for Two Year Normal Operation</b> (indicating the price against each spare) as recommended by the equipment manufacturer / bidder over and above the Insurance spares specified in the bid specification. Confirm Compliance.	
16	Confirm that <b>Erection &amp; Commissioning Spares</b> as required for each equipment have been included by the bidder in his proposal. Further, in case any spare is consumed over and above the quoted commissioning spares during start-up/ commissioning, the same shall be supplied free of cost.	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
17	Confirm that <b>Special Tools &amp; Tackles</b> , as required for each Equipment have been included by the Bidder in his proposal.	
18	Confirm that all <b>consumables, chemicals, lubricants etc.</b> for initial charge for commissioning and site and Performance guarantee run have been included in the Bidder's proposal.	
19	Confirm that requirements of all lubricants for Six months operation of the equipment after first fill is considered.	
20	Confirm that all <b>Drawings / Data requirements</b> as per specifications and codes attached and referred to have been included in the bidder's proposal.	

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**3.0 PIPING**

<b>SNo.</b>	<b>COMPLIANCE STATEMENT/ QUERY</b>	<b>BIDDER'S CONFIRMATION/ ANSWER</b>
1	<p>Bidder is informed that the detailed offer for piping i.e any drawings, documents, data sheets, is not required at the stage of bidding and shall not be reviewed or taken cognizance of at this stage. Accordingly, the bidder shall furnish only the following documents along with the bid:</p> <p>a) This Technical Questionnaire with categorical confirmations against each of the clauses.</p> <p>b) Deviation, if any, against the scope of work &amp; supply, Piping design basis, PMS, VMS &amp; other applicable specifications and Codes shall be duly consolidated at one place only. (Under Exceptions / Deviations list). In case no deviations are furnished, it shall be construed that Bidder's proposal is in total compliance to Bid document requirements.</p>	
2	<p>Any deviations/deletions/corrections made elsewhere in the body of the bid document, will not be taken cognizance of and all such deviations shall be deemed to have been withdrawn by the bidder. Confirm Compliance.</p>	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
3	Confirm that Piping items shall be ordered on the Vendors only after: (a) Review of the Purchase Requisition by OIL/EPMC (for Purchase requisitions under Review category as per list of deliverables )	
4	Confirm that the Bidder has included mandatory spares as specified in the bid specifications for Piping.	
5	Confirm that Erection and Commissioning spares as required for piping have been included, by the bidder, in his proposal.	
6	Confirm that Special Tools & Tackles, as required for piping have been included by the bidder in his proposal.	
7	Bidder to confirm compliance to Piping Material Specifications and Valve Material Specifications given in the bid document.	
8	Confirm that the requirement of updating of piping material specification and valve material specification described have been understood. Confirm compliance.	
9	Confirm compliance to Piping design basis	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
10	Location of all the equipments are fixed based on P&ID requirement and flow sequence in the Equipment Layouts. Whether equipment layout drawings have been seen thoroughly and deviations if any have been indicated in the bid.	
11	Equipment elevations and distances are tentative only. Bidder to develop detailed Equipment Layout Bidder to confirm compliance.	
12	Information regarding vendor purchased items is under hold. Bidder to furnish the information of the same and incorporate the same in equipment layout drawings. Confirm compliance.	
13	Confirm that the requirements of approval of Equipment Layout have been clearly understood. Bidder to confirm compliance.	
14	Confirm compliance for submission of details of stress calculations for critical lines before the start of fabrication.	
15	All piping materials shall be procured from approved Vendor List for piping items. Specific OIL/ EPMC approval shall be obtained in advance for additional/alternate vendors proposed by Bidder. Confirm compliance.	

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<b>SNNo.</b>	<b>COMPLIANCE STATEMENT/ QUERY</b>	<b>BIDDER'S CONFIRMATION/ ANSWER</b>
16	Confirm that technical requirements for purchase of piping items as per piping design basis. This shall be the basis for bidder's detailed specification for procurement. Bidder to confirm compliance.	
17	Confirm that CAESAR-Version 6.1 or AUTOPIPE software will be used for stress analysis.	
18	Confirm that the sequence for submission of Piping deliverables shall be strictly as per approved master document schedule and that the prerequisites should be satisfied prior to submission of a document/ drawing. Deviation if any shall be stated in the bid.	
19	Confirm that there are no deviations to scope of work, technical specifications of bid document. Bidder undertakes to comply with all the provisions of bid documents and agrees that deviations not listed separately shall be considered withdrawn.	
20	Confirm compliance to Deviations permit procedure	
21	Understand the requirements of review of critical documents and confirm that the list shall be submitted during the kick off meeting.	

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SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
22	Understand the requirements of Proven track record for Piping design/detail engineering activities and confirms that the details required are submitted with the bid.	
23	Understand the requirements of revisions in drawing/documents . Confirm compliance.	
24	Confirm compliance to scope and requirements of underground piping	
25	Note the requirement of Positive Material Identification. Confirm compliance.	
26	Note the requirement of special spacers and blinds for high-pressure service. Confirm compliance.	
27	Note the special requirement of Bolt Tensioning and Bolt Torques. Confirm that the deliveries shall be submitted as required.	





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**4.0 ELECTRICAL**

SNo.	COMPLIANCE STATEMENT/ QUERY	BIDDER'S CONFIRMATION/ ANSWER
1	Confirm full compliance to the following: a) Scope of work b) Design Basis/philosophy c) Job specifications & data sheets	
2	Confirm that technical particulars of each MV motor of the package have been furnished on MV Motor Data sheet format enclosed.	
3	Confirm that all the electrical equipments offered under this package shall be suitable for the site conditions as specified.	
4	Confirm that you have furnished filled up electrical load data sheet format enclosed with the package.	
5	Confirm that all electrical equipment shall be provided with valid type test certification from agency such as CMRI / BASEEFA / UL / FM / PTB /LCIE or equivalent. Also confirm that all equipment for hazardous area shall have valid statutory approval from DGMS.	
6	All FLP and WP cable glands shall be provided for each electrical equipment.	
7	Confirm compliance to makes of the electrical equipments/ components as per electrical vendor list attached	

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**5.0 INSTRUMENTATION**

<b>SNo.</b>	<b>COMPLIANCE STATEMENT/ QUERY</b>	<b>BIDDER'S CONFIRMATION/ ANSWER</b>
1	Confirm that the scope of work shall be compliance in all respects as specified in the tender document and all other equipment, materials and work not explicitly mentioned but nevertheless required to fulfil the functional requirements shall be deemed to be included in the scope of Contractor with no additional cost and time implication to the OIL	
2	Confirm that the scope of Supply of Mandatory Spares for instrumentation shall be in accordance with of tender document.	
3	Confirm that the scope of Supply / Work for Instrumentation shall be in accordance with the tender document.	
4	Confirm compliance to the Instrumentation Design Basis / Philosophy as per of tender document.	
5	Confirm compliance to the Instrumentation Job Specification as per tender document.	
6	Confirm compliance to the Instrumentation Document for Review / Approval as per tender document.	

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**6.0 PACKAGE EQUIPMENT**

<b>SNo.</b>	<b>COMPLIANCE STATEMENT/ QUERY</b>	<b>BIDDER'S CONFIRMATION/ ANSWER</b>
1	Confirm that all requirements as per scope of work, design basis and philosophy, Job specifications, standards and specification attached in this bid Package shall be complied without any Technical Deviation. Bidder to ensure that his offer is complete in first instance itself	
2	Confirm that all bought out equipment's shall be procured only from any of approved vendors approved Vendor List.	
3	Confirm inclusion of Mandatory Spares as per the Specification.	
4	Confirm inclusion of special tools and tackles as required.	
5	Confirm that installation and guarantees of each equipment are included in Contractor's scope of work.	
6	Confirm that all Sub-Vendor / Supplier selected by Contractor would be subject to OIL/ EPMC approval and meeting the equipment qualification criteria Requirements. Details for equipment qualification criteria shall be furnished along with the offer. Confirm Compliance.	
7	Note that the scope of work consists of units which are located at different locations. Confirm that all requirements for each location is taken care without any deviations	



# **APPROVED VENDOR LIST**



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**MECHANICAL/PROCESS**

S. No	EQUIPMENT	VENDOR
1	<b>HEATER TREATERS &amp; BATH HEATERS</b>	NATCO – USA
		JOHN PICKLE –USA ; National Oilwell Varco, USA
		JOY INDUSTRIES –USA
		MACKENZIE HYDROCARBONS –AUSTRALIA
		GASTECH –USA (for heater treater only)
		GASTECH PROCESS ENGG –INDIA (for bath heater only)
		BGR ENERGY SYSTEMS LTD, INDIA
		MULTITEX FILTRATION ENGRS LTD. (for bath heater only)
2	<b>SEPARATORS (OIL &amp; GAS)</b>	NATCO, USA
		KVAERNER PROCESS SYSTEM (AKER-KVAERNER GROUP)
		BURGESS –MANNING INC., USA
		KOCH –GLITSCH LP, USA
		GASTECH, USA
		GASTECH PROCESS ENGG – INDIA
		ACOUSTICS INDIA PVT LTD
		MULTITEX FILTRATION ENGRS LTD.
		LAKSEL EPS TECHNOLOGIES PTE LTD., SINGAPORE
		MACKENZIE HYDROCARBONS PTY., AUSTRALIA
		BGR ENERGY SYSTEMS LTD, INDIA
		GRAND PRIX ENGINEERING PVT LTD
		DYNA-THERM CORPORATION
3	<b>PRESSURE VESSELS AND SHOP FABRICATED TANK</b>	ACOUSTICS INDIA PVT LTD , TRICHY
		BHPV, VIZAG
		THERMAX, PUNE
		INDIA TUBE MILLS, MUMBAI
		INDUS ENGG. CO., MUMBAI
		MISTRY PRABHUDAS MANJI, MUMBAI
		NEWTON ENGG., VADODARA
		PATEL FILTER, AHMEDABAD
		ANUP, AHMEDABAD
		G.R. ENGINEERING, MUMBAI
		LARSON AND TOUBRO, HAZIRA
		ISGEC, YAMUNA NAGAR
		S.V.TANKS AND VESSELS, Mumbai
		BGR ENERGY SYSTEMS LTD, INDIA
		KILBURN, MUMBAI
		R.D ENGINEERS MUMBAI
		A K ENTERPRISES KOLHAPUR
4	<b>VESSELS-ASME “U”</b>	ACOUSTICS INDIA PVT LTD



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	<b>CODE STAMPED</b>	L & T, HAZIRA/ PAWAI INDIA. R.D.ENGINEERS, MUMBAI INDIA BGR ENERGY SYSTEMS LTD, INDIA KILBURN ENGG.LTD, MUMBAI, INDIA BHEL, TRICHY, INDIA MIS SHARJAH. GMMOS DUBAI SUNGJIN KOREA FAI, SPA, BERGAMO INDCON PROJECTS & EQUIPMENT LTD., NEW DELHI MULTITEX FILTRATION ENGINEERS LTD. NEW DELHI
5	<b>STAINLESS STEEL CLAD VESSEL</b>	ABB- ABL ANUP BHEL, TRICHY BHPV, VIZAG GR ENGINEERING, BANGALORE GODREJ, MUMBAI ISGEC, YAMUNA NAGAR LARSEN AND TOUBRO, HAZIRA / POWAI LLOYDS STEEL INDUSTRIES, MUMBAI WALCHAND ABNAGAR INDUSTRIES
6	<b>HEAT EXCHANGERS-SHELL-TUBE TEMA CODE</b>	ACOUSTICS INDIA PVT LTD , TRICHY BHPV, VISAKHAPATNAM EBM –HUDSON, ITALY IMB (INDUSTRIE MECCHANIE DE BANGNALO SPA) , ITALY NUOVO PIGNONE SPA, ITALY OLMI SPA, ITALY HHI, KOREA BELLELI ENERGY SRL, ITALY L&T BELCH ENERGY, SRL GEI HAMON INDUSTRIES LTD, BHOPAL (FOR GAS COOLERS) FAI, SPA, BERGAMO BUKIT FRASER THERMAL TECHNOLOGY SDN BHD, MALAYSIA GODREJ & BOYCE MFG. CO. LTD GR ENGINEERING WORKS, BANGALORE BGR ENERGY SYSTEMS LTD, INDIA ISGEC, TEMA INDIA LTD. INDCON PROJECTS & EQUIPMENTS LTD
7	<b>QUICK OPENING CLOSURE</b>	MULTITEX FILTRATION ENGINEERS LTD; V K Vikram, Vadodara

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	<b>(FILTER/SEPARATOR)</b>	GD ENGINEERING; National oilwell Varco, USA PECO FACET
8	<b>ROTARY POSITIVE DISPLACEMENT PUMP</b>	TUSHACO PUMPS ROTO PUMPS PVT. LTD, DELHI MAAG ALBANY VIKING HAYWARD TAYLER SHOTHERT & PITT
9	<b>PUMP-ROTARY.SCREW</b>	NETZCH TECHNOLOGIES INDIA PVT LTD Alektion Engg Industries Pvt Limited ROTO PUMPS PVT LTD TUSHACO PUMPS LTD UT PUMPS & SYSTEMS PVT LTD ALLWEILER AG BORNEMANN PUMPEN FLOWERVE CORPORATION (FORMERLY I571) IMO AB. IMO INDUSTRIES INC (USA) LEISTRITZ AG PLENTY MIRRORLESS PUMPS POMPE VERGANI SPA WARREN PUMPS INC ALEKTON ENGG INDUSTRIES PVT LTD ROTO PUMP LTD TUSHACO PUMP PVT LTD UT PUMPS AND SYSTEMS PVT LTD
10	<b>PUMP-CENTRIFUGAL</b>	BHARAT PUMPS & COMPRESSORS LTD FLOWERVE INDIA CONTROLS (P) LTD PUMP DIVISION KSB PUMPS LTD (POONA) KIRLOSKAR EBARA PUMPS LTD AKAY INDUSTRIES, HUBLI MATHER AND PLATT, PUNE SULZER PUMPS INDIA LIMITED DMW CORPORATION(JAPAN) ARAI PUMP MANUFACTURING COMPANY LTD CLYDE UNION LIMITED EBARA CORPORATION (JAPAN) FLOWERVE CORPORATION FLOWERVE (THOMPSONS KELLY & LEWIS PTY LTD) GOULDS PUMPS INC KSB AKTIENGESSELLSCHAFT RUHRPUMPEN GMBH ; National oilwell Varco, USA



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		SHIN NIPPON MACHINERY CO LTD
		SULZER PUMPS (US) INC
		SULZER PUMPEN DEUTSCHLAND GMBH
		WEIR GABBIONETA
		WEIR MINERALS NETHERLANDS BV
		NUOVO PIGNONE SPA (ITALY)
11	<b>MAIN INJECTION/ MAIN OIL LINE PUMPS</b>	FUJI ELECTRIC, JAPAN
		MATHER PLATT, UK
		LOHER AG, GERMANY
		ANSALDO, ITALY
		PARSON PEEBLES, UK
		SIEMENS, GERMANY
		WEIR PUMPS
		EBARA PUMP
		POMPES GUINARD
		DAVID BROWN
		SULZER PUMPS (INDIA) LTD.
		DMW CORPORATION, JAPAN
12	<b>FIRE WATER PUMP-As Per NFPA-20 and Diesel Engine UL Listed</b>	WEIR PUMPS
		POMPES GUINARD
		FLUID POWER
		PEERLESS PUMPS
		INGERSOLL RAND
		WORTHINGTON PUMPS
		THOMPSON PUMPS
		KSB PUMPS
		EBARA CORPORATION
		SPP
		MATHER AND PLATT
13	<b>COMP.HIGH PRESSURE (Plant &amp;Instrument Air service)</b>	LEOBERSDORFER MASCHINFABRIK AG (LMF)
		SIAD MACCHINE IMPINTI SPA
14	<b>AIR DRYER</b>	CHEMINEERS
		CLEAN AIR
		DEL AIR INDIA PVT. LTD.
		MIRCH MIREX
		INDCON PROJECTS & EQUIPMENT LTD., NEW DELHI
15	<b>PUMP-RECIPROCATING</b>	MILTON ROY PVT.LTD.
		SHAPOTOOLS
		SWELORE ENGG. (P) LTD
		V.K. PUMPS INDUSTRIES
		ALLDOS SOSIERTECHNIK GMBH
		BRAN + LUEBBE LTD; National oilwell Varco, USA

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		DOSAPRO MILTON ROY
		FLOWSERVE CORPORATION
		NIKKISO CO LTD
		ORLITA GMBH & CO KG
		PERONI POMPE SPA
		PULSA FEEDER (UNIT OF INDEX CORP)
		WEIR MINERALS NETHERLANDS BV
		WILLIAMS INSTRUMENT COMPANY INC
		LEWA, GERMAY
		MATZ PUMPS, AHMEDABAD
		GREAVES COTTON & CO. LIMITED, NEW DELHI
		ASIA LMI PVT LIMITED, MADRAS
		UNION, USA
		ALFA LAVAL
		NUOVO PIGANONE, UK.
16	<b>SCREW AIR COMPRESSOR</b>	TIDE AIR
		ATLAS CAPCO
		WORTHINGTON TURBODYNE
		NORWALK
		COMPARE
		INGERSOLL RAND
		ELGI
		KIRLOSKAR PNEUMATICS
		AIRPACK
		BELLIES
		KOBE STEEL LTD
		HOWDEN PROCESS COMPRESSORS
		NEUMAN & ESSAR
		AERZENER
		ATLAS COPCO CREPILLE
		DRESSER-RAND
17	<b>RECIPROCATING AIR COMPRESSOR</b>	INGERSOLL RAND
		KIRLOSKAR PNEUMATICS CO.,
		ELGI.
		CONSOLIDATED PNEUMATICS TOOL CO. (I) LTD.
		BHARAT PUMPS & COMPRESSORS LTD.,
		ATLAS COPCO
		BURCKHARDT COMPRESSION (INDIA) PVT LTD
		DRESSER RAND INDIA PVT LTD
		ANDREAS HOFER HOCHDRUCKTECHNIK GMBH
		BURCKHARDT COMPRESSIN AG
		DRESSER RAND COMPANY
		KOBE STEEL LTD

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		LEOBERSDORFER MASCHINENFABRIK AG (LMF)
		NEUMAN & ESSER USA INC
		NUOVO PIGNONE SPA (ITALY) (GE OILCO.)
		PETER BROTHERHOOD LTD (DRESSER RAND CO)
18	<b>DRIER-AIR/GAS</b>	CICB-CHEMICON
		DELAIR INDIA PVT LTD
		INDCON PROJECTS & EQUIPMENTS LTD
		LLOYDS STEEL INDUSTRIES LTD
		SUMMITS HYGRONICS PVT LTD
		TRIDENT PNEUMATIC PVT LTD
		ULTRAFILTER (INDIA) PVT LTD
19	<b>RECIPROCATING HYDROCARBON GAS COMPRESSORS</b>	BPCL, NAINI
		CATERPILLAR
		COOPER ENGINEERING SERVICES, OHIO
		ENERFLEX LTD., CANADA
		INGERSOLL RAND, INDIA
		HANOVER COMPRESSORS CO., USA
		KIRLOSKAR PNEUMATICS.
		STEWART & STEVENSON, HONGKONG
		WEATHERFORD GLOBAL COMPRESSION SERVICES, TULSA
		BURCKHARDT COMPRESSION (INDIA) PVT LTD
		DRESSER RAND INDIA PVT LTD
		ANDREAS HOFER HOCHDRUCKTECHNIK GMBH
		ATLAS COPCO CREPELLE
		BURCKHARDT COMPRESSIN AG
		DRESSER RAND COMPANY
		HOWDEN BC COMPRESSORS
		HOWDEN THOMASSEN COMPRESSORS (HOWDEN GROUPE)
		IHI CORPORATION
		KOBE STEEL LTD
		LEOBERSDORFER MASCHINENFABRIK AG (LMF)
		NEUMAN & ESSER USA INC
		NUOVO PIGNONE SPA (ITALY) (GE OILCO.)
		PETER BROTHERHOOD LTD (DRESSER RAND CO)
20	<b>BLOWER</b>	SWAN PNEUMATIC
		KAY INTERNATIONAL
21	<b>HDPE TANK</b>	SINTEX
		BHAVI PLAST PVT. LTD., MUMBAI
		PRANITA ENTERPRISES, MUMBAI (or Any Other BIS Approved Make)
22	<b>STRAINER (FAB/ CAST/ FORGED)</b>	J.N. MARSHAL & CO.
		OTOKLIN FILTERS OF INDIA LTD.
		GREAVES COTTON & CO.

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
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		MAZDA POWER ENGINEERS
		VIRAL ENGINEERS
23	CS PLATE	TISCO
		SAIL
		JINDAL STEEL
		ESSAR STEEL
24	FIRE FIGHTING SYSTEM	MATHER & PLATT FIRE SYSTEMS LTD.
		VIJAY FIRE PROTECTION SYSTEM LTD.
		VIMAL FIRE CONTROL PVT. LTD.
		NITIN FIRE PROTECTION INDUSTRIES LTD.
		STEELAGE INDUSTRIES LTD.
25	PRESSURE FILTER	ION EXCHANGE, INDIA
		ARUDRA, INDIA
		LARSEN AND TOUBRO LIMITED, MUMBAI
		GEO MILLER & COMPANY PVT. LIMITED, INDIA
		HINDUSTAN DORR OLIVER, INDIA
		PARAMOUNT POLLUTION CONTROL LIMITED, INDIA
		THERMAX, INDIA
		IAEC, INDIA
		DRIPLEX, INDIA
26	CARTRIDGE TYPE FILTER	MULTITEX FILTRATION, NEW DELHI
		OTOKLIN FILTERS, MUMBAI
		FITTECH PHARMALAB PVT. LIMITED, NEW DELHI
		SUPER FLO FILTERS, MUMBAI
		GRAND PRIX PVT. LIMITED, NEW DELHI
		FILTRATION ENGINEERING (I) PVT LTD
		GUJARAT OTOFILT
		PALL INDIA PVT LTD
		PETROMAR ENGINEERED SOLN.P LTD-FORM.R166
		ULTRAFILTER (INDIA) PVT LTD
		FAUDI GMBH
		FILTREX S.R.L.
		FORAIN S.R.L.
		JFC CORPORATION
		PECO FACET
		PLENTY FILTERS
27	FILTER SEPARATOR	GRAND PRIX ENGINEERING PVT LTD
		MULTITEX FILTRATION ENGINEERS LTD
		PETROMAR ENGINEERED SOLN.P LTD-FORM.R166
		FAUDI GMBH
		FORAIN S.R.L.
		PECO FACET
		PLENTY FILTERS

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
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28	<b>FILTER-BASKET</b>	FILTRATION ENGINEERING PVT LTD
		FLASH POINT EQUIPMWNTS PVT LTD
		GRAND PRIX ENGINEERING PVT LTD
		GUJARAT OTOFILT
		MULTITEX FILTRATION ENGINEERS LTD
		PETROMAR ENGEERED SOLN.P LTD-FORM.R166
		FILTREX S.R.L
		FLUID ENGINEERING
29	<b>CHEMICAL STORAGE &amp; DOSING SYSTEM</b>	MILTON ROY INDIA USA, FRANCE, UK
		NIKKISO, JAPAN
		CED PROJECT LTD., BUCKINGHAM SHINE UK
		BRAN & LUEBBE (GB) LTD. UK
		KAY INTERNATIONAL
30	<b>DOSING PACKAGE (SKID MOUNTED)</b>	ENPROINDUSTRIES PVT LTD
		MISTON ROY INDIA PVT LTD
		SWELORE ENGG. (P) LTD
		V.K.PUMPS INDUSTRIES
		PETRONASH FZE
31	<b>PAINT</b>	ASIAN PAINT
		BERGER PAINT
		GOODLAS NEROLAC
		JOHNSON NICHOLSON
		SHALIMAR
		MUMBAI PAINT
		ICI PAINT
		NE PAINT UDYOG
32	<b>HOT/ EOT CRANE</b>	Simplicity Project Pvt Ltd, New Delhi.
		ARMSEL MHE PVT LTD.
		AVON CRANES PVT., LTD.
		EDDY CRANES ENGINEERS PVT. LTD.
		SAYAJI IRON & ENGINEERING CO. PVT. LTD.
		BATLIBOI AND COMPANY
		HERCULES HOIST LTD.
		KALINGA ENGINEERS LIMITED
		KHANDELWAL, MUMBAI
		LIFTING EQUIPMENT ACCESSORIES
		PULLEYING AND LIFTING MACHINE
		SIKKA INTER PLANT SYSTEMS LTD.
		STEELLA'S EQUIPMENT PVT. LTD. CHENNAI
		TAK MACHINERY AND LEASING LIMITED
		TRACTEL TIRFOR INDIA PVT. LTD.
		W.H. BRADY.
		GRIP ENGINEERS PVT LTD

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"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		MEEKA MACHINERY PVT LTD
		SAFEX ELECTROMECH PVT LTD
		ANUPAM INDUSTRIES LIMITED (ANAND)
		CONSOLIDATED HOISTS PVT LTD
		FURNACE AND FOUNDRY EQUIPMENT CO.
		HEAVY ENGINEERING CORPORATION LTD
		TATA STEEL GROWTH SHOP
		WMI CRANE LIMITED
		STAHL CRANE SYSTEMS GMBH
		Safex Energy Pvt Limited
33	CHAIN PULLEY BLOCK	Simplicity Projects Pvt Ltd, New Delhi.
		INGERSOLL RAND USA.
		BEEBE INTERNATIONAL INC USA.
		DRESSER USA
		AJMERIA INDIA.
		KITO JAPAN.
		AIR DYNE UK
		J BARNESLEY UK
		ANSEL JONES UK
		HERCULES HOISTS LTD
		TRACTEL TIRFOR (I) PVT LTD
		W.H.BRADY & CO.LTD
34	FLARE STACK	ADOR WELDING LTD.
		AIROIL FLARE GAS (INDIA) LTD.
		COMBUSTION TECHNOLOGIES, PUNE
		ITAS
		KALDAIR
		SAMIA
		CALLIDUS TECHNOLOGIES, USA
		HAMWORTHY COMBUSTION ENGINEERING SRL
		JOHN ZINK INTERNATIONAL LUXEMBOURG SARL
		NAO ONC
		ZEECO INC
35	MIXER AND AGITATOR	MACNEIL AND MAGOR, MUMBAI
		MIXRITE CORPORATION, MUMBAI
		STANDARD ENGINEER, MUMBAI
		REMI, MUMBAI
36	RECIPROCATING PUMP	BPCL, NAINI, ALLAHABAD
		DAVID BROWN
		PERONI POMPE SPA, ITALY
		WEATHERFORD, HOUSTON, TEXAS,USA
		NATIONAL OIL WELL CO., USA
		DMW CORPORATION, JAPAN

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"Construction of Oil Collecting Station(OCS)  
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		GOMA ENGINEERING PVT LTD. THANE
		HIRONISHA SYSTEM PVT LTD , AHMEDABAD
		DAWSON DOWNIE LAMONT LTD
		FLOWERVE CORPORATION
		NIKKISO CO LTD (NIKKISO K.K.)
		WEIR MINERALS NETHERLANDS BV
37	<b>PUMP-AIR OPERATED DIAPHRAGM</b>	HI-LIFE MANUFACTURING CO.
		MONIBA ANAND ELECTRICALS PVT LTD
38	<b>CENTRIFUGE</b>	PANNWALT, INDIA
		ALFA-LAVAL, INDIA
		HUMBOLDT, INDIA
39	<b>OIL SKIMMER (DRUM / DISC TYPE)</b>	BP AGENCIES (INDIA) LTD.,
		CECA, FRANCE
		DISCOIL, ITALY
		LIGHTNIN, USA
		SKIMOVEX, HOLLAND
		ENGINEERING SPECIALITIES INC, USA
40	<b>AIR FLOATATION UNIT (DAF)</b>	PV, HOLLAND
		WEMCO, UK
		CECA, FRANCE
		ENVIREX, USA
		MONOSCAP INC., USA
		SKIMOVEX, HOLLAND
		ENGINEERING SPECIALITIES INC.,USA
		ADEC ENGINEERING, USA
		K-PACK INTERNATIONAL
		ESMIL WATER SYSTEMS LIMITED
		PETROLITE
		PARAMOUNT POLLUTION CONTROL LIMITED, BARODA
		TRIVENI ENGINEERING, NEW DELHI
		HINDUSTAN DORR OLIVER, INDIA
		GEO MILLER INDIA
		VOLTAS, INDIA
41	<b>PLATE INTERCEPTOR</b>	JOHN BROWN, UK
		NIJHUIS, HOLLAND
		WEMCO. UK
		CECA, FRANCE
		P V, HOLLAND
		UTB, SWITZERLAND
		LANCY INTERNATIONAL, USA
		ENGINEERING SPECIALITIES INC.,USA
		PEILKENROD, UK
		HYDE, UK



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"Construction of Oil Collecting Station(OCS)  
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		SKIMOVEX, HOLLAND
		ADEC ENGINEERING, USA
		KROFTA ENGINEERING, USA
		K-PACK INTERNATIONAL
		PARAMOUNT POLLUTION CONTROL LIMITED, BARODA
		TRIVENI ENGINEERING, NEW DELHI
42	<b>OIL SKIMMER (SLOTTED PIPE TYPE)</b>	HINDUSTAN DORR OLIVER, INDIA
		LIGHTNIN, USA
		GEOMILLER, INDIA
		VOLTAS, INDIA
		ENVIREX, USA
43	<b>CLARIFIER/ CLARIFLOCCULATOR</b>	HINDUSTAN DORR OLIVER, INDIA
		GEOMILLER, INDIA
		EIMCO KCP, INDIA
		PARAMOUNT, INDIA
		VOLTAS, INDIA
		NAVBHARAT ENVIROTECH, INDIA
		KEC, INDIA
44	<b>SURFACE AERATOR</b>	HINDUSTAN DORR OLIVER, INDIA
		VOLTAS, INDIA
		PARAMOUNT, INDIA
		GEOMILLER, INDIA
		EIMCO KCP, INDIA
		POLUTECH LTD., INDIA (FOR FLOATING TYPE)
		HE (HYLIC)
		BIOTEC ENVIROCARE SYSTEMS PVT. LTD
45	<b>UTILITY GENERATOR -C. ENGINE SUPPLIER AND PACKAGER</b>	STEWART AND STEVENSON, USA
		GEEKE MOTOREN, NETHERLANDS
		CATERPILLAR, USA
		KATO, USA
		RUSTON DIESEL , USA
		WAUKESHA PEARCE IND. INC , USA
		CUMMINS, USA
		DETROIT DIESEL, USA
		REGON EQUIPMENT CO., USA
46	<b>DG SET</b>	BHEL, BHOPAL, INDIA
		DIESEL LOCOMOTIVE WORKS
		GARDEN REACH SHIPBUILDERS & ENGRS LTD.
		GREAVES LTD.
		JEEVAN DIESELS AND ELECTRICALS LIMITED.
		KIRLOSKAR OIL ENGINES LIMITED
		MAN B&W DIESEL LTD
		NISHIBA ELECTRIC CO LTD

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"Construction of Oil Collecting Station(OCS)  
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		TIL LIMITED (SAHIBABAD WORKS))
		TRADING ENGINEERS (INTER NATIONAL) LTD
		WARTSILA INDIA LIMITED
		GREAVES COTTON
		JAKSONS LIMITED
		POWERICA LTD
		SUDHIR GENSETS LTD
		Clarke Energy India Pvt Ltd, Pune
47	<b>DIESEL ENGINE</b>	DIESEL LOCOMOTIVE WORKS
		GREAVES COTTON
		KIRLOSKAR OIL ENGINES LTD
		WARTSILA INDIA LTD
		WARTSILA FRANCE S.A.S
48	<b>PNEUMATIC PUMPS</b>	HASKEL ENERGY, USA
		NIKKISO, JAPAN
49	<b>FUEL GAS CONDITIONING AND COMPRESSORS</b>	PETRECO INTERNATIONAL LTD UK
		OIL & GAS SYSTEMS LTD UK
		INGERSOLL RAND USA.
		CENATCO UK
		IHI JAPAN.
		AXSIA SERCK BAKER UK
		ALEN PROCESS LTD UK.
		FRAMES PROCESS SYSTEM, B.V (Fabrication facility to be approved by the Company at the time of Execution)
		TEXAS SYSTEMS & CONTROLS, USA
		GLOBAL PROCESS SYSTEM INC., DUBAI / MALAYSIA
50	<b>GAS CONDITIONING SKID</b>	GRAND PRIX ENGINEERING PVT LTD
		NIRMAL INDDUSTRIAL CONTROL PVT LTD
51	<b>HVAC</b>	TISDALE USA
		SPECIALITY SERVICES UAE
		DIRECT ENGINEERING SERVICES AUSTRALIA
		ABB
		NAMERI
		HVAC & REFREGERATION ENGINEERING LTD., ABERDEEN, SCOTLAND
		HI-PRES, KOREA
52	<b>AIR CONDITIONING SYSTEM-CENTRAL</b>	BLUE STAR LTD
		VOLTAS LIMITED
53	<b>AIR CONDITIONING SYSTEM-PACKAGE UNIT</b>	AIR PERFECTION
		BATLIBOI & CO LTD
		BLUE STAR LTD
		EMERSON NETWORK POWER(I) PVT LTD
		ETA ENGINEERING PVT LTD
		VOLTAS LIMITED

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"Construction of Oil Collecting Station(OCS)  
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54	<b>VENTILATION &amp; PRESSURISATION SYSTEM</b>	ADVANCE VENTILATION PVT LTD
		S K SYSTEMS PVT LTD
		VOLTAS LIMITED
55	<b>PROCESS GAS COMPRESSOR -API 617</b>	KHI , JAPAN
		IHI, JAPAN
		DRESSER RAND, USA
		COOPER ENERGY SERVICES, USA
		MAN TURBO GERMANY
		ELLIOTT (NOW OWNED BY EBARA –JAPAN)
		SOLAR TURBINES INC., USA
		BHEL INDIA
56	<b>GAS TURBINE-API 616</b>	DEMAG-DE LAVAL (SIEMENS AG, GERMANY), GERMANY
		GENERAL ELECTRIC, USA
		ROLLS-ROYCE, UK
		ALSTOM, UK (SIEMENS AG, GERMANY) GERMANY
		SOLAR TURBINES, USA
57	<b>TURBINE GENERATOR SET - ALTERNATORS</b>	BRUSH ELECTRIC, UK
		GENERAL ELECTRIC, USA
		SIEMENS, GERMANY
		ALSTOM, UK
		FUJI ELECTRIC, JAPAN
58	<b>GAS TURBINE</b>	GENERAL ELECTRIC, USA
		ROLLS-ROYCE, UK
		ALSTOM, UK (SIEMENS AG, GERMANY) GERMANY
		SOLAR TURBINES, USA
59	<b>AIR FIN COOLERS-(CS &amp; SS)</b>	GEA ENERGY SYSTEMS INDIA LTD.
		GEI HAMON INDUSTRIES LTD.
		L&T LTD.
		NUOVO PIGNONE SPA ITALY, INDIA
		PAHARPUR COOLING TOWERS
		BHARAT HEAVY PLATES & VESSELS
		BUKIT FRASER THERMAL TECHNOLOGY SDN BHD, MALAYSIA
		BGR ENERGY SYSTEMS LIMITED (FORMRLY G120)
		BHEL (HYDERABAD)
		GEI INDUSTRIAL SYSTEMS LTD
		PATELS AIRTEMP (INDIA) LTD
		BATIGNOLLES TECHNOLOGIES THERMIQUES BTT
		BATIGNOLLES THERMAL TECH CHANGSHU CO LTD
		BOLDROCCHI SRL
		FBM HUDSON ITALIANA S.P.A.
		JORD INTERNATIONAL PTY LTD.
		S &T CORPORATION

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"Construction of Oil Collecting Station(OCS)  
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60	<b>SILENCER</b>	ACOUSTICS INDIA PVT LTD
		BBM ACOUSTIC INDIA PVT LTD
		GRAND PRIX ENGINEERING PVT LTD
		INDIRA INDUSTRIES
		PR ACOUSTICAL & ENGINEERING WORKS (P) LTD
61	<b>WASTE HEAT EXCHANGERS</b>	L & T LTD.
		PETRON
		ACOUSTICS INDIA PVT LTD , Trichy
		BHARAT HEAVY PLATES & VESSELS
		TECHNIP INDIA
		THERMAX
62	<b>AIR/ HC GAS DRIVEN PUMP</b>	HITACHI-BABCOCK, JAPAN
		HASKEL ENERGY, UK / HASKEL (ASIA PVT.LTD.),UK
63	<b>HYDROCYCLONE</b>	AXSIA SERCK BAKER LTD., UK.
64	<b>DRY CHEMICAL SKID (UL LISTED)</b>	ANSUL FIRE PROTECTION SYSTEM
		SAFETY & HEALTH
		WORMALD
		FIRE BOSS
		VIJAY FIRE
		FIRE COMBAT
		ANSUL
65	<b>PORTABLE FIRE EXTINGUISHERS</b>	KOOVERJEE DEVSHI & COMPANYPVT. LTD
		WORMALD FIRE ENGG.
		HOUSTON FIRE EQUIP. CO.
		DOOLEY FIRE SYSTEM INC.
		ZENETH FIRE SERVICE MUMBAI
		MERCANTILE & MARINE SERVICE, MUMBAI
		SAFEX FIRE SERVICES LTD.
66	<b>EYE WASH AND SAFETY SHOWER</b>	UNICARE EMERGENCY EQUIPMENTS, MUMBAI
		OFFSHORE CLOTHING & SUPPLIERS LTD., UK.
		NIPPON ENCON. MFG.CO.LTD.,JAPAN.
67	<b>PERSONNEL PROTECTION EQUIPMENT FROM H2S EXPOSURE</b>	WORMALD FIRE ENGG., USA.
		B DOOLEY FIRE SYSTEMS INC., USA.
		C NOHMI FIRE SAFETY EQUIPT.CO., USA.
		D HOUSTON FIRE SAFETY EQUIPT. CO., USA.
		E DRAGER AKTIENGESSELL SCHAFT, GERMANY
		F AMCO, USA.
		G NOHMI BOSAI KOGYO LTD., JAPAN
68	<b>COALESCER</b>	GRAND PRIX ENGINEERING PVT LTD
		MULTITEX FILTRATION ENGINEERS LTD
		PETROMAR ENGEERED SOLN.P LTD-FORM.R166
		JFC CORPORATION



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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		NATCO UK LIMITED (CAMEROUP GROUP COMPANY)
		PECO FACET
69	<b>SCRUBBERS-SPRAY TYPE</b>	HINDUSTAN DORR-OLIVER LTD
		INDUSTRIAL AIR CONTROL (I) PVT LTD
		THERMAX LIMITED
70	<b>SCRUBBERS-VENTURI TYPE</b>	HINDUSTAN DORR-OLIVER LTD
71	<b>ELECTRIC HEATER</b>	ESCORTS LIMITED
		SANDVIK ASIA PVT LTD-KANTHAL DIVISION
		CHEMTEC PTE LTD
		ETIREX CHROMALOX
		KLOPPER THERM GMBH & KG
		TERMoeLECTRICA VILA, S.A
		WATLOW ELECTRIC MFG. COMPANY
72	<b>DEMISTER-WIRE MESH TYPE</b>	CONTINENTAL PROFILES LTD
		EVERGREEN TECHNOLOGIES PVT LTD
		HAVER STAND INDIA PVT LTD
		KOCH CHEMICAL TECH. GROUP INDIA PVT LTD
		PACE ENGINEERING INDUSTRIES PVT LTD
		MUNTERS EUROFORM GMBH
73	<b>DEMISTER-VANE TYPE</b>	GRAND PRIX ENGINEERING PVT LTD
		KOCH CHEMICAL TECH. GROUP INDIA PVT LTD
		MUNTERS EUROFORM GMBH
74	<b>DISHED ENDS PRESS CARBON STEEL</b>	ANUP ENGINEERING LIMITED
		B.K.T. SPIN DISH PVT LTD
		DISH INDIA PVT LTD
		HIRALA DISHED ENDS WORKS PVT LIMITED
		ICEM ENGINEERING COMPANY LTD
		INDCON TANKS & VESSELS (P) LTD
		KCP LIMITED
		MOTILAL DISHED-ENDS WORKS PVT LTD
		SATYA FABRICATORS PVT LTD
		STEELFIT ENGRINEERING COMPANY
75	<b>SECONDARY SEAL FLOATING ROOF TANK</b>	SAI TOOLS
76	<b>GAS DEHYDRATION UNIT</b>	GASTECH USA
77	<b>LOADING ARM</b>	WOODFIELD SYSTEM INDIA PVT. LTD. MUMBAI
		STEELFAB ENGINEERING PVT. LTD PUNE
<b>PIPING</b>		
<b>S. No</b>	<b>EQUIPMENT</b>	<b>VENDOR</b>
1	<b>CS PIPE (WELDED) (1239 &amp; 3589)</b>	KHANDELWAL TUBES
		SWASTIK PIPES LTD.
		LLOYDS METALS & ENGINEERS LTD.

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		JINDAL PIPES LIMITED
		MUKAT PIPES LIMITED
		RATNAMANI METALS & TUBES LTD.
		STEEL AUTHORITY OF INDIA
		SAW PIPES LIMITED
		INDUS TUBE LIMITED
		SURYA ROSHNI LTD.
		THE TATA IRON & STEEL CO. LTD.
		WELSPUN GUJARAT STAHL ROHREN LTD.
		WEST COAST SAW PIPES LTD.
		ADVANCE STEEL TUBE, LTD.,
		BMW INDUSTRIES LTD.
		LALIT PROFILES & STEEL INDUSTRIES LTD.
		MAN INDUSTRIES (I) LTD.
		MUKAT TANKS & VESSELS LTD.
		NORTH EASTERN TUBES LTD.
		PSL HOLDING LTD. CHENNAI
		SRI SARBATI STEEL TUBES LTD.
		SURENDRA ENGG. CO. PVT. LTD. (RAJPURA)
		SURENDRA ENGG. CO. LTD. (MUMBAI)
		T.I. ENGINEERING (DIV. OF TUBE INVEST. INDIA)
2	CS PIPE	MAHALAXMI SEAMLESS
		MAHARASHTRA SEAMLESS LTD.
		BHEL , TRICHY
		INDIAN SEAMLESS METAL TUBES LTD.
		SAW PIPE LIMITED
		KALYANI SEAMLESS METAL TUBES LTD.
		THE TATA IRON & STEEL CO. LTD.
		WELSPUN GUJARAT STAHL ROHREN LTD.
		SURYA ROSHNI LTD.
		MAN INDUSTRIES (I) LTD.
		JINDAL PIPES, NEW DELHI, INDIA
		NSC, JAPAN
		MITSUBISHI, JAPAN
		MGI, FRANCE
3	S.S. PIPE	RAJENDRA MECHANICAL INDUSTRIES (P) LTD.
		CHOKSI TUBE CO. LIMITED
		NUCLEAR FUEL COMPLEX
		RATNA MANI METAL TUBE
		DECORA TUBES (P) LTD.
		HEAVY METALS & TUBES LTD.
		SAW PIPES LTD.
		KALINDI, DELHI, INDIA



## BID PACKAGE

"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		NFC, HYDERABAD, INDIA
		PRODUCTOS TUBULARS SA, SPAIN
4	RUBBER LINED PIPE	KRR ENGINEERS PVT. LIMITED
		LEBRACS RUBBER LINING
		MIL IND. LIMITED
5	FRP / HDPE PIPE	BALAJI PIPES
		STRATEGIC ENGINEERING, CHENNAI
		PENNWALT, BARODA
		COMPOSITE INC., MUMBAI
		CHEMICAL PROCESS EQUIPMENTS PVT. LTD., MUMBAI
6	CS AND SS FORGED FLANGE	ADITYA FORGE LTD.
		ANANDMAYEE FORGING (P) LTD.
		PUNJAB STEEL WORKS
		ECHJAY FORGINGS PVT. LTD.
		GOLDEN IRON AND STEEL WORKS
		CHOUDHURY HAMMER WORKS PVT. LTD.
		FORGE AND FORGE PVT. LTD.
		INDUSTRIAL FORGE & ENGG. CO. LTD.
		JAV FORGING PVT. LTD.
		SIDHARTH & GAUTAM ENGINEERS PVT. LTD.
		KUNJ FORGINGS
		METAL FORGINGS PVT. LTD.
		UMA SHANKAR KHANDELWAL & CO.
6	CS AND SS FORGED FLANGE	STEEL & INDUSTRIAL & FORGINGS LTD.
		AMFORGE INDUSTRIES LTD.
		BRIDGE & ROOF CO. (I) LTD.
		BRITECH ENGINEERING WORKS
		CD ENGINEERING CO.
		CD INDUSTRIES, GHAZIABAD
		MOD FABRICATORS
		PRADEEP METAL LTD.
		RP ENGINEERING PVT. LTD.
		Echjay Industries, Mumbai /Rajkot,
		Paramount Forge, Mumbai,
		Tube Products Incorporate, Vadodara,
		SawanEngineers
7	FLANGES -(DUPLEX SS)	SUMITOMO CORPORATION, JAPAN.
		SANDVIK , SWEDEN.
		COPRISIDER SPA, ITALY.
		MANNESMANN, GERMANY
		OFFICINE AMBROCIO MELESI & C.SRI, ITALY
		MGI, FRANCE
		OFFICINE NICOLA GALPERTI FIGLIO S.P.A, ITALY



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8	<b>FLANGES (C.S NACE)</b>	SUMITOMO, JAPAN
		COPROSIDER SPA, ITALY
		OFFICINE NICOLA GALPERTI FIGLIO S.P.A, ITALY.
		TROUVAY & CAUVIN , FRANCE.
		MELESI , ITALY.
		OFFICINE AMBROCIO MELESI & C.SRI , ITALY
		MGI, FRANCE
		SCHULZ EXPORT GMBH, GERMANY
		SPECIAL FLANGES SRL, ITALY
		TUBEPRODUCTS INCORPORATE, INDIA
		CHAUDHRY HAMMERS WORKS, GHAZIABAD
9	<b>FLANGES (SS NACE &amp; NON NACE)</b>	ECHJAY INDUSTRIES, MUMBAI
		CHAUDHRY HAMMERS WORKS, GHAZIABAD
		OFFICINE AMBROCIO MELESI & C.SRI, ITALY
		TUBE PRODUCTS INCORPORATE, VADODARA, INDIA
		OFFICINE NICOLA GALPERTI FIGLIO S.P.A, ITALY
10	<b>CS AND SS PIPE FITTING</b>	EBY INDUSTRIES
		ECHJAY INDUSTRIES PVT. LIMITED
		TEEKAY TUBES (P) LIMITED
		STEWARTS AND LLOYDS,
		NITIN PROFILES (P) LIMITED
		M.S. FITTINGS MFG. CO. PVT. LTD.
		SIDHARTH & GAUTAM ENGINEERS
		EBY FASTENERS
		COMMERCIAL SUPPLYING AGENCY
		LEADERS VALVES LTD.
		M.S. FITTINGS MFG. CO. PVT. LTD.
		SHIVANANDA PIPE FITTINGS, CHENNAI (ONLY SEAMLESS)
		COMMERCIAL SUPPLYING AGENCIES, MUMBAI
		PRECISION FORGING
		FORGED INDUSTRIAL CORP
		TUBE PRODUCTS, BARODA
		PIPE FIT ENGINEERS , VADODARA
		TUBE PRODUCTS INCORPORATE
		SAWAN ENGINEERS
		GUJARAT INFRA PIPES, MUMBAI,
11	<b>GATE, GLOBE &amp; CHECK VALVE (CS AND SS)</b>	ALLIED INTERNATIONAL S.R.L
		EBY FASTENERS (SW FITTINGS FOR SIZES 2" & <2")
		L&T LTD.
		KSB PUMPS LTD. , COIMBATTORE
		AUTOMECH ENGINEERS PVT. LTD.
		AV VALVES LTD.
		BHEL, TRICHY

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		FOURESS ENGINEERING
		DEWRANCE & MECHNEILL LTD.
		BDK ENGINEERING INDUSTRIES LTD.
		NITON VALVE INDUSTRIES PVT. LTD.
		SAKHI ENGINEERS (PVT.) LTD.
		PRECISION ENGINEERS PVT. LTD.
		NECO SCHUBER & SALZER LEADER VALVES
		STEEL STRONG VALVES (I) PVT. LTD.
		AKSONS MECHANICAL ENTERPRISES
		LEADER VALVES LTD.
		OSWAL INDUSTRIES LTD. (UPTO # 600)
		PANCHVATI VALVES & FLANGES PVT. LTD.
		PETRO CHEMICAL ENGINEERING ENTERPRISES.
		SHALIMAR VALVES PVT. LTD.
		TMT ENGG. INDUSTRIES LTD.
		COOPER CAMERON VALVES, USA
		DRESSER SPA, ITALY
		KTM, JAPAN
		DEUTACH AUDCO, GERMANY
		KITZ, JAPAN
		SERCK, AUDCO VALVES INTERNATIONAL, U.K
		FLOW CONTROL TECHNOLOGY, FRANCE
		CRANE, USA
		ORBIT VALVE , UK
		T.K.VALVES, ABU DHABI, UAE
		OMX SPA, ITALY
		PETROL VALVES, ITALY
		VALVINOX, ITALY
		UNIVERSAL SRL, ITALY
		LVF, ITALY
		BFE SPA, ITALY
		SACCAP, FRANCE
		FLOW SERVE FLOW CONTROL, GMBH GERMANY
		AUDCO INDIA LTD., INDIA
		GOODWIN INTERNATIONAL LIMITED, ENGLAND (Wafer Check valves only)
		ARGUS, WEST GERMANY
		CAMERON IRON WORKS, USA
		FORWARD ALLOYS & CASTINGS, MUMBAI (For Check valves CS up to size6" x 900#)
		DOUGLUS CHERO SPA, ITALY (Up to 8" size)
		TYCO VALVES AND CONTROLA ITALIA S.R.L
		Z &J TECHNOLOGIES GMBH
12	<b>GATE, GLOBE &amp; CHECK</b>	SHAYBURG VALVES PRIVATE LIMITED, MUMBAI

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"Construction of Oil Collecting Station(OCS)  
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	<b>VALVE (NACE</b>	SHAYBURG VALVES PRIVATE LIMITED, AHMEDABAD (Globe Valves of size 2" Class 600)
13	<b>BALL VALVE (CS AND SS)</b>	L&T LTD. VIRGO ENGINEERS LTD. FISHER XOMOX SANMAR LTD. BDK ENGINEERING INDUSTRIES LTD. FLOWCHEM INDUSTRIES NITON VALVE INDUSTRIES PVT. LTD. AUTOMECH ENGINEERS PVT. LTD. MICROFINISH VALVES LTD. KSB PUMPS LTD. , COIMBATTUR
14	<b>BALL VALVE (CS NACE)</b>	COOPER CAMERON VALVES, USA DRESSER SPA, ITALY KTM, JAPAN DEUTACH, AUDCO GERMANY FLOWSERVE FLOW CONTROL, GMBH GERMANY KITZ, JAPAN SERCK AUDCO VALVES INTERNATIONAL, U.K. FLOW CONTROL TECHNOLOGY, FRANCE CRANE, USA ORBIT VALVE, U.K. T.K. VALVE, ABU DHABI, UAE OMB SPA. SPAIN (upto 1.5") PETROL VALVES, ITALY VALVINOX, ITALY UNIVERSAL SRI.NACE BALL VALVE, ITALY (4" & below) LCM, ITALIA SRL, ITALY MULTI VALVE TECHNOLOGY, UK RAIMONDI, ITALY WALTHER WEIR, SPAIN NISHITANI & CO, JAPAN YONEDA KOGYO CO, JAPAN TRUFLO RONA S.A, BELGIUM VIRGO ENGINEERS LTD., PUNE INDIA ARGUS WEST, GERMANY CAMERON IRON WORKS, USA O.M.S. SALERI, ITALY
15	<b>BALL VALVES -CS NON-NACE</b>	AUDCO INDIA LTD. FORWARD ALLOYS & CASTINGS, MUMBAI (upto 8"X900#) VIRGO ENGINEERS LTD., PUNE MICROFINISH, HUBLI O.M.S. SALERI, ITALY OSWAL INDUSTRIES LTD., AHMEDABAD

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16	<b>BALL VALVES (SS NACE AND NON NACE)</b>	AUDCO INDIA LTD. VIRGO ENGINEERS LTD., PUNE VALVINOX S.R.L, ITALY
17	<b>BUTTERFLY VALVE</b>	ALFA LAVAL SAUNDERS BDK ENGINEERING INDUSTRIES LTD. L&T LTD. INTERVALVE (I) LTD. FOURESS ENGG. (I) LTD. KEYSTONE (I) PVT.LTD. SEALMAT ENGINEERS. LEADER VALVES LTD. DEWRANCE & MECHNEILL LTD. AVC ENGG. COMPANY PVT. LTD. CRANE PROCESS FLOW TECHNOLOGIES LTD. INSTRUMENTATION LTD. PALGHAT
18	<b>NEEDLE VALVE</b>	LEADER VALVES LTD. EXCELESIOR ENGINEERING WORKS. SWASTIK ENGINEERING WORKS TECHNOMATIC (I) PVT. LTD. TMT ENGINEERING INDUSTRIES LTD. VARALL ENGINEERS
19	<b>NEEDLE VALVES (CS NON-NACE)</b>	SAKHI ENGINEERS, MUMBAI-BARODA CHEMVALVES INDUSTRIES, MUMBAI VALVINOX, ITALY NITON VALVE INDUSTRIES PVT.LTD., MUMBAI
20	<b>NEEDLE VALVES (SS- NACE)</b>	NITON VALVE INDUSTRIES PVT.LTD., MUMBAI
21	<b>HOSE PIPE (STEAM / GAS / AIR / WATER / CHEMICAL)</b>	ASHIT SALES CORPORATION BHARAT RUBBER UDYOG COSMOPOLITE (THE) CROWN RUBBER INDUSTRIES (P) LTD. D. WREN INDUSTRIES PVT. LTD. GAYATRI INDUSTRIES JYOTI RUBBER UDYOG (I) PVT. LTD. MARKWEL HOSE INDUSTRIES PVT. LTD. PRESIDENCY RUBBER MILLS PVT. LTD. ROYAL INDIA CORPORATION (NASIK WORKS) SONI RUBBER PRODUCTS LTD. SRIDHAR RUBBER PRODUCTS PVT. LTD. TAURIAN TUBES UNIQUE RUBBER WORKS
22	<b>FW /FM REELS &amp; UTILITY HOSE REELS-</b>	MARINE HYDRAULIC, INDIA ROYAL INDIA CORPORATION, MUMBAI



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	(UL/USCG/FM INDIA APPROVAL)	DOOLEY TACKABERRY, USA
23	DIAPHRAGM VALVE (STEEL)	BDK MARKETING SERVICES PVT LIMITED, NEW DELHI INVEST VALVES PVT LIMITED, BANGALORE
24	VALVE PLUG PRESSURE BALANCED (NFS)	ECONO VALVES LTD( INDIGENOUS) HAWA VALVES (INDIA) PVT LTD(INDIGENOUS) LARSEN & TOUBRO LTD(INDIGENOUS) FLOWSER PTE(MFR. SERCK)(FOREIGN) GALLI & CASSINA SPA( FOREIGN)
25	VALVE PLUG PRESSURE BALANCED (FS)	LARSEN & TOUBRO LTD(INDIGENOUS) GALLI & CASSINA SPA (FOREIGN)

**INSTRUMENTATION**

S. No	EQUIPMENT	VENDOR
1	ELECTRONICS TRANSMITTERS (PRESSURE / DP/ TEMPERATURE TRANSMITTER)	YOKOGAWA INDIA LIMITED BAILEY CONTROLS, USA. EMERSON PROCESS MANAGEMENT HONEYWELL AUTOMATION INDIA LTD ABB – INSTRUMENTATION LTD. ITT, BARTON INSTRUMENTATION LTD. KOTA SCHLUMBERGER FUJI
2	PRESSURE SWITCHES, DIFFERENTIAL PRESSURE SWITCHES / TEMPERATURE SWITCHES	DAG PROCESS INSTRUMENTS SOR, USA SWITZER INSTRUMENT LIMITED INDFOSS IND. LIMITED, UNITED ELECTRIC , USA / UK / JAPAN DRESSER INC, USA SIRCO CONTROLS LTD., UK VASU TECH. LTD. DELTA CONTROLS KDG INSTRUMENTS NAGANO-KEIKI ITT, SCHNEIDER ASCHCROFT ASCO BETA BV BOURDON HAENNI S.A GENERAL INSTRUMENTS CONSORTIUM PYRO PRESS ENGG CO LTD REGULATEURS GEORGIN S.A ROBERTSHAW CONTROLS CO

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3	<b>PNEUMATIC PR. SWITCH/ HI-LO PILOTS (INDICATING DIAL TYPE)</b>	e-PRODUCTIONS SOLUTION
		WKM
		AXELSON
		PT-PETROTECH
		HALLIBURTON ENERGY
		RUELCO
4	<b>PRESSURE SAFETY VALVE / RELIEF VALVE</b>	ANDERSON GREENWOOD CROSBY.
		MEKASTER ENGINEERING PVT LTD.
		TYCOSANMAR ,TRICHY
		BHEL, TRICHY
		INSTRUMENTATION LTD., PALGHAT
		NAKAKITA SESAKUSHO CO. LTD, JAPAN
		NUOVO PIGNONE SPA, ITALY
		SAFETY INSTRUMENT SYSTEM LTD
		SAPAG –ALSTHOM
		FUKUI
		FARRIS ENGINEERING
		TRIANGLE
		AUDCO INDIA LTD.
		HAM-LET ADVANCED CONTROL TECHNOLOGY
		MOORCO (ONLY FOR NON-ASME SERVICE)
		IMI BAILEY BIRKIT
		TELEDYNE FARRIS ENGINEERING
		CURTISS WRIGHT FLOW CONTROL CORPORATION
5	<b>PRESSURE SWITCHES (EXPLOSION PROOF)</b>	DRESSER INC.
		LESER GMBH & CO. KG
		PARCOL SPA
		SEBIM VALVES INDIA PVT LTD
		WEIR VALVES AND CONTROLS
		SOR
		ITT NEODYN
		ASCHCROFT
		YOKOGAWA
6	<b>FLOW SWITCHES (PNEUMATIC &amp; ELECTRICAL)</b>	DELTA CONTROLS
		e-PRODUCTIONS SOLUTION
		DANFOSS
		YEW
		DAG PROCESS
		MSW
		MAGNETROL
		TOKYO KEISO
		YOKOGAWA INDIA LIMITED
		BARTON INSTRUMENT SYSTEM LIMITED

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7	<b>PRESSURE GAUGES &amp; RECEIVER GAUGES</b>	MANOMETER (INDIA), BOMBAY
		H GURU INSTRUMENTS (SOUTH INDIA)PVT.LTD.
		GENERAL INSTRUMENTS CONSORTIUM.
		WIKA INSTRUMENTS INDIA PVT. LTD.
		A.N. INSTRUMENTS PVT. LTD.
		GLUCK (INDIA) MFG. CO.
		WAREE INSTRUMENTS LTD.
		BUDENBERG GAUGE CO. LTD.
		GAUGES BOURDEN
		BARTON INSTRUMENT SYSTEM LIMITED
		AMETEK
		BADOTHERM PROCESS INSTRUMENTS B.V
		BOURDON HAENNI S.A
		BRITISH ROTOTHERM CO. LTD
		DRESSER INC.
		FORBES MARSHALL PVT LTD,.
		NAGANO KEIKI SEISAKUSHO LTD
		PRECISION INDUSTRIES
		WALCHANDNAGAR INDUSTRIES LTD
		WIKA ALEXANDER WIEGAND & CO GMBH
8	<b>DIFFERENTIAL PRESSURE GAUGES</b>	ANI INSTRUMENTS PVT. LTD.
		HIRLEKAR PRESSION ENGINEERING PVT. LTD.
		SAMSON CONTROLS PVT. LTD.
		SWITZER INSTRUMENT LTD.
		WAREE INSTRUMENTS LTD.
		WIKA INSTRUMENTS INDIA PVT. LTD.
		BUDENBERG GAUGE CO. LTD.
		BOURDON
		GAUGES BOURDON
		BARTON INSTRUMENT SYSTEM LIMITED
		MERIAM PROCESS TECHNOLOGIES
		ITT BARTON
		GENERAL INSTRUMENTS CONSORTIUM
		SWITZER INSTRUMENT LTD
9	<b>PNEUMATIC INDICATING CONTROLLER</b>	YOKOGAWA INDIA LTD.
		EMERSON PROCESS MANAGEMENT (EARLIER FISHER)
		BARTON INSTRUMENT SYSTEM LIMITED
		FOXBORO
		ABB – KENT
		ABB LIMITED
		BRISTOL BABCOCK
		ITT BARTON
		MASONEILAN INDIA LTD.



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10	<b>TEMPERATURE ELEMENTS &amp;THERMOWELLS</b>	GENERAL INSTRUMENTS, BOMBAY
		DETRIV INSTRUMENTATION, BOMBAY
		NAGMAN SENSORS PVT. LTD, MADRAS
		PYRO-ELECTRIC INSTRUMENT, GOA
		TEMP TECH.
		ALTOP INDUSTRIES.
		ABB AUTOMATION LTD
		BOURDON HAENNI S.A
		DAILY THERMETRICS
		GAYESCO LLC
		INVENSYS SOFTWARE SYSTEMS (S) PTE
		JAPAN THERMOWELL CO LTD
		TEMPSEN INSTRUMENT INDIA LTD
		THERMO ELECTRIC CO. INC.
		THERMO ELECTRIC PRODUCTS CO
		THERMO ELCTRA B.V
		T M TECNOMATIC SPA
		WIKA ALEXANDER WIEGAND & CO GMBH
11	<b>TEMPERATURE GAUGES</b>	MANOMETER (INDIA), BOMBAY
		GENERAL INSTRUMENTS INIDA
		H GURU INSTRUMENTS (SOUTH INDIA) PVT.LTD.
		GLUCK (INDIA) MFG.
		WIKA INSTRUMENTS INDIA PVT. LTD.
		ASCHCROFT
		NAGANO KEIKI
		GENERAL INSTRUMENTS CONSORTIUM, MUMBAI
		WAREE INSTRUMENTS LTD., MUMBAI
		GAUGES BOURDON
		A.N. INSTRUMENTS
		BADOTHERM PROCESS INSTRUMENTS B.V.
		DRESSER INC.
		PYRO-ELECTRIC INSTRUMENTS GOA PVT LTD
		SOLARTRON ISA
		WALCHANDNAGAR INDUSTRIES LTD
		WIKA ALEXANDER WEIGAND & CO GMBH
		BOURDON HAENNI S.A
12	<b>ORIFICE PLATES AND FLANGES AND RESTRICTION ORIFICE</b>	BALIGA LIGHTING EQUIPMENT, LTD.
		GURUNANAK ENGG. WORKS
		MICRO PRECISION PRODUCT PVT. LTD.
		MINCO (INDIA) PVT. LIMITED
		INSTRUMENTATION LTD., PALGHAT
		DANIEL MEASUREMENT & CONTROLS ASIA PACIFIC.
		FERRY EQUIPMENT CORPORATION. USA



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		PETROL VALVES, ITALY
		ABB LIMITED
		MICRO PRECISION
		GENERAL INSTRUMENTS CONSORTIUM, MUMBAI
		EUREKA INDUSTRIAL EQUIPMENTS (P) LTD
		FMC MEASUREMENT SOLUTIONS-U.K
		JRU CONTROL PVT LTD
		PIETRO FORENTINI SPA
		STAR-MECH CONTROLS (INDIA) PVT LTD
		TM TECNOMATIC SPA
13	<b>SINGLE/ DUAL CHAMBER ORIFICE FITTINGS</b>	DANIEL, USA
		CAMERON MEASUREMENT SYSTEMS, UK
		PERRY EQUIPMENT CORPORATION, USA
14	<b>ULTRASONIC FLOWMETER (LIQUID)</b>	CONTROLTRON, USA
		FLOW TEC, UK
		FUJI ELECTRIC, JAPAN
		EMCO FLOW SYSTEM, U.S.A.
		KROHNE MESSTECHNIK GMBH & CO. GERMANY
		ENDRESS-HAUSER
		EMERSON PROCESS AUTOMATION LTD.
		PANAMETRICS
		SICK-MAIHAK AG
		CALDON LTD., USA
		ELSTER-INSTROMET NV-FORMER
		RMG REGEL + MESSTECHNIK GMBH
		SIEMENS AG
		THERMO ELECTRON CORPORATION
		TOKYO KEISO CO LTD
15	<b>ULTRASONIC FLOWMETER (GAS)</b>	CONTROLTRON, USA
		PANAMETRICS LTD, IRELAND
		DANIEL MEASUREMENT SOLUTIONS PVT LTD.
		SICK-MAIHAK AG
		FMC MEASUREMENT SOLUTIONS. USA
		INSTROMET INTERNATIONAL NV, BELGIUM
16	<b>VARIABLE AREA FLOWMETER (ROTAMETER)</b>	TRANSDUCER AND CONTROLS PVT. LTD
		EUREKA INDUSTRIAL EQUIPMENT (P) LTD.
		INSTRUMENTATION ENGINEERS PRIVATE LIMITED
		KROHNE MARSHALL LTD.
		AFLOW GLASS EQUIPMENTS, INDIA
		ROTA INSTRUMENTATION, INDIA
		TOKYO KEISO CO. LTD.
		EMERSON PROCESS AUTOMATION
		INTRA AUTOMATION GMBH

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		ABB AUTOMATION LTD
		ASA SPA
		HEINRICHS MESSTECHNIK GMBH
		KROHNE MESSTECHNIK GMBH & CO KG
		PLACKA INSTRUMENTS INDIA P LTD
		EMERSON PROCESS MANAGEMENT INDIA LTD.
		FLUID COMPONENT, USA
		ENDRESS-HAUSER, GERMANY
		FMC MEASUREMENT SOLUTIONS. USA
		EMERSON PROCESS ASIA PACIFIC
		KROHNE MESSTECHNIK, GERMANY
		RHEONIK MESSGERATE GMBH, GERMANY.
		AGAR CORPORATION
		SCHLUMBERGER
		HEINRICHS GMBH
		BRONKHORST HIGH TECH BV
		FOX THERMAL INSTRUMENT INC.
		KURZ INSTRUMENTS INC
		MAGNETROL INTERNATIONAL N.V.
		TOKYO KEISO CO LTD
		ITT BARTON
		DASHMUK
		LAXONS, BOMBAY
		TOSHNIWAL BROS.
		CAPSTAN
		ROCKWIN
		MEINECKE
		ITT BURTON, U.S.A. / U.K.
		ROCKWIN FLOWMETER INDIA LTD.( FOR LIQUID SERVICE ONLY)
		DANIEL MEASUREMENT & CONTROLS ASIA PACIFIC.
		BROOKS INSTRUMENTS, U.S.A.( FOR LIQUID SERVICE ONLY)
		MOORCO, INDIA( FOR LIQUID SERVICE ONLY)
		BOPP AND REUTHER. GERMANY ( FOR LIQUID SERVICE ONLY)
		TYCO SANMAR( FOR LIQUID SERVICE ONLY)
		FMC SMITH METERS INC( FOR LIQUID SERVICE ONLY)
		ABB AUTOMATION LTD.
		BARTON INSTRUMENT SYSTEMS LTD.
		ELSTER-INSTROMET NV-FORMER 1563
		FMC MEASUREMENT SOLUTIONS
		FMC TECHNOLOGIES SANMAR LTD.
		HOFFER FLOW CONTROLS INC.
17	<b>MASS FLOW METER/ CORIOLIS FLOWMETER AND NET OIL COMPUTERS</b>	
18	<b>WATER METERS</b>	
19	<b>TURBINE METER –LIQUID SERVICES</b>	

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		FAURE HERMAN GROUP INTERTECHNIQUE SENSUS METERING SYSTEM INC, USA.(FOR GAS SERVICES ONLY) RMG REGEL+ MESSTECHNIC, GERMANY(FOR GAS SERVICES ONLY) THERMOELECTRON CORPORATION, USA(FOR GAS SERVICES ONLY)
20	<b>MAGNETIC FLOW METER</b>	YOKOGAWA, JAPAN YOKOGAWA INDIA LTD. ENDRESS-HAUSER KROHNE-MARSHALL, PUNE EMERSON PROCESS MANAGEMENT (INDIA) PVT LTD ABB AUTOMATION LTD. HEINRICHS MESSTECHNIK GMBH. INSTRUMENTATION ENGINEERS PVT. LTD. INVENSYS SOFTWARE SYSTEMS (S) PTE. LTD. KROHNE MESSTECHNIK GMBH.& CO. KG. TOKYO KEISO CO. LTD. YAMATAKE CORPORATION LTD.
21	<b>VORTEX FLOW METER</b>	BOPP & REUTHER, GERMANY ABB AUTOMATION LTD., UK EMERSON PROCESS MGMT ASIA PACIFIC LTD. EMERSON PROCESS MGMT INDIA LTD. KROHNE MARSHALL KROHNEMESSTECHNIK GMBH & CO KG, GERMANY OVAL CORPORATION, JAPAN RMG REGEL MESSTECHNIK GMBH, GERMANY YOKOGAWA ELECTRIC CORPORTION, JAPAN SIEBE INDIA (INVENSYS) LTD.
22	<b>AVERAGING PITOT TUBES</b>	STAR MECH CONTROLS(INDIA) PVT. LTD. EMERSON PROCESS MGT. MIDWEST INSTRUMENT, USA. THERMO BRANDT INSTRUMENTS, USA TORBAR FLOWMETERS LTD. UK. VERIS INC. USA. STAR-MECH CONTROLS INDIA PVT LTD. TM TECNOMATIC SPA.
23	<b>FLOW COMPUTER</b>	DANIEL ITT BARTON YOKOGAWA SOLARTRON TRANSDUCERS OMNI FLOW COMPUTERS INC. BRISTOL BABCOCK DIGITAL SYSTEM NUFLO

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24	FLOW TOTALIZER	BARTON INSTRUMENT
		DANIEL MEASUREMENT & CONTROL
		YOKOGAWA
		CONTREC
25	LEVEL GAUGES (REFLEX / TRANSPARENT)	LEVCON INSTRUMENTS PVT. LIMITED
		TECHNOMATIC(INDIA) PVT LTD.
		PRATOLINA INSTRUMENTS PVT. LIMITED
		CHEMTROL ENGINEERING LIMITED
		BLISS ANAND PVT. LIMITED
		KROHNE MARSHALL PVT. LIMITED
26	GAUGE GLASS & COCKS	SIGMA INSTRUMENTS CO.
		NIHON KLINGER
		PATROLE SERVICES
		JERGUSON GAUGE & VALVE COMPANY
		PENBURTY
		TECHNOMATIC
		CHEMTROLSINDUSTRIES LTD.
		PROTOLINA, MUMBAI
		SAMIL
		DANIELS,
		LEVCON INSTRUMENT PVT LTD
		ASIAN INDUSTRIAL VALVES & INSTRUMENTS
		BLISS ANAND PVT. LTD.
		KLINGER FLUID CONTROL GMBH.
		PHOENIX SYSTEMLEMENTE UND. MESSTECHNIK
		PUNE TECHTROL PVT. LTD.
		R. K. DUTT CONCERNS
		SIGMA INSTRUMENTS CO.
27	LEVEL TRANSMITTER (DISPLACER TYPE – LEVELTROL)	CHEMTROL INDUSTRIES LTD.
		MIL CONTROL LIMITED.
		FISHER XOMOX LTD.
		MAGNETROL INDIA PVT. LTD.
		DRESSER VALVE INDIA PVT. LTD.
		MSW CONTROLS,
		EMERSON PROCESS MANAGEMENT (EARLIER FISHER)
		DRESSER VALVE (INDIA) PVT.LTD. (FOR DISPOSAL LEVELTRANSMITTERS)
		DRESSER MASONEILAN
		ECKARDT
		DRESSER PRODUITS INDUSTRIELS
		PARCOL SPA
		TOKYO KEISO CO LTD
		V AUTOMAT & INSTRUMENTS PVT LTD

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"Construction of Oil Collecting Station(OCS)  
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		YAMATAKE CORPORATION PVT LTD
28	LEVEL SWITCHES (DISPLACER TYPE)	E-PRODUCTIONS SOLUTION
		BACKER-CAC
		LEVCON INSTRUMENTS, PVT. LTD. CALCUTTA
		PLACKA INSTRUMENTS, CONTROL PVT. LTD., CHENNAI
		DAG PROCESS INSTRUMENTS, MUMBAI
		BLISS ANAND PVT. LTD.
		SB ELECTRO MECHANICAL, PUNE
		ENDRESS-HAUSER
		CHEMTROL INDUSTRIES LTD.
		TRANSDUCERS & CONTROLS PVT. LTD.
		PATROL SERVICE
		MSW CONTROLS
		TOKYO KEISO
		MAGNETROL
		DAG PROCESS INSTRUMENTS, MUMBAI
		EMERSON PROCESS MGMT ASIA PACIFIC PTE LTD
		JRU CONTROLS PVT LTD.
		KROHNE MESSTECHNIK GMBH & CO. KG
		KSR KUEBLER NIVEAUMESS-TECHNIK AG
		MOBREY LTD.
29	LEVEL SWITCHES (CAPACITANCE TYPE)	SIGMA INSTRUMENTS CO.
		V AUTOMAT & INSTRUMENTS PVT LTD.
		ENDRESS-HAUSER
		SIEMENS
		AMTREX DEXEL BROOK, USA
		VEGA GRIESHABER K, GERMANY
30	TANK LEVEL INDICATORS (MECHANICAL FLOAT & TAPE)	TRANSDUCERS & CONTROL PVT. LIMITED
		VENTURE MEASUREMENT COMPANY, USA
		SB ELECTROMECHANICALS
		NIVO CONTROLS PVT. LIMITED
		SIGMA INSTRUMENT CO.
		ENDRESS HAUSER
31	TANK LEVEL INDICATORS (SERVO TYPE TGM / RADAR TYPE)	TOKYO KEISO CO. LTD. JAPAN
		ENRAF, SINGAPORE
		ENRAF SINGAPORE PTE LTD., SINGAPORE
		EMERSON PROCESS CONTROLS
		SAAB ROSEMOUNT
		SBEM PVT LTD.
32	LEVEL INSTRUMENTS (RADAR)	TOKYO KEISO CO. LTD. JAPAN
		ENDRESS-HAUSER
		ENRAF SINGAPORE PTE LTD., SINGAPORE
		SAAB ROSEMOUNT.

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	<b>TYPE/ULTRASONIC)</b>	ENDRESS-HAUSER. VEGA GRIESHABER K, GERMANY. KROHNE MESSTECHNIK, GERMANY EMERSON PROCESS CONTROLS. MAGNETROL SOLARTRON MOBREY LTD. UK (ULTRASONIC ONLY) AMTEK DREXELBROOK. USA SIEMENS MILLTRONICS PROCESS INST. INC. CANADA (ULTRASONIC ONLY) HAWK MEASUREMENT SYSTEMS PVT LTD. L&J TECHNOLOGIES MOBREY LTD SIEMENS AG
33	<b>CONTROL PANEL</b>	POSITRONIC, BARODA ELECTRO CONTROL SYSTEM NOIDA INDUSTRIAL CONTROL & APPLIANCES. RADHAKRISHNA CONTROLS, CALCUTTA PRIMA AUTOMATION INDIA PVT. LTD ACCUSONIC CONTROLS PVT. LTD. ELECTRONIC CORPORATION OF INDIA LTD. ELECTRONIC INSTRUMENTATION AND CONTROL INSTRUMENTATION LTD. KERALA STATE ELECT. DEV CORP. LTD. PYROTECH ELECTRONICS PVT. LTD.
34	<b>ELECTRONIC CONTROLLER (CONTROL PANEL INSTRUMENT)</b>	YOKOGAWA INDIA LTD. ABB INSTRUMENTATION LTD. TATA HONEYWELL BAILEY THERMAX
35	<b>PUSH BUTTONS / SWITCHES / LAMPS (CONTROL PANELINSTRUMENT)</b>	TEKNIC CONTROLS KAYCEE L&T SIEMENS
36	<b>ALARM ANNUNCIATORS (CONTROL PANEL INSTRUMENT)</b>	DIGICONT ECIL PROCON INSTRUMENTATION PVT. LTD ICA INDUSTRIAL INSTRUMENT CONTROLS. INSTALARM INSTRUMENTS PVT. LTD. RONAN ENGINEERING COMPANY,UK. IDEC IZUMI CORPORATION JAPAN ROCHESTER INSTRUMENT SYSTEM, UK. INSTRUMENTATION LTD.





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		MINILEC INDIA PVT LTD.
37	<b>RECEIVER INSTRUMENTS (CONTROL PANEL INSTRUMENT) – (INDICATORS / RECORDERS / SIGNAL DISTRIBUTORS / ALARM CARDS)</b>	ABB INSTRUMENTATION LTD.
		TATA HONEYWELL
		YOKOGAWA INDIA LTD.
		ITT BARTON. UK
38	<b>INTRINSIC SAFETY BARRIERS &amp; RECEIVER SWITCHES</b>	MTL
		R. STAHL
		PEPPERL + FUCHS
		HANS TRUCK GMBH & CO. KG
39	<b>GAS &amp; FIRE DETECTION SYSTEM / PORTABLE GAS DETECTOR</b>	GENERAL MONITORS. UK
		DETECTION INSTRUMENTS (CROWCON),UK.
		DETECTOR ELECTRONICS CORPORATION.
		DRAGER SAFETY AG & CO. (GERMANY)
		OLDHAM (FRANCE)
		JOSEPH LESLIE DRAEGGER
		SAMRAD OPTRONICS ICARE (FRANCE)
		GASTECH INC (USA)
		INTERNATIONAL SENSOR TECHNOLOGY (USA)
		OLIVER IGD LTD. UK
		SEIGER, U.K.
		HONEYWELL AUTOMATION INDIA LTD (HAIL)
		YOKOGAWA INDUSTRIAL SAFETY SYSTEM
		HAVEN AUTOMATION
		DELPHIAN
		NOHMI BOSAI
		G.P. ELLIOT
		SAFETY SYSTEMS
		ICS
		MSA (INDIA) LTD.
40	<b>SMOKE/ THERMAL DETECTORS</b>	APOLLO
		THORN
		ZELLWEGER
41	<b>MANUAL CALL POINT (FOR FIRESTATION)</b>	APPOLO
		VIJAY FIRE
		SIMPLEX
		NEW FIRE
		MEDC

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		SAFETY SYSTEMS
42	I/P CONVERTERS	MTL INSTRUMENTS PVT LTD.
		ABB AUTOMATION LTD.
		YOKOGAWA INDIA LIMITED
		GOULD ,USA
		HARTMAN & BRAUN
		MASONEILAN
		MOORE CONTROLS (P) LTD
		BAILEY CONTROLS
		EMERSON PROCESS CONTROLS.
		IMI WATSON SMITH LTD
		SHREYAS INSTRUMENTS PVT. LTD.
		THERMO BRANDT INSTRUMENTS
43	AIR FILTER REGULATORS	SHAVO NORGREN (I) PVT LTD., BOMBAY
		PLACKA INSTRUMENTS (P) & CONTROLS, MADRAS
		ABB INSTRUMENTATION LTD.
		MASONEILAN, INDIA
		FISHER XOMOX
		DRESSER VALVE INDIA PVT. LTD.
		BIFOLD FLUID POWER LIMITED
		EMERSON PROCESS MANAGEMENT
		DIVYA CONTROL ELEMENTS PVT. LTD.
		JANATICS INDIA PVT. LTD.
		SCHRADER DUNCAN LTD.
		SHAH PNEUMATICS
		V AUTOMAT & INSTRUMENTS PVT LTD.
		VELJAN HYDRAIR PVT LTD.
44	SOLENOID VALVES	AVCON CONTROLS PVT LTD, BOMBAY
		ROTEX MFRS. & ENGRS. PVT. LTD., BOMBAY
		ASCO
		MAXSEAL USA.
		SKINNER USA.
		VERSA BV, NETHERLAND
		BLACKBOROUGH
		HERION WERKE
		BIFOLD FLUID POWER LIMITED
		ALCON ALEXANDER CONTROLS LIMITED
		PRECISION INSTRUMENTS COMPANY
		ROTEX AUTOMATION LTD
		SCHRADER DUNCAN LTD.
45	CONTROL VALVES-BODY TYPE GLOBE AND ANGLE/BUTTERFLY BODY	SAMSON CONTROLS PVT. LTD.
		FISHER XOMOX LTD.
		INSTRUMENTATION LIMITED, PALGHAT

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		CONTINENTAL VALVE LTD. MIL CONTROL LTD. NEILS JAMESBURY (BODY TYPE GLOBE AND ANGLE) DRESSER VALVE INDIA PVT. LTD. KOSO INDIA PRIVATE LTD. MOTOYAMA ENGG. WORKS LTD. JAPAN ABB INSTRUMENTATION LTD. (BODY TYPE GLOBE AND ANGLE) WEIR VALVES & CONTROLS LTD. BLAKE BOROUGH (BODY TYPE GLOBE AND ANGLE) KOSO FLUID CONTROLS PVT LTD METSO AUTOMATION PTE LTD. SPX VALVES AND CONTROLS, USA. ARCA REGLER GMBH DRESSER PRODUITS INDUSTRIELS FORBES MARSHALL ARCA P LTD ITALVALV S.N.C KENT INTROL PVT LTD KENT INTROL U.K LTD NUOVO PIGNONE SPA SEVERN GLOCON LTD
46	<b>ON-OFF VALVES (BALL VALVES)</b>	MICROFINISH VALVES PVT. LTD. VIRGO ENGINEERS PVT. LTD. ELOMATIC PVT. LTD. NUOVO PIGNONE SPA. WEIR VALVES AND CONTROLS, UK TYCO VALVES AND CONTROLS INDIA PVT. LTD. KITAMURA VALVE MFG. CO. LTD. JAPAN METSO AUTOMATION PTE LTD. USA DRESSER ITALLIA, ITALY AUDCO, INDIA GROVE, ITALIA NEILS JAMESBURY HINDLE COCKBURNS LTD (TYCO GROUPS) COOPER CAMERON VALVE ITALY ITALVALV S.N.C KOSO FLUID CONTROLS PVT LTD PIBIVIESSE S.P.A
47	<b>ON-OFF VALVES (BUTTERFLY BODY)</b>	TYCO VALVES & CONTROLS INDIA PVT. LTD. INSTRUMENTATION LTD., PALGHAT NUOVO PIGNONE SPA ELOMATIC PVT LTD. CONTINENTAL VALVE LTD.

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		MOTOYAMA ENGG, WORKS LTD. JAPAN
		METSO AUTOMATION PTE LTD.
		ITALVALV S.N.C
		KOSO FLUID CONTROLS PVT LTD
		COOPER CAMERON VALVE ITALY
48	ON-OFF VALVES (PLUG)	SPX VALVES AND CONTROLS
		DRESSER ITALIA
		FLOSERVE PTE, LTD.
		COOPER CAMERON VALVE ITALY
49	ON-OFF VALVES (GATE)	SPX VALVES AND CONTROLS
		COOPER CAMERON SINGAPORE PTE LTD.
		WEIR VALVES AND CONTROLS
		KOSO FLUID CONTROLS PVT LTD
		COOPER CAMERON VALVE ITALY
50	SELF ACTUATED PRESSURE CONTROL VALVES	FISHER CONTROLS / FISHER SANMAR
		DRESSER MASONEILAN
		ESME
		WEIR VALVES & CONTROLS LTD. (HOPKINSONS LTD)
		ELECTRICAL STEAM & MINING EQUIPMENT LTD,
		DRESSER VALVE INDIA PVT. LTD.
		JORDAN VALVE
		DANIEL MEASUREMENT & CONTROL ASIA PACIFIC
		ELSTER-INSTROMET NV-FORMAR 1563
		EMERSON PROCESS MGMT. ASIA PACIFIC PTE. LTD.
		GORTER CONTROLS B.V.
		KAYE & MACDONALD INC.
		NIRMAL INDUSTRIAL CONTROL PVT LTD
		NUOVOPIGNONE SPA
		PIETRO FIORENTINI SPA
		RICHARDS INDUSTRIES
		RMG REGEL + MESSTECHNIK GMBH
		SAMSON AG MESS-UND REGELTECHNIK
51	HIGH PRESSURE CONTROL VALVES (HCV)	DRESSER MASONEILAN
		MOKVELD
		FISHER CONTROLS (NOW EMERSON)
		KENT PROCESS CONTROL LTD
		CONTROL COMPONENT INC.
		WEIR VALVES & CONTROLS UK LTD.
		KOSON PROCESS CONTROLS
52	ACTUATOR (FOR SHUTDOWN VALVES)	BETTIS
		ROTORK
		BIFFI
		EL-O-MATIC

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53	LIMIT SWITCHES	BETTIS
		HONEYWELL AUTOMATION INDIA LTD. (HAIL)
54	DELUGE VALVE WITH TEST FACILITY	GEORGE KENT
		WORMALD
		CLA-VAL
		HD FIRE PROTECT PVT. LTD. (HYDRAULICALLY OPERATED)
55	JUNCTION BOXES & CABLE GLANDS	FLEXPOR ELEC., PVT. LIMITED
		BALIGA LIGHTING EQUIPMENT LTD.
		EX PROTECTA
		FLAMEPROOF CONTROL GEARS, BOMBAY
		CEAG FLAMEPROOF CONTROL GEARS PVT. LIMITED
56	INSTRUMENTATION CABLES (ALARM, SIGNAL, CONTROL & THERMO COUPLE EXTN. CABLES)	POLY CABLE WIRES PVT. LTD
		SUYOG ELECTRICALS LTD.
		ASSOCIATED CABLES PVT. LIMITED
		ASSOCIATED FLEXIBLES & WIRES (P) LTD.
		UNIVERSAL CABLES LTD.
		RELIANCE ENGINEERS LTD.
		BROOKS CABLES WORKS, MUMBAI
		DELTON CABLES LTD
		INCAB INDUSTRIES LTD.
		NICCO CORPORATION LTD.
		ASIAN CABLES
		CMI LIMITED
		CORDS CABLE INDUSTRIES LTD
		ELKAY TELELINKS LTD.
		FINE CORE CABLE PVT LTD.
		PARAMOUNT COMMUNICATIONS LTD.
		RADIANTCABLE PVT LTD.
		THERMO CABLES LTD.
		KEI INDUSTRIES LTD.
		GOYOLENE FIBRES INDIA PVT. LTD.
57	COMMUNICATION CABLES	ASSOCIATED CABLES (P) LIMITED
		ASSOCIATED FLEXIBLE AND WIRES (P) LIMITED
		UNIVERSAL CABLES
		UDAY PYRO CABLE PVT. LIMITED
		BROOKS CABLE WORKS
		INCAB INDUSTRIES LIMITED
		TORRENT CABLES
		PROCON, PUNE
		KEI INDUSTRIES LTD.,MUMBAI
		JINRO INDUSTRIES,
		NEXANS-S.A

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"Construction of Oil Collecting Station(OCS)  
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		CORDS CABLE INDUSTRIES LTD
		DELTON CABLES LTD(SUPPLY FROM DHARUHERA WORKS)
		ELKAY TELELINKS LTD, Faridabad
		BIRLA ERICSSON OPTICAL LTD (Jelly Filled)
		CMI LTD
		FINOLEX CABLES LTD (Jelly Filled) - PIMRI WORKS, PUNE
		KEC INTERNATIONAL LTD (FORM. R133) (Jelly Filled)
		VINDHYA TELELINKS LTD (Jelly Filled)
58	OPTICAL FIBRE CABLE	BIRLA ERICSSON OPTICAL LTD.
		STERLITE TECHNOLOGIES LTD.
		UNIFLEX CABLES LTD.
		HIMACHAL FUTURISTIC COMMUNICATION LTD.
		UM CABLES LTD.
		VIDYA TELELINKS LTD.
59	FRP CABLE TRAYS	SUPER REINFORCED PLASTICS ASSOCIATED ENGG. CORP, MUMBAI
		GRIP INDIA, MUMBAI
		SSB INDUSTRIES, BANGALORE
		ERCON COMPOSITES, JODHPUR.
60	INSTRUMENT FITTINGS (SS –TUBE AND TUBE FITTING)	SWAGELOK INDIA
		PARKER, INDIA
		ASTEC, MUMBAI
		DK TECH CORPORATION
		HAM-LET ADVANCED CONTROL TECHNOLOGY
		PRECISION ENGINEERING INDUSTRIES, MUMBAI
		FLUID CONTROL PVT. LTD., MUMBAI
		HY-LOK CORPORATION
61	FUSIBLE PLUGS	e-PRODUCTIONS SOLUTION
		SIGMA
		RUELCO
62	ERECTION HARDWARE	HYDAIR ENGG WORKS, BOMBAY
		RELIANCE ENGG & ELECT CORPN, NEW DELHI
		EXCELSIOR ENGG WORKS, BOMBAY
		TECHNOMATIC CONTROLS PVT. LIMITED
		MULTIMETAL INDUSTRIES, BARODA
		EX-PROTECTA
		FLEXPRO
		FLAME PROOF CONTROL GEARS, MUMBAI
63	REMOTE IGNITOR	AIROIL-FLAREGAS (INDIA) LIMITED
		V.AUTOMAT & INSTRUMENTS PVT LIMITED, INDIA.
		COMBUSTION CONTROL ENGINEERS, INDIA
		SAMIA, ITALY.
64	FLAME ARRESTORS	PETROL SERVICE



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		GROTH EQUIPMENT CORPORATION
		GPE CONTROLS
		BRAUNSCH WEIGR FLAMMENFILTER,GMBH, WG
		WHERSOC, S.A.
		SHAND & JURS
		MARVAC
		SAFETY SYSTEM
		PROTEGO EQUIPMENTS PVT.LTD
65	PH METER	YOKOGAWA ELECTRICAL COPORATION
		I.T.T. BARTON
		EMERSON PROCESS MANAGEMENT INDIA PVT.
		PIECO ELECTRONICS & ELECTRICALSLTD.
		SOLARTRON TRANSDUCERS
		ZELEWEGER SA
66	DEW POINT MONITOR	PANAMETRICS
		SHAW, U.K.
		D U PONT.
		SOLARTRON TRANSDUCERS.
67	B&SW MONITOR/ WATER CUT METER	EMERSON PROCESS MANAGEMENT
		EESIFLO INTERNATIONAL PTE LTD., SINGAPORE
		HYDRYL
		SOLARTRON TRANSDUCERS
		SENTECH
68	CONDUCTIVITY ANALYSER	ABB AUTOMATION LTD
		EMERSON PROCESS MANAGEMENT ASIA PACIFIC PTE INDIA
		FORBES POLYMETRON PVT LTD.
		INVENSYS INDIA PRIVATE LIMITED
		HONEYWELL INC.
69	WATER QUALITY ANALYSER	ABB AUTOMATION LTD
		EMERSON PROCESS MANAGEMENT ASIA PACIFIC PTE INDIA
		FORBES POLYMETRON PVT LTD.
		BRISTOL BABCOCK, AUSTRALIA
		SERES, FRANCE
		TELEDYNE TEKMAR, USE
		IONIC, USA
		THERMONIX LTD. UK
		ZELEWEGER SA, FRANCE
70	OXYGEN ANALYSER	ABB AUTOMATION LTD
		EMERSON PROCESS MANAGEMENT ASIA PACIFIC PTE INDIA
		ZELEWEGER SA, FRANCE
		AMETEX,USA



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		EMP COMPANY INC. USA,
		PANAMETRICS LTD, IRELAND
		SECO CONTROLS PVT. LTD.
		SYSTECH INSTRUMENTS, UK
		ORBI SPHERE (HACH ULTRA ANALYTICS)
71	CHLORINE ANALYZER	EMERSON PROCESS MANAGEMENT
72	PROCESS GAS ANALYSER	ABB AUTOMATION LTD
		PANAMETRICS LTD, IRELAND
		SERVOMAX PLC, TAIWAN
		SICK MAIHAK, GERMANY
		MSA (INDIA) LTD.
73	SPECIFIC GRAVITY ANALYZER	BOPP & REUTHER MESSTECHNIK GMBH, GERMANY
		EMERSON PROCESS MANAGEMENT
		THERMO MEASUREMENT, UK
		EMERSON PROCESS, SINGAPORE
		ENDRESS-HAUSSER, GERMANY
		YOKOGAWA INDIA LIMITED
		CHEMTROL ENGINEERING WORKS
74	VISCOSITY ANALYSER	SOLARTON MOBREY LTD., UK
		SERES, FRANCE
		ENDRESS-HAUSSER, GERMANY
		PEEK MEASUREMENT, UK / USA
75	HYDROGEN ANALYSER	SIEMENS APPLIED AUTOMATION, USA
		AMETEK, USA
		FLUID DATA (NOW NAMED THERMO ONIZ LTD.), UK
		EMERSON PROCESS MANAGEMENT
		MINE SAFETY APPLIANCES, USA
		PANAMETRIC LTD., IRELAND
76	MOISTURE ANALYZER SYSTEM INTEGRATOR	CHEMTROL INDUSTRIES LTD.(WITH AMTEK MAKE MOISTURE ANALYZER)
77	MACHINE MONITORING SYSEM	BENTLY-NEVADA
		ENTEK IRD INTERNATIONAL (INDIA) LTD., USA
		SKF CONDITION MONITORING INCL, USA
		SHINKAWA ELECTRIC COMPANY LIMITED, JAPAN
		ROCKWELL AUTOMATION INDIA PVT LTD
78	CCTV	PHILIPS
		ECIL
		NELCO LTD
		AMERICAN DYNAMICS
		PELCO
		HONEYWELL
		VICON
		BOSCH



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		HERNIS
79	TELEMETRY INTERFACE CABINET	MARINE ELECTRICALS, MUMBAI
		FABRICON, MUMBAI
		SWITCH GEARS & CONTROL, MUMBAI
		MARINE DELIGHT, CALCUTTA
		YOKOGAWA INDIA LIMITED
		e-PRODUCTION SOLUTION
		ELEC. MECH. CORPORATION, MUMBAI
80	DISTRIBUTED CONTROL SYSTEM	FOXBORO (INVENSYS)
		BAILEY CONTROLS
		TOSHIBA
		HONEYWELL AUTOMATION INDIA LTD (HAIL)
		YOKOGAWA INDIA LIMITED
		EMERSON PROCESS MANAGEMENT
		ABB
81	PROGRAMMABLE LOGIC CONTROLLER (PLC SUBSYSTEM)	YOKOGAWA INDIA LTD.
		ALLEN BRADLEY
		GE FANUC SYSTEMS PVT LTD.
		SIEMENS
		CEGELEC
		TATA-HONEYWELL
		BAILEY CONTROL USA
		ROCKWELL AUTOMATION
		ALSTOM PROJECTS INDIA
		HONEYWELL AUTOMATION INDIA LTD
		ABB
		HIMA PAUL HIDEBRANDT GMBH
		TRICONIX (ONLY TUV APPROVED APPLICATIONS)
		BRISTOL BABCOCK
		EMERSON PROCESS MANAGEMENT ( INDIA) PVT LTD.
		ICS TRIPLEX
		LARSON AND TOUBRO LTD
		SCHNEIDER ELECTRIC INDIA PVT LTD
82	PORTABLE CALIBRATOR	FLUKE
		DRUCK (NOW GE SENSING)
		BEAMAX
83	AUTO SAMPLER	JISKOOT LTD, UK
		CLIFF MOCK
		WELKER ENGINEERING COMPANY PTE LTD, SINGAPORE
84	DRAFT GAUGES	AN INSTRUMENTS PVT LTD INDIA
		BADOTHERM PROCESS INSTRUMENTS B.V. NETHERLANDS
		BOURDON HAENNI S.A FRANCE



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"Construction of Oil Collecting Station(OCS)  
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		BUDENBERG GAUGE CO. LTD U.K.
		DRESSER INC. U.S.A
		GENERAL INSTRUMENTS CONSORTIUM INDIA
		NAGANO KEIKI SEISAKUSHO LTD JAPAN
		SWITZER INSTRUMENT LTD INDIA
		WIKA ALEXANDER WIEGAND & CO GMBH GERMANY
85	FLOW ELEMENTS (VENTURI, FLOW NOZZLES)	FMC MEASUREMENT SOLUTIONS-UK U.K.
		GENERAL INSTRUMENTS CONSORTIUM INDIA
		INSTRUMENTATION LTD. (PALGHAT) INDIA
		MICRO PRECISION PRODUCTS PVT LTD INDIA
		STAR-MECH CONTROLS (INDIA) PVT LTD INDIA
		TM TECNOMATIC SPA
86	INSTRUMENT VALVES & MANIFOLDS	ANDERSON GREENWOOD CROSBY U.S.A.
		ASTEC VALVES & FITTINGS PVT. LTD. INDIA
		AURA INC. INDIA
		AUTOCLAVE ENGINEERS FLUID COMPONENTS U.S.A.
		CHEMTROLS ENGINEERING LTD INDIA
		CIRCOR INSTRUMENTATION LTD(FORM. H608) U.K.
		EXCEL HYDRO PNEUMATICS PVT LTD INDIA
		EXCELSIOR ENGG. WORKS INDIA
		HAM-LET (ISRAEL-CANADA) LTD. ISRAEL
		HYD-AIR ENGG. WORKS LONAVLA INDIA
		MICRO PRECISION PRODUCTS PVT LTD INDIA
		PARKER HANNIFIN CORPORATION U.S.A.
		PRECISION ENGINEERING INDUSTRIES INDIA
		PRIME ENGINEERS INDIA
		SWAGELOK CO. U.S.A.
		SWASTIK ENGINEERING WORKS INDIA
		TECNOMATIC INDIA PVT LTD INDIA
87	PILOT OPERATED SAFETY VALVE	ANDERSON GREENWOOD CROSBY U.S.A.
		CURTISS WRIGHT FLOW CONTROL CORPORATION USA, CANADA/UK
		DRESSER INC. U.S.A.
		SAFETY SYSTEMS UK LTD U.K.
		TAI MILANO SPA ITALY
		TYCO SANMAR LTD INDIA
		WEIR VALVES & CONTROLS FRANCE (FORM S791) FRANCE
88	PR.REGULATOR & SLAM SHUT VALVE	ELSTER-INSTRUMET NV-FORMER. I563 BELGIUM
		EMERSON PROCES MGMT ASIA PACIFIC PTE LTD SINGAPORE
		GORTER CONTROLS B.V. NETHERLANDS
		MOKVELD VALVES BV NETHERLANDS
		PIETRO FIORENTINI SPA ITALY

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"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		RMG REGEL+MESSTECHNIK GMBH GERMANY
89	SKIN THERMOCOUPLES	ABB AUTOMATION LTD U.K
		DAILY THERMETRICS U.S.A
		DETRIV INSTRUMENTATION & ELECTRONICS LTD INDIA
		GAYESCO LLC U.S.A
		GENERAL INSTRUMENTS CONSORTIUM INDIA
		JAPAN THERMOWELL CO LTD JAPAN
		NAGMAN SENSORS PVT LTD INDIA
		PYRO-ELECTRIC INSTRUMENTS GOA PVT LTD INDIA
		THERMO ELECTRIC CO. INC. U.S.A
		THERMO-COUPLE PRODUCTS CO U.S.A
		THERMO-ELECTRA B.V NETHERLANDS
		TM TECNOMATIC SPA ITALY
90	SPECIAL CONTROL VALVES	DRESSER PRODUITS INDUSTRIELS FRANCE
		DRESSER VALVE INDIA PVT LTD INDIA
		EMERSON PROCES MGMT ASIA PACIFIC PTE LTD SINGAPORE
		FLOWSERVE PTE LTD SINGAPORE
		ITALVALV S.N.C ITALY
		KITAMURA VALVE MANUFACTURING CO LTD JAPAN
		METSO AUTOMATION PTE LTD(FORMERLY NELES) U.K.
		MOTOYAMA ENGG WORKS LTD JAPAN
		NUOVO PIGNONE SPA (ITALY) (GE OILCO.) ITALY
		SAMSON AG MESS-UND REGELTECHNIK GERMANY
		SPX VALVES & CONTROLS (FORMERLY DEZURIK) U.S.A.
		WEIR VALVES & CONTROLS UK LTD U.K.
91	MAGNETIC LEVEL INSTRUMENTS	ASIAN INDUSTRIAL VALVES & INSTRUMENTS INDIA
		BLISS ANAND PVT LTD INDIA
		CHEMTROLS ENGINEERING LTD INDIA
		K-TEK CORPORATION U.S..A
		KLINGER FLUID CONTROL GMBH (FORM.R551) AUSTRIA
		KROHNE MESSTECHNIK GMBH & CO KG GERMANY
		KSR KUEBLER NIVEAUMESS-TECHNIK AG GERMANY
		LEVCON INSTRUMENTS PVT LTD INDIA
		MAGNETROL INTERNATIONAL N.V BELGIUM
		NIHON KLINGAGE CO LTD JAPAN
		PHOENIX SYSTEMLEMENTE UND MESSTECHNIK GERMANY
		PRATOLINA INSTRUMENTS PVT LTD INDIA
		TECNOMATIC INDIA PVT LTD INDIA
		V AUTOMAT & INSTRUMENTS PVT LTD INDIA
92	SPECIAL LEVEL INSTRUMENTS (RF TYPE)	AMETEK DREXELBROOK U.S.A
		ENDRESS + HAUSER GMBH & COMPANY GERMANY
		K-TEK CORPORATION U.S.A

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
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		MAGNETROL INTERNATIONAL N.V BELGIUM
		MOBREY LTD (FORM. S-578) ENGLAND
93	SPEED TRANSMITTERS	ASEA BROWN BOVERY LIMITED SWITZERLAND
		HANS TURCK GMBH & CO. KG GERMANY
		JAPAN SERVO CO LTD JAPAN
		PEPPERL + FUCHS GMBH GERMANY
94	SPL. LEVEL INSTRUMENTS-GUIDED WAVE RADAR	EMERSON PROCESS MANAGEMENT INDIA PVT LTD INDIA
		ENDRESS + HAUSER GMBH & COMPANY GERMANY
		K-TEK CORPORATION U.S.A.
		KROHNE MESSTECHNIK GMBH & CO KG GERMANY
		L & J TECHNOLOGIES U.S.A.
		MAGNETROL INTERNATIONAL N.V BELGIUM
		TOKYO KEISO CO LTD JAPAN
95	TEMPERATURE RECORDERS	ABB AUTOMATION LTD U.K.
		HONEYWELL INC U.S.A
		INVENSYS SOFTWARE SYSTEMS (S) PTE LTD SINGAPORE
		YAMATAKE CORPORATION LTD. JAPAN
		YOKOGAWA ELECTRIC CORPORATION JAPAN
		YOKOGAWA INDIA LTD. INDIA
96	RUPTURE DISCS	BS & B SAFETY SYSTEMS (INDIA) LTD INDIA
		BS&B SAFETY SYSTEMS INC U.S.A.
		ELFAB HUGHES LTD U.K
		FIKE EUROPE N.V. BELGIUM
		OKLAHOMA SAFETY EQUIPMENTS CO. INC. SINGAPORE
		REMBE GMBH SAFETY+CONTROL GERMANY
		SAFETY SYSTEMS UK LTD (MARSTON DIVN) U.K.
97	PLANT COMMUNICATION SYSTEM	INDUSTRONIC GMBH
		NEUMAN ELEKTRONIK GMBH & CO
		SIEMENS AG
		FEDERAL SIGNAL CORPORATION
98	FIRE ALARM SYSTEMS	HONEYWELL AUTOMATION INDIA LTD -FORM .T115 (H150)
		NEW FIRE ENGINEERS (P) LTD (N075)
		TYCO FIRE & SECURITY INDIA PVT LTD (T026)
		UTC FIE & SECUTIRY INDIA LTD -FORM. K125 (U115)
99	SPECIAL LEVEL INSTRUMENTS (TUNNING FORK)	AMETEK DREXELBROOK U.S.A.
		ENDRESS + HAUSER GMBH & COMPANY GERMANY
		K-TEK CORPORATION U.S.A.
		MOBREY LTD (FORM. S-578) ENGLAND
		NIVO CONTROLS PVT LTD INDIA
		VEGA GRIESHABER KG GMBH GERMANY
		VENTURE MEASUREMENT COMPANY U.S.A.
<b>ELECTRICALS</b>		
<b>S. No</b>	<b>EQUIPMENT</b>	<b>VENDOR</b>



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"Construction of Oil Collecting Station(OCS)  
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1	<b>BATTERY (NI-CD / LEAD ACID/ VRLA)</b>	M/s EXIDE INDUSTRIES LIMITED
		M/s STANDARD
		M/s AMCO SAFT INDIA LTD
		M/s SABNIFE
		M/s AMARA RAJA POWRER SYSTEMS (P) LTD
		M/s CHLORIDE SYSTEM, UK/France
		M/s HBL POWER SYSTEMS LTD
		M/s FUJI,JAPAN
		M/s YUASA , JAPAN
		M/s SAFT POWER SYSTEM, USA
		M/s KIRLOSKAR BATTERIES PVT LTD
2	<b>UPS SYSTEM</b>	M/s DB POWER ELECTRONICS (P) LTD
		M/s TATA LEIBERT
		M/s HI-REL ELECTRONICS PVT LTD
		M/s INSTRUMENTATION LTD.
		M/s AMARA RAJA
		M/s SABNIFE
		M/s SIEMENS LTD
		M/S STAND BY POWER , USA
		M/s CHLORIDE SYSTEM , UK/ FRANCE
		M/s FUJI , JAPAN
		M/s GUTOR, SWITZERLAND.
		M/s EMERSON, USA
		M/s APLAB LIMITED, THANE
		M/s EMERSON NETWORK POWER (I) PVT LTD
3	<b>PROTECTION RELAY</b>	M/s ALSTOM
		M/s ABB LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/S EASUN REYROLLE LTD
		M/S AREVA T&D INDIA LTD
		M/S LARSEN & TOUBRO LTD
		M/s SIEMENS LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
4	<b>EARTH LEAKAGE RELAY</b>	M/s DATAR SWITCHGEAR PVT LTD
		M/s HH ELECON
		M/s OZR
		M/s PRAYOG.
5	<b>AUXILIARYRELAY</b>	M/s ABB LTD
		M/s JYOTI LTD
		M/s ALSTOM
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/S AREVA T&D INDIA LTD (T&D GROUP)
6	<b>LT SWITCHGEAR</b>	M/s SIEMENS LTD

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"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		M/s LARSEN & TOUBRO LTD
		M/s SCHNEIDER ELECTRIC LTD
		M/s ALSTOM
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s TERASAKI, SINGAPUR/JAPAN
		M/s FUJI LTD
		M/s HITACHI
		M/s GE COMPANY UK
7	CONTROL SWITCH	M/s ABB LTD
		M/s LARSEN & TOUBRO LTD
		M/s CGL
		M/s KAYCEE INDUSTRIES LTD
		M/s SIEMENS LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s THAKORE
		M/s ESSEN
		M/s BCH ELECTRIC LTD
		M/S RELIABLE ELECTRONIC COMPONENTS PVT LTD
		M/S SWITRON DEVICES
		M/S HOTLINE SWITCHGEAR & CONTROLS
		M/S AREAVA T&D, India LTD
8	TIMER	M/s SIEMENS LTD
		M/s LARSEN & TOUBRO LTD
		M/s G I C
		M/s MINILEC.
		M/s BCH ELECTRIC
		M/s ELECON CLIPSAL
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/S ELECTRONIC AUTOMATION PVT LTD
9	INSTRUMENT & METER	M/s LARSEN & TOUBRO LTD
		M/s AUTOMATIC ELECTRIC LTD
		M/s ALSTOM
		M/s MECO INSTRUMENTS PVT LTD
		M/s IMP
		M/s SIMCO
		M/s UNIVERSAL ELECTRIC
		M/s RISHAB INSTRUMENTS PVT LTD
		M/s SECURE
		M/s CROMPTON
		M/S NIPPEN ELECTRICAL INSTRUMENTS PVT LTD
10	LDB / MLDB / DCDB	M/s ABB LTD
		M/s ALSTOM
		M/s MDS



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"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



		M/s INDO ASIAN SWITCHGEARS
		M/s UNIVERSAL ELECTRICS
		M/s ELECMECH SWITCHGEARS & INSTRUMENTATION
		M/s SIEMENS LTD
		M/s STANDARD
		M/s SCHNEIDER ELECTRIC INDIA LTD
		M/s HAVELLS
		M/s G E POWER CONTROLS
		M/s MORARJI DORMAN, MUMBAI
		M/s VERSATRIP CIRCUIT BREAKER MFG. LTD, MUMBAI
		M/s BCH ELECTRIC LTD
		M/s REUNION ENGG, MUMBAI
		M/s FABRICATIONS, MUMBAI
		M/s WILSON & CO. INDIA.
		M/S C & S ELECTRIC LTD
		M/S CONTROL & SCHEMATICS LTD
		M/S GE INDUSTRIAL PVT LTD
		M/S LARSEN & TOUBRO LTD
		M/S M K ENGINEERS & CONTROLS PVT LTD
11	<b>EARTH LEAKAGE CIRCUIT BREAKER</b>	M/s DATAR
		M/s INDO-ASIAN FUSEGEAR LTD
		M/s MDS
		M/S HAVELLS INDIA LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s SIEMENS LTD
		M/s LARSEN & TOUBRO LTD HAGER
		M/s SCHNEIDER ELECTRIC INDIA LTD.
		M/s ELECON CLIPSAL
		M/s ABB LTD
		M/S LEGRANT (INDIA) PVT LTD
12	<b>CABLE POWER (HV &amp; MV) &amp; CONTROL</b>	M/s ASIAN CABLE & INDUSTRIES LTD
		M/s CABLE CORPORATION OF INDIA LTD
		M/s FORT GLOSTER INDUSTRIES LTD
		M/s INDUSTRIAL CABLES (I) LTD
		M/s UNIVERSAL CABLES LTD
		M/s TORRENT CABLES LTD
		M/s INCAB
		M/s FINOLEX CABLES LTD
		M/s NICCO CORPORATION LTD
		M/s RALISON ELECTRICAL PVT. LTD., NEW DELHI
		M/s KEI INDUSTRIES LTD MUMBAI
		M/s KUKDONG ELECTRIC , KOREA
		M/s PIRELLI, ITALY

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"Construction of Oil Collecting Station(OCS)  
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		M/s POLYCAB WIRES PVT LTD, MUMBAI
		M/s ASSOCIATED FLEXIBLES AND WIRES
		M/s RPG CABLE CO.
		M/S HAVELLS INDIA LTD
		M/S KEC INTERNATIONAL LTD
		M/S CORD CABLE INDUSTRIES LTD
		M/S GEMSCAB INDUSTRIES LTD
		M/S ASSOCIATED CABLES LTD
		M/S CMI LTD
		M/S DELTON CABLES LTD
		M/S EVERSHINE ELECTRICALS
		M/S ELKAY TELELINKS LTD
		M/S ECO CABLES PVT LTD
		M/S NORTH EASTERN CABLES PVT LTD
		M/S PARAMOUNT COMUNICATION LTD
		M/S SRIRAM CABLES PVT LTD
		M/S SCOT INNOVATION WIRES & CABLES PVT LTD
		M/S SUYOG ELECTRICALS LTD
		M/S THERMO CABLES LTD
13	<b>CABLE GLAND</b>	M/s VICTORY
		M/s ALAKH
		M/s BEECO
		M/s FCG
		M/s COMET
		M/s HMI
		M/s POWER ENGG.
		M/S DAEBONG ACROTEC CO.LTD
		M/S DAEKYUNG MACHINERY & ENGINEERING CO.LTD
		M/S DAEKYUNG TECHNOS CO LTD (SOUTH KOREA)
		M/S HITACHI ZOSEN COORPORATION
		M/S KNM PROCESS SYSTEMS SDN BHD
		M/S ROLLE. S.P.A.
		M/S SUNGJIN GEOTECHCO LTD
		M/S WELDERS NV
		M/S SUDHIR SWTICHGEAR PVT LTD
		M/S STANDARD METAL INDUSTRIES
		HAZARDOUS AREA
14	<b>CABLE LUG</b>	M/s DOWELLS
		M/s USHA ISMAL
		M/s JENSON
15	<b>METAL CLAD PLUG &amp; SOCKET (INCLUDING WELDING SOCKET)</b>	M/s BHARTIA CUTLER HAMMER
		M/s BEST & CROMPTON
		M/s SCHNEIDER ELECTRIC INDIA LTD

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"Construction of Oil Collecting Station(OCS)  
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		M/s RB (RYROL BURN)
16	<b>FLAMEPROOF PLUG / SOCKET / HAND-LAMP(DGMS approved with approval No. and certificate for specific model type)</b>	M/S BALIGA LIGHTING EQUIPMENTS (P) LIMITED
		M/S FLEXPOR ELECTRICAL PVT LTD
		M/S FLAMPOROF EQUIPMENTS PVT LTD
		M/S FCG POWER INDUSTRIES PVT LTD
		M/S FCG FLAMPOROF CONTROL GEARS P LTD
		M/S GOVAN INDUSTRIES (INDIA) P LTD
		M/S SUDHIR SWITCHGEARS PVT LTD
17	<b>LIGHT FIXTURE (NON FLAME PROOF)</b>	M/s PHILIPS ELECTRONICS INDIA LTD
		M/s CROMPTON GREAVES LTD
		M/s BAJAJ ELECTRICALS LTD
		MANUFACTURER: M/S G S GURGAON
18	<b>HRC FUSE / BASE</b>	M/s GEC ALSTOM,
		M/s SEIMENS LTD
		M/s LARSEN &TOUBRO LTD
		M/s HH ELECON
		M/S COOPER BUSSMAN INDIA PVT LTD
		M/S GE INDIA INDUSRIAL PVT LTD
		M/S INDO ASIAN INDUSTRIAL PVT LTD
19	<b>INDICATING LAMP / FITTING</b>	M/s TELEMIX
		M/s SEIMENS LTD
		M/s LARSEN &TOUBRO LTD
		M/s RAS CONTROLS
		M/S ESSEN DEINK
		M/S HOTLINE SWITCHGEAR & CONTROLS
		M/S PRECIFINE PRODUCTS PVT LTD
		M/SSHRI TULSI SWITCHGEARS PVT LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
		M/S TEKNIC CONTROLS
20	<b>TERMINAL BLOCK</b>	M/s ELMEX
		M/s TOUSHA
		M/s THERMOPLAST
		M/s CONNECT WELL
21	<b>415V SWITCHGEAR PANEL (PMCC / MCC)</b>	M/s LARSEN &TOUBRO LTD
		M/s SIEMENS LTD
		M/s SCHNEIDER ELECTRIC INDIA LTD
		M/s ALSTOM
		M/s ELECMECH SWITCHGEARS & INSTRUMENTATION
		M/s G E POWER CONTROLS
		M/S ABB LTD
		M/S BCH ELECTRIC LTD
		M/S C & S ELECTRIC LTD
		M/S CONTROLS & SCHEMATICS LTD

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"Construction of Oil Collecting Station(OCS)  
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		M/S GE INDIA INDUSTRIAL PVT LTD
		M/s L K Nes Singapur
		M/s Pan Electric
		M/s Terasaki, Singapur/Japan
		M/s Hitachi
		M/s HELCO
		M/s IME Quadri, USA
		M/s Nuovo Magini, Italy
		M/s AUTOMATIC ELECTRIC LTD
		M/s KAPPA ELECTRICALS
		M/s INDCOIL TRANSFORMERS PVT LTD
		M/s VOLTAMP TRANSFORMERS LTD
		M/s LOGIC CONTROLS
		M/s ABB LTD
		M/s JYOTI
		M/s PRAYOG ELECTRICALS
		M/s GILBERT & MAXWELL
		M/s PRECISE ELECTRICAL
		M/s PRAGATI ELE CTRICAL PVT LTD
		M/s LARSEN & TOUBRO LTD
		M/s ASHMOR
		M/s NIKSAN
		M/s SIEMENS LTD
		M/s ALSTOM
		M/s CONTROLS & SWITCHGEAR LTD.
		M/S GUJARAT PLUG IN DEVICES PVT LTD
		M/S AREVA T & D INDIA LTD (T & D GROUP)
		M/S ELECTRICALS CONTROLS & SYSTEMS
		M/S KALPA ELECTRICAL PVT LTD
		M/S GILBERT & MAXWELL ELECTRICAL PVT LTD
		M/S NARYAN POWERTECH PVT LTD
		M/S SILKANNA ELECTRICALS MFG. CO.PVT. LTD
22	<b>TRANSFORMER (LTG / CONTROL / POTENTIAL / CURRENT / AUTO)</b>	M/s LARSEN & TOUBRO LTD
		M/s SIEMENS LTD
		M/s ALSTOM
		M/s SCHNEIDER ELECTRIC INDIA LTD.
		M/s ABB LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/S C&S ELECTRIC LTD
		M/s TERASAKI, SINGAPUR/JAPAN
		M/s FUJI
		M/s GE COMPANY, UK
		M/S HITACHI



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"Construction of Oil Collecting Station(OCS)  
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24	<b>AUTO TRANSFORMER STARTER</b>	M/s LARSEN & TOUBRO LTD
		M/s SIEMENS LTD
		M/s ALSTOM
		M/s ELECMECH SWITCHGEARS & INSTRUMENTATION
		M/s BCH
25	<b>BATTERY CHARGER</b>	M/s CHHABI ELECTRICAL PVT LTD
		M/s AUTOMATIC ELECTRIC LTD
		M/s SAB-NIFE POWER SYSTEMS LTD
		M/s UNITED ELECTRIC
		M/s ELCOT POWER CONTROLS LTD
		M/s SERVILINK
		M/s USHA
		M/s INTERNATIONAL RECTIFIER
		M/s UNIVERSAL INDUSTRIAL PRODUCTS
		M/s SAB –NIFE, SWEDEN
		M/s STANDBY POWER SYSTEM, USA
		M/s YUASA, JAPAN
		M/s CHLORIDE SYSTEM, UK/France
		M/s GUTOR, SWITZERLAND
		M/s FUJI, JAPAN
		M/s EMERSON, USA
		M/s SAFT POWER SYSTEM, USA
		M/S AMARA RAJA POWER SYSTEMS (P) LTD
		M/S CALDYNE AUTOMATICS LTD
		M/S DUBAS ENGINEERING PVT LTD
		M/S HBL POWER SYSTEMS LTD
		M/S MASS TECH CONTROLS PVT LTD
		M/S UNIVERSAL INSTRUMENT MFG CO PVT LTD
26	<b>ENERGY METER</b>	M/s AUTOMATIC ELECTRIC LTD
		M/s ALSTOM / IMP / SIMCO
		M/s JAIPUR METALS & ELECTRICALS
		M/s LARSEN & TOUBRO LTD
		M/s GEB
		OR AEC approved vendor for main metering.
27	<b>TERMINATION / JOINTING KIT</b>	M/s CABLE CORPORATION OF INDIA LTD
		M/s RAYCHEM RPG LTD
		M/s M-SEAL
		M/s DENSON
		M/s PIDILITE
		M/S HEATSRINK TECHNOLOGIES LTD
		M/S THREE M ELCTRO & COMMUNICATION I.P. LTD
		M/S YAMUNA POWER & INFRASTRUCTURE LTD
28	<b>METAL CLAD SWITCH, DB</b>	M/s LARSEN & TOUBRO LTD

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"Construction of Oil Collecting Station(OCS)  
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	<b>WITH HRC / RE-WIRABLE FUSE,CHANGEVER SWITCH</b>	M/s SIEMENS LTD M/s GE India Industrial Pvt Ltd M/s CONTROL & SWITCHGEAR M/s ALSTOM M/s CROMPTON M/s ELECON-CLIPSAL M/s KEW M/s INDO-ASIAN M/s HAVELLS.
29	<b>LIGHTNING ARRESTOR</b>	M/s ELPRO INTERNATIONAL LTD M/s ALSTOM M/s OBLUM ELECTRICAL INDUSTRIES P LTD M/s LAMCO M/s ATLAS M/S CROMPTON GREAVES LTD M/S W.S. INSULATOR OF INDIA
30	<b>NEUTRAL GROUNDING RESISTOR</b>	M/s RSI SWITCHGEAR PVT LTD M/s BHARTIA CUTLER HAMMER LTD M/S RESITECH ELECTRICALS PVT LTD (HV) M/S S R NARKHEEDE ENGINEERING PVT LTD (HV)
31	<b>MOTOR</b>	M/s BHARAT BIJLEE LTD M/s CROMPTON GREAVESLTD M/s ALSTOM M/s NGEF M/s SIEMENS LTD M/s KIRLOSKAR ELECTRIC CO. LTD M/s ABB LTD M/S BHEL-BHOPAL M/S MARATHON ELECTRIC MOTOR LTD (RATING:UPTO 6.6KV) M/S LAXMI HYDRAULICS PVT LTD (MV-63 TO 315L) M/s LAWRENCE SCOTT ELECTRO MOTORS , UK M/s LOHER , GERMANY M/s FUJI ELECTRIC COMPANY LTD, JAPAN M/s PARSON PEEBLES , UK M/s ASI ROBICON, ITALY M/S ASEA BROWN BOVERY LTD (ABB LTD) M/S CEMP SRL M/S GENERAL ELECTRIC CANADA M/S HITACHI LTD M/S JEUMONT SA/FRAMATONE ANP M/S LLOYD DYNAMOWERKE GMBH & CO. KG M/S SIEMENS AG



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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		M/S TOSHIBA CORPORATION
		M/S WEG EQUIPAMENTOS ELETRICOS S.A.
32	<b>SUBMERSIBLE PUMP</b>	M/s KSB
		M/s KIRLOSKAR
		M/s CALAMA
		M/s VASP
		M/s CROMPTON
33	<b>DG SET (ALTERNATOR-MV)</b>	M/s KIRLOSKAR
		M/s JYOTI
		M/s NGEF
		M/s STAMFORD
		M/s BHEL
		M/s KATO
		M/s ALSTOM
		M/S CROMPTON GREAVES LTD
		M/S CUMMINS GENERATOR TECHNOLOGIES I LTD
		M/S LEROY SOMARE & CONTROLS INDIA PVT LTD
34	<b>SYNCHRONOUS (FOREIGN)</b>	M/S ANSALDO ENERGIA SPA
		M/S ASEA BROWN BROVERY LTD
		M/S AVK DEUTSCHLAND GMBH & CO KG
		M/S FUJI ELECTRIC CO LTD
		M/S JEUMONT SA/ FRAMATONE ANP
		M/S MEIDENSHA CORP
		M/S SIEMENS AG
		M/S TOSHIBA CORPORATION
		M/S TOYO DENKI SEIZO K.K.
35	<b>FLAMEPROOF PUSH BUTTON STATION (DGMS approved with approval No. and certificate for specific model type).</b>	M/s FCGPOWER INDUSTRIES PVT LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s BALIGA LIGHTING EQUIPMENTS (P) LTD
		M/S FLEXPOR ELCTRICALS PVT LTD
		M/S FLAMEPROOF EQUIPMENTS PVT LTD
		M/S FCD FLAMPROOF CONTROL GEARS P. LTD
		M/S GOVAN INDUSTRIES (INDIA) P LTD
		M/S PROMPT ENGINEERING WORKS
		M/S SUDHIR SWITCHGEARS PVT LTD
36	<b>CAPACITOR BANK</b>	M/s ABB LTD
		M/s UNIVERSAL
		M/s KHATAU JUNKER
		M/s YESHA
		M/s ASIAN ELECTRONICS LTD.
		M/s SAHA SPRAGUE
		M/s LARSEN & TOUBRO LTD MEHER
		M/S BCH ELECRIC LTD





**BID PACKAGE**  
**"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"**



		M/S C & S ELECTRIC LTD
		M/S GE INDIA INDUSTRIAL PVT LTD
		M/S SIEMENS LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
37	APFC PANEL	M/s ABB LTD
		M/s ALSTOM
		M/s SIEMENS LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s SAHA SPRAGUE
		M/s LARSEN & TOUBRO LTD
38	HV SWITCH GEAR	M/s SIEMENS LTD
		M/s ABB LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s CROMPTON GREAVES
		M/s JYOTI
		M/s NGEF
		M/s ALSTOM
		M/s VOLTAS
		M/s DANKE
		M/s MEI
		M/s BHEL
		M/s DREISCHER PANICKER
		M/s KRUGGS
		M/s ALLIANCE
		M/s WESTING HOUSE , USA
		M/s FUJI , JAPAN
		M/s HITACHI, JAPAN
		M/s SACE, ITALY
		M/s SIEMENS , GERMANY / INDONESIA
		M/s AREVA T & D INDIA LIMITED , INDIA.
		M/s SCHNEIDER ELECTRIC INDUSTRIES, FRANCE
39	HT CAPACITOR BANK SYSTEM	M/s ABB LTD
		M/s BHEL
		M/s CROMPTON GREAVES
		M/s KAPSALES ELECTRICALS LTD
		M/s SHAKTI CAPACITORS LTD
		M/s SHREEM CAPACITORS LTD
		M/s UNIVERSAL CABLES LTD
		M/s SIEMENS LTD LTD
		M/s GE INDIA INDUSTRIAL PVT LTD
		M/s KHATAU CAPACITORS PVT LTD
40	GANG OPERATED	M/s KRUGGS



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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	<b>SWITCHES &amp; ISOLATORS</b>	M/s S&S POWER SWITCHGEAR LTD M/s ABB LTD M/s DANKE M/s DREISHCHER PANICKAR M/s HIVELUM INDUSTRIES M/S PANICKER SWITCHGEAR PVT LTD M/s SIEMENS LTD
41	<b>PIN INSULATOR, PORCELAIN BUSHES, DISC, POST INSULATORS</b>	M/s JAYA SHREE INSULATORS M/s MODERN INSULATORS M/s ALSTOM M/s SHESASAYEE INDUSTRIES
42	<b>SURGE SUPPRESSORS</b>	M/s ELPRO INTERNATIONAL M/s ALSTOM
43	<b>POWER &amp; DISTRIBUTION TRANSFORMERS</b>	M/s BHARAT BIJLEE LTD M/s CROMPTON GREAVES LTD M/s VOLTAMP TRANSFORMERS LTD M/s BHEL M/s KIRLOSKAR ELECTRIC CO LTD M/s VOLTAS M/s SCNEIDER ELECTRIC , FRANCE M/s GENRAL ELECTRIC, USA M/S AREVA T & D INDIA LTD (T & D GROUP) M/S EMCO LTD M/S KANOVAR ELECTRICALS LTD M/S TRANSFORMERS & ELECTRICAL KERALA LTD M/S VIJALI ELECTRICALS LTD M/S INDO TECH TRANSFORMERS LTD M/S RIMA TRANSFORMERS & CONDUCTORS PVT LTD M/S TRANSFORMERS & RECTIFIERS (I) LTD
44	<b>FIBRE GLASS CABLE TRAYS</b>	M/s SUPER REINFORCED PLASTICS ASSOCIATED ENGG. CORP, MUMBAI M/s GRIP INDIA, MUMBAI M/s SSB INDUSTRIES, BANGALORE M/s ERCON COMPOSITES, JODHPUR. M/s GENRAL COMPOSITES , MUMBAI M/s ENDURO, USA M/s INDIANA, MUMBAI
45	<b>SECURITY SEARCH LIGHT SYSTEM</b>	M/s SIGMA SEARCH LIGHT SYSTEM M/s SURAKSHA PRAKASH
46	<b>FLAMEPROOF LIGHTING &amp; DISTRIBUTION BOARD (DGMS approved with approval No. and certificate for specific</b>	M/S BALIGA LIGHTING EQUIPMENTS (P) LIMITED M/S FLEXPOR ELECTRICAL PVT LTD M/S FLAMEPROOF EQUIPMENTS PVT LTD M/S FCG POWER INDUSTRIES PVT LTD

**BID PACKAGE**

"Construction of Oil Collecting Station(OCS)  
at Barekuri/ Assam"



	model type)	M/S FCG FLAMPROOF CONTROL GEARS P LTD
		M/S SUDHIR SWITCHGEARS PVT LTD
47	<b>FLAMEPROOF JUNCTION BOX (DGMS approved with approval No. and certificate for specific model type)</b>	M/S BALIGA LIGHTING EQUIPMENTS (P) LIMITED
		M/S FLEXPOR ELECTRICAL PVT LTD
		M/S FLAMPROOF EQUIPMENTS PVT LTD
		M/S FCG POWER INDUSTRIES PVT LTD
		M/S FCG FLAMPROOF CONTROL GEARS P LTD
		M/S GOVAN INDUSTRIES (INDIA) P LTD (PLUGS & SOCKETS ONLY)
		M/S SUDHIR SWITCHGEARS PVT LTD
		M/S PROMPT ENGINEERING WORKS
48	<b>FLAME PROOF LIGHTING FIXTURES &amp; ACCESSORIES(DGMS approved with approval No. and certificate for specific model type)</b>	M/S BAJAJ ELECTRICAL LTD
		M/S BALIGA LIGHTING EQUIPMENTS (P) LIMITED
		M/S CROMPTION GREAVES LTD
		M/S FLEXPOR ELECTRICAL PVT LTD
		M/S FLAMPROOF EQUIPMENTS PVT LTD
		M/S FCG POWER INDUSTRIES PVT LTD
		M/S FCG FLAMPROOF CONTROL GEARS P LTD
		M/S GOVAN INDUSTRIES (INDIA) P LTD
		M/S PROMPT ENGINEERING WORKS
		M/S SUDHIR SWITCHGEARS PVT LTD
		M/S A.T.X SA
		M/S R STAHL SCHALTGERATE GMBH
		M/S VICTOR PRODUCTS PLC
49	<b>RELAY &amp; CONTROL PANEL</b>	M/S ABB LTD
		M/S AREVAT T & D INDIA LTD (T & D GROUP)
		M/S EASUN REYROLLE LTD
		M/S ENPRO INDUSTRIAL AUTOMATION PVT LTD
		M/S GE INDIA INDUSTRIAL PVT LTD
		M/S SIEMENS LIMITED
50	<b>SWITCH BOARD FIXED FOR PACKAGE EQUIPMENTS</b>	M/S ACCUSONIC CONTROLS PVT LTD
		M/S DHARIA SWITCHGEAR & CONTROL
		M/S ELECTRO ALLIED PRODUCTS
		M/S LARSEN & TOUBRO LTD
		M/S M K ENGINEERS & CONTROLS PVT LTD
		M/S MAKTEL SYSTEM
		M/S NITYA ELECTRO CONTROLS
		M/S POSITRONICS PVT LTD
		M/S POPULAR SWITCHGEARS PVT LTD
		M/S TRICOLITE ELECTRICAL INDUSTRIES PVT LTD
		M/S UNITED ELECTRIC CO (DELHI) PVT LTD
		M/S VIDHYUT CONTROL (INDIA) PVT LTD
		M/S ZENITH ENGINEERING CORP.



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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51	<b>SWITCH BOARD FIXED FOR PACKAGE EQUIPMENTS FLAME PROOF</b>	M/S BCH ELECTRIC LTD
		M/S BALIGA LIGHTING EQUIPMENTS (P) LTD
		M/S EX-PROTECTA
		M/S ELECTRICAL EQUIPMENT CORPORATION
		M/S FLEXPLO ELECTRICALS PVT LTD
		M/S FLAMEPROOF EQUIPMENTS PVT LTD
		M/S FCG POWER INDUSTRIES PVT LTD
		M/S FCD FLAMPROOF CONTROL GEARS P. LTD
		M/S GOVAN INDUSTRIES (INDIA) P LTD
		M/S PROMPT ENGINEERING WORKS
		M/S SUDHIR SWITCHGEARS PVT LTD
52	<b>HIGH MAST LIGHTING SYSTEM</b>	M/S BAJAJ ELECTRICAL LTD
		M/S CROMPTION GREAVES LTD
		M/S PHILIPS ELECTRONICS INDIA LIMITED
53	<b>ACTUATORS -MOV</b>	M/S AUMA INDIA PRIVATE LTD
		M/S LIMITORQUE INDIA LTD
		M/S MARSH ENGINEERS
		M/S ROTORK CONTORLS INDIA LTD
54	<b>AC VARIABLE SPEED DRIVE</b>	M/S ABB LTD
		M/S BHEL
		M/S DANFOSS INDUSTRIES PVT LTD
		M/S EUROTHERM DEL INDIA LTD
		M/S KIRLOSKAR ELECTRIC CO LTD
		M/S LARSEN & TOUBRO LTD
		M/S ROCKWELL AUTOMATION INDIA PVT LTD
		M/S SIEMENS LIMITED
55	<b>BIMETAL RELAYS</b>	M/S SCHNEIDER ELECTRIC INDIA PVT LTD
		M/S ABB LTD
		M/S BCH ELECTRIC LTD
		M/S C & S ELECTRIC LTD
		M/S GE INDIA INDUSTRIAL PVT LTD
		M/S LARSEN & TOUBRO LTD
		M/S SIEMENS LIMITED
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
56	<b>BUS DUCTS (M.V.)</b>	M/S AERO ENGINEERS
		M/S ALFA LEVAL INDIA LTD
		M/S ALSTOM PROJECTS INDIA LIMITED
		M/S ANUP ENGINEERING LIMITED
		M/S BENGAL TOOLS LIMITED
		M/S BHEL
57	<b>BUS DUCT (H.V.)</b>	M/S BHEL
		M/S C & S ELECTRIC LTD
		M/S ENPRO ENGINEERING



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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		M/S KGS ENGINEERING LTD.
		M/S NARMADA SWITCHGEAR PVT LTD
		M/S UNITED ELCTRIC CO (DELHI) PVT LTD
58	<b>BUCHHOLZ RELAY</b>	M/S ATVUS INDUSTRIES
		M/S A J SERVICES
59	<b>CIRCUIT BREAKER SF-6 OUTDOOR EHV</b>	M/S ABB LTD
		M/S AREVA T & D INDIA LTD (T & D GROUP)
		M/S BHEL
		M/S CROMPTON GREAVES LTD
		M/S SIEMENS LTD
60	<b>HEAVY DUTY SWITCHES</b>	M/S C & S ELECTRIC LTD
		M/S INDO ASIAN INDUSTRIAL PVT LTD
		M/S LARSEN & TOUBRO LTD
		M/S SIEMENS LTD
61	<b>HEAT TRANCERS</b>	M/S THERMON HEAT TRACERS PVT LTD
62	<b>LIGHTING &amp; POWER PANELS (SAFE AREA)</b>	M/S ABB LTD
		M/S C & S ELECTRIC LTD
		M/S HAVELLS INDIA LTD
		M/S INDO ASIAN FUSEGEAR LTD
63	<b>MCB</b>	M/S ABB LTD
		M/S DATAR SWITCHGEAR PVT LTD
		M/S HAVELLS INDIA LTD
		M/S INDO ASIAN FUSEGEAR LTD (RATING UPTO 63 AMP)
		M/S INDIAN CURRENT CONTROL LTD
		M/S LEGRAND (INDIA) PVT LTD
		M/S SIEMENS LTD (CURRENT RATING: UPTO 63 A)
		M/S STANDARD ELECTRICALS LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD (RATING : UPTO 63 AMP)
64	<b>MCCB</b>	M/S GE INDIA INDUSTRIAL PVT LTD
		M/S LARSEN & TOUBRO LTD
		M/S SIEMENS LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
65	<b>MAGNETIC OIL LEVEL GAUGE</b>	M/S INSTRUMENT & CONTROLS
		M/S SUKRUT UDYOG
66	<b>OIL TEMPERATURE INDICATOR</b>	M/S PRECIMEASURE CONTROLS PVT LTD
		M/S PERFECT CONTROLS
67	<b>VACUUM INTERRUPTER</b>	M/S AREVA T & D INDIA LTD (T & D GROUP)
		M/S ABB GLOBAL INDSUTRIES & SERVICES LTD
		M/S CROMPTON GREAVES LTD
68	<b>WINDING TEMPERATURE INDICATOR</b>	M/S PRECIMEASURE CONTROLS PVT LTD
		M/S PERFECT CONTROL
69	<b>CP SYSTEM</b>	M/S CORROSION TECHNOLOGY SERVICES INDIA (PVT) LTD



**BID PACKAGE**  
"Construction of Oil Collecting Station(OCS)  
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		M/SCONSTRUCTION GUILD
		M/S MOMENTUM ASSOCIATES
70	<b>CONTROL PANEL FLP</b>	M/S BALIGA LIGHTING EQUIPMENTS (P) LIMITED
		M/S FLEXPLO ELECTRICAL PVT LTD
		M/S FLAMPROOF EQUIPMENTS PVT LTD
		M/S FCG POWER INDUSTRIES PVT LTD
		M/S FCG FLAMPROOF CONTROL GEARS P LTD
		M/S SUDHIR SWITCHGEARS PVT LTD
71	<b>PUSH BUTTONS</b>	M/S BCH ELECTRIC LTD
		M/S C & S ELECTRIC LTD
		M/S ESSEN DEINK
		M/S HOTLINE SWITCHGEAR & CONTROLS
		M/S LARSEN & TOUBRO LTD -POWAI
		M/S SIEMENS LIMITED
		M/S SHRI TULSI SWITCHGEARS PVT LTD
		M/S SCHNEIDER ELECTRIC INDIA PVT LTD
		M/S TEKNIC CONTROLS

**CIVIL**

S. No	EQUIPMENT	VENDOR
1	Ceramic tiles for building flooring / skirting / dado	H&R JoHnsonLtd./ Somany/ Pilkington Ltd. / Kajaria / Bell Ceramic / SPARTEK
2	Ceramic / glazed tiles for toilet flooring / dado	H&R JoHnson Ltd./ Somany/ Pilkington Ltd. / Kajaria / Bell Ceramic / SPARTEK / NITCO / REGENCY
3	Antistatic PVC flooring / TILES	ROYAL /ARMSTRONG / KRISHNA / Wonder floor/ Poly floor
4	Kerbing / Pre-finished Cement Tiles	EUROCON / ULTRA
5	Distemper / ACRYLIC EMULSION Paint / Primer	ICI / BERGER/ NEROLAC/ JENSON & NIICHOLSAN/ British Paints / Asian Paints (Butterfly / Apcolite)/ SHALIMAR / NE PAINTUDYOG, NE Paint Udyog Ltd.
6	Waterproofing cement paint	Snowcem / Indocem / DURACEM/ SUPREME/ SURFACEM
7	CI Rain water / Soil pipes and CI accessories	NECO or ISI marked as approved by the Engineer-in-Charge
8	MS Pipe / G.I. Pipe	ZENITH/ TATA/ Jindal / GST
9	M.S. / G.I. Fittings	TATA / 'R' BRAND
10	Pre-laminated/Plain particle boards	Bhutan boards / Ecoboard / Novapen
11	Glazing/ Glass	INDO-ASAHI/ Hindustan Pilkington./ Triveni /Atul / Modi FLOAT / SAINT GOBAIN
12	BWP Ply / Plywood/ Common ply/ Flush door	NATIONAL / Corebet/ Green ply / Kit ply
13	Sanitary ware (Water closet/ wash basin/ urinal/ flushing Cistern/ WC cover etc.)	Hindustan / PARYWARE / NEYCER/ Cera
14	C.P. brass fittings	ARK-SOMA/ NOVA-SPECTRUM/ METRO-SUPER/ PARKO/ ESSCO
15	Flush Valve	ARK-SOMA/ NOVA-SPECTRUM/ METRO-SUPER/ PARKO/



**BID PACKAGE**  
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		ESSCO
16	Bib cock / Stop Cock	ARK-SOMA/ NOVA-SPECTRUM/ METRO-SUPER/ PARKO/ ESSCO
17	Wheel valve/ gate valve (brass)	ORIENT / leader
18	Brass float valve with Copper floats	ORIENT / leader
19	Floor Traps / Nahani Traps	I.S. APPROVED
20	Mirror	Modi / Atul
21	PVC Pipe	Supreme/ Finolex / PRINCE/ HYCOUNT
22	PVC Pipe Fittings	Supreme/ PRINCE/ STAR
23	A.C. Sheets	Everest/ Lotus/ Charminar
24	P.V.C. Tanks	Sintex/ Reno/ INFRA/ FUSSION/ UNIPLAS/ PATTON
25	Hydraulic Door closer	Prabhat / Hadwyn / Godrej
26	Aluminum section	INDAL/ Jindal
27	Locks	GODREJ / HARRISON
28	Anodized aluminium hardware fittings	SHALIMAR/GARNISH or ISI Marked.
29	Water proofing Compound	FOSROC/ ROFF/ SIKA MULTIPLAS/ Acco proof.
30	Floor Hardener	IRONITE/ HARDONITE/ FERROKE
31	P.V.C handrail	Fixopan/ Caliplast
32	Rigid PVC Conduit Medium Gauge wall thickness ISI & FIA approved & manufactured from virgin material. Precision/ AKG	Medium Gauge wall thickness ISI & FIA approved & manufactured from virgin material. Precision
33	Accessories for conduit	Same make as of pipe
34	Flexible Copper Wires	R.R. Kable/ Havells/ FINOLEX
35	Switches	LK ( Denish Range )/MDS / ANCHOR/ LEGRAND
36	Telephone wires/ CAT 6 wire	RR Kable/ Delton/ AT&T as per ITD SWS-113 B.
37	PVC tape	Steel grip/ Anchor
38	Switch Plate	Decolam Hylam sheet 3.0 mm thick. OR Sintex SMC sheets
39	Button holder/ Angle older/Ceiling rose	Anchor/ CPL
40	M.S. Conduit ISI	BEC/ Steel Craft/ AKG.(14GUAGE)
41	Ceiling Fans, Exhaust Fan	Crompton/ Orient/ Usha/ Bajaj/ Almonard/ Clipsal/ KHAITAN
42	Steel Doors & Windows	SEN HARVIC/ AGEW / SENTIANAL/ HOPES METAL/ MULTIWYN/ NCL SECCOLOR LTD.
43	Aluminum Doors, Windows & Wall spans	AJIT INDIA/ ALUMILITE/ INDAL/ JINDAL/ JUPITER WINDOWS
44	PA System/ Amplifier	Mega/ Shure/ Philips
45	Speaker / Mic	Mega/Shure/ Philips
46	EPABX/Telephone instrument	Seimens/ TATA/ ITI/ BPL / MATRIX/ BETEL
47	Air-conditioners	Samsung/ LG/ Carrier/ Voltas/ Electolux/ BLUE STAR/ GE/ NATIONAL/ HITACHI
48	Television	Sony/Samsung/ LG / PHILIPS/ VIDEOCON





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49	DVD Player	Sony/Samsung/ LG / PHILIPS/ VIDEOCON
50	Water Cooler	VOLTAS/ USHA/ CARRIER / BLUE STAR
51	R.O. Plant	EUREKA FORBES
52	Furniture (Modular)	GODREJ / FEATHERLIGHT
53	P.C.	IBM / HP/ HCL/ COMPAQ
54	Printer	HP/ SAMSUNG/ EPSON
55	TMT Bars	Steel Authority of India Limited (SAIL)/ Rashtriya Ispat Nigam Limited (RINL)/ Tata Iron & Steel Company (TISCO)/ Essar Steel (ESSAR)/ Jindal Steel & Power Limited (JINDAL)/ Shyam Steel Industries, Kolkata/ SRMB Udyog Limited, Kolkata/ Usha Martin, Ranchi/Jamshedpur/ Rathi Udyog Ltd, Ghaziabad
56	Structural Steel (Including plates)	Steel Authority of India Limited (SAIL)/ Rashtriya Ispat Nigam Limited (RINL)/ Tata Iron & Steel Company (TISCO)/ Essar Steel (ESSAR)/Jindal Steel & Power Limited (JINDAL)
57	Cement	Associated Cement Companies Limited (ACC Cement)/ Ultratech Cement Limited (L&T Cement / Aditya Birla Cement / Ultratech)/Gujarat Ambuja Cements Limited (Gujarat Ambuja Cement)/Shree Cement limited (Shree Ultra Cement / Bangur Cement)/Lafarge CementIndia Limited (Lafarge Cement)/Cement Corporation of India Limited (CCI Cement)/Jaypee Cement Limited (Jaypee Cement)/JK Lakshmi Cement Limited (JK Lakshmi Cement)/Madras Cement Limited (Ramco Cement)

**DESIGN & ENGINEERING AGENCIES**

Category :	Onshore Oil & Gas Field Surface Installations Projects GGS/ETP/GCP/WIP/CTF/PPP/OCS
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SN	Name of Agency
1	M/s Aegis Ltd
2	M/s IOT Design & Engineering Ltd.
3	M/s Mott MacDonald Consultants (India) Pvt Ltd
4	M/s L&T-Valdel Engineering Private Limited
5	M/s SNC-Lavalin Engineering India Pvt Ltd
6	M/s R P Engineers & Project Consultants Pvt Ltd.
7	M/s Saipem India Project Ltd
8	M/s Triune Energy Services Pvt Ltd
9	M/s KEAS Control System India Private Ltd., ( E & i)
10	M/s PL Engineering Ltd