#### **INDIA LIMITED**

( A Govt. of India Enterprise ) 4, India Exchange Place, Kolkata – 700 001.

E-mail: oilcalmn@oilindia.in INVITATION FOR BID NATIONAL COMPETITIVE BID

**OIL INDIA LIMITED** invites National Competitive Bid through its e-procurement portal – <a href="https://etender.srm.oilindia.in/irj/portal">https://etender.srm.oilindia.in/irj/portal</a> for the following items :-

E-Tender No.	Bid Closing	ITEM
	Date	
SKI9923P19/03	04.01.2019	Supply , installation & commissioning of Heat Exchanger

Period of sale of documents, Bid Closing / Opening date, the complete bid documents and details for purchasing bid documents, participation in e-tenders etc. are available on OIL's e-procurement portal <a href="https://etender.srm.oilindia.in/irj/portal">https://etender.srm.oilindia.in/irj/portal</a> as well as OIL's website <a href="https://www.oil-india.com/">https://www.oil-india.com/</a>.

No separate notification shall be issued in the press. Bidders should regularly visit above website and eportal to keep themselves updated.



# OIL INDIA LIMITED (A Government of India Enterprises)

4, India Exchange Place Kolkata -700001

> TELEPHONE NO. (033) 22301657 FAX NO: (033) 22302596

> > Email: kolpur2@oilindia.in

#### FORWARDING LETTER

Tender No & Date :SKI 9923 P19/03

Tender Fee : NIL (PLEASE REFER TO DOCUMENT-'SPECIAL NOTE')

Bid Security Amount :Rs. 80,400 /-

Bidding Type :Single Stage Two Bid

Bid Closing on : As mentioned in the e-portal Bid Opening on : As mentioned in the e-portal

Performance Guarantee : Applicable
Integrity Pact : Not Applicable
Delivery Required : At Duliajan, ASSAM

OIL invites Bids for **Supply**, **Installation & Commissioning of**Heat Exchanger through its EProcurement site under **SINGLE STAGE TWO BID SYSTEM**. The bidding documents and other terms and
conditions are available at Booklet No. MM/CALCUTTA/E-01/2016. The prescribed Bid Forms for
submission of bids are available in the Technical RFx -> External Area - > Tender Documents.

The general details of tender can be viewed by energing the RFx [ Tender] under RFx and Austiens. The

The general details of tender can be viewed by opening the RFx [ Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and details uploaded under Technical RFX.

#### The tender will be governed by:

- a) For technical support on various matters viz. Online registration of vendors, Resetting of Passwords, submission of online bids etc, vendors should contact OIL's ERP-MM Department at following: Tel. No.s = 0374-2807178, 0374-2807171, 0374-2807192. Email- id = erp mm@oilindia.in.
- b) "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).
- c) Technical specifications with Quantity and BEC/BRC and Price bid format as per **ANNEXURE AAA & II, ANNEXURE BBB and ANNEXURE CCC** respectively.
- d) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area > Tender Documents.
- e) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).

- f) Bidder are advised to fill up the <u>Undertaking of authenticity of information/documents submitted</u> (Annexure- K), Technical evaluation sheet (Annexure DDD & HHH), Technical bid check list (Annexure EEE), Response sheet (Annexure FFF) and Bank Details (Annexure GGG) given in this bidding document uploaded in Technical RFx -> External Area > Tender Documents. The above filled up documents to be uploaded in the Technical RFX Response.
- g) Amendments to the NIT after its issue will be published on OIL's website only. Revision, clarification, addendum, corrigendum, time extension etc. to the tender will be hosted on OIL website only. No separate notification shall be issued in the press. Prospective bidders are requested to visit website regularly to keep themselves updated.

#### **Special Note:**

- 1.0 Bidders to take special note of the following conditions:
- 1.1 <u>Against Tender Fee</u> Payment should be made only through online mode and no other instrument (Cash/DD/Cheques/Cashier Cheque, etc) will be acceptable.

Vendors who do not have OIL's User ID & password, may generate User ID & password online by the Vendor by using the link for supplier enlistment given in OIL's e tender portal and then pay Tender Fee on line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e portal). (PLEASE REFER DOCUMENT-' SPECIAL NOTE')

- 1.2 <u>Against Bid Security/EMD/Performance Bank Guarantee</u> Only payments through online mode or Submission of Bank Guarantee will be acceptable. No DD/Cheques/Cashier Cheque or any other mode will be acceptable.
- 1.3 A) Bidders submitting bank guarantee as **Bid Security** should note that the bank guarantee issued by the bank must be routed through SFMS platform as per following details:
  - (i) MT 760 / MT 760 COV for issuance of bank guarantee
  - (ii) MT 767 / MT 767 COV for amendment of bank guarantee

The above message / intimation shall be sent through SFMS by the BG issuing bank branch to Axis Bank, Corporate Banking Branch, IFSC Code - UTIB0001164. Branch Address - AXIS Bank Ltd, Corporate Banking Branch, 3<sup>rd</sup> Floor, AC Market, 1, Shakespeare Sarani, Kolkata 700071."

B) The Bidder shall submit to OIL the copy of SFMS message as sent by the issuing bank branch along with the original bank guarantee.

Note: In the event of an order, similar process will be required to be followed by the bidder in case of submission of Performance Security in the form of Bank guarantee.

- 2.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with Tender no. and Due date to **GM-Kolkata Office, Oil India Limited, 4, India Exchange Place, Kolkata 700 001** only on or before the Bid Closing Date and Time mentioned in the Tender.
  - a) Original Bid Security
  - b) Detailed Catalogue (if any)
  - c) Any other document required to be submitted in original as per tender requirement
  - All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate.
- **3.0** Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to

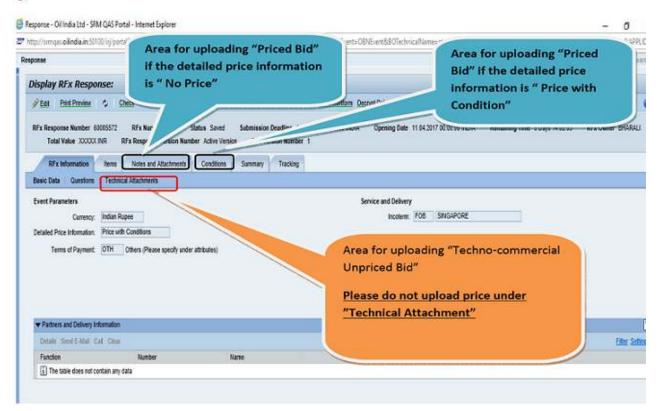
the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

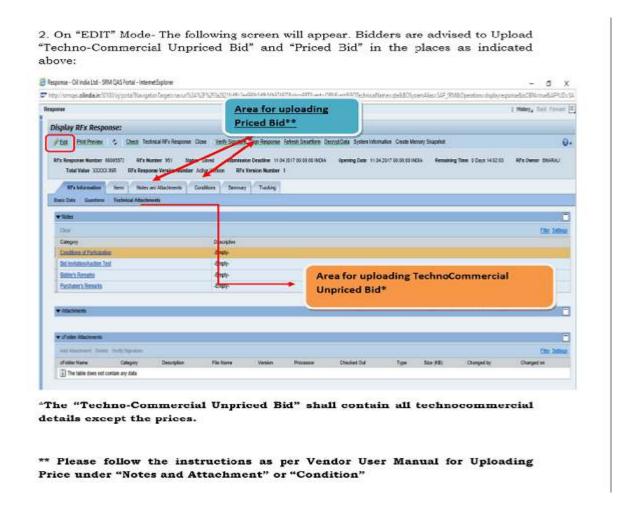
- 4.0 To participate in OIL's E-procurement tender, bidders should have a legally valid Digital Signature Certificate as per Indian IT Act from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India (http://www.cca.gov.in). The digital signature should be of Class 3 digital certificate alongwith encryption certificate for the designated individual with organization name. Please also refer "Guideline to Bidder for participating in OIL". All the Bids must be Digitally Signed.
- 5.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
- 6.0 The tender is invited under SINGLE STAGE-TWO BID SYSTEM. Bidders shall quote accordingly under Single Stage Two Bid System. The bidders are required to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic format in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.
- 6.1 Please ensure that Techno-commercial Bid / all technical related documents related to the tender are uploaded in the Technical Attachment as shown in the screen shot below. The "TECHNO-COMMERCIAL UNPRICED BID" shall contain all techno-commercial details except the prices. Please note that no price details should be uploaded in Technical Attachment.
- 6.2 The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Price Bid format/Priced bid can be uploaded as Attachment in the attachment option under "Notes & Attachments" tab as shown in the screen shot below.

A screen shot in this regard is shown below.

#### Upload Technical Bid / Price Bid.

1.



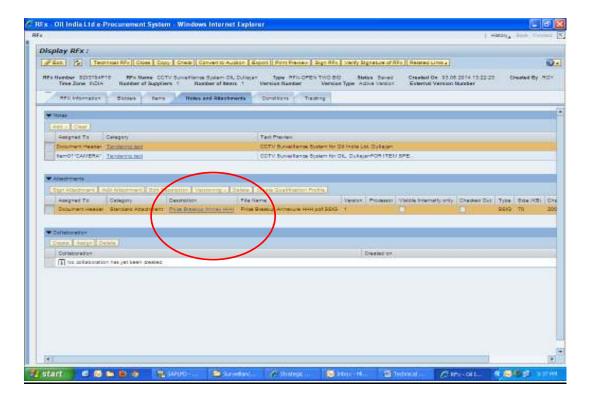


6.3 Any Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in the tender.

6.4 Only the price-bids of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

#### 6.5 Price Breakup/format:

Bidders should submit the price breakup/format of all the items as per "Annexure CCC" which has been uploaded under "Notes & Attachments" > "Attachments" as shown below. The price breakup/format "Annexure CCC" should be filled up, signed and uploaded under "Notes & Attachments" > "Attachments" only. The filled up price breakup/format of all the items should not be uploaded in Technical Attachment.



Please do refer "NEW INSTRUCTION TO BIDDER FOR SUBMISSION" for the above two points and also please refer "New Vendor Manual (effective 12.04.2017)" available in the login Page of the OIL's

E-tender



#### **NOTE:**

<u>Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.</u>

- 7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
- 8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed Annexure-BBB. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (as per Annexure-BBB) contradict the Clauses of the tender and / or "General Terms & Conditions" as per Booklet No. MM/CALCUTTA/E-01/2016 for E- Procurement of Indigenous Tenders elsewhere, those in the BEC / BRC shall prevail.
- 9. 0 Please do refer the User Manual provided on the portal on the procedure-How to create Response for submitting offer.

10.0 In order to bid for OIL e-tenders all the vendors are required to obtain a legally valid Digital Certificate Class III [Organization] along with encryption certificate as per Indian IT act from the licensed certifying authorities(CA) operating under the root certifying Authority of India (RCAI), controller of certifying authorities (CCA) of India. Digital Signature Certificate comes in a pair of Signing/Verification and Encryption /decryption certificate. Bidder should have both the Signing/Verification and Encryption /decryption certificate for signing and Encryption, decryption purpose respectively. The driver needs to be installed once, without which the DSC will not be recognized. While participating on e-Tendering the DSC token should be connected to your system.

Encryption certificate is mandatorily required for submission of bid. In case bidder created response with one certificate (using encryption key) and bidder change his Digital Signature Certificate then old certificate (used for encryption) is required in order to decrypt his encrypted response for getting the edit mode of the response. Once decryption is done, bidder may use new DSC certificate for uploading and submission of their offer. It is the sole responsibility of the bidder to keep their DSC certificate properly. In case of loss of the certificate, OIL INDIA LIMITED is not responsible.

- 11.0 For exemption for tender fee, please refer Clause No. 3.3 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders). (PLEASE REFER DOCUMENT-' SPECIAL NOTE')
- 12.0 Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

13.0 In addition to the existing clause of accepting Bid Security and Performance Security in the form of Bank Guarantee in Para No. 8.2 and 9.3 in the "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders) to include the below mention point as well:

"#Bank Guarantee issued by a Scheduled Bank in India at the request of some other Non -Scheduled Bank of India shall not be acceptable."

#### 14.0 CLAUSES RELATED TO GST

#### (A) Taxes:

- i. For the purposes of levy and imposition of GST, the expressions shall have the following meanings:
- (a) GST means any tax imposed on the supply of goods and/or services under GST Law.
- (b) Cess means any applicable cess, existing or future on the supply of Goods and Services as per Goods and Services Tax (Compensation to States) Act, 2017.
- (c) GST Law means IGST Act 2017, CGST Act 2017, UTGST Act, 2017and SGST Act, 2017and all related ancillary Rules and Notifications issued in this regard from time to time.

- ii. The rates quoted by the bidders shall be inclusive of all taxes, duties and levies. However, bidders are required to provide separately the rate and amount of all types of taxes, duties and levies. In case, the quoted information related to various taxes, duties and levies subsequently proves wrong, incorrect or misleading, OIL will have no liability to reimburse the difference in the duty/tax, if the finally assessed amount is on the higher side and OIL will have the right to recover the difference in case the rate of duty/ taxes finally assessed is on the lower side. Further, bidders have to clearly show the amount of GST separately in the Tax invoices. Further, it is the responsibility of the bidders to make all possible efforts to make their accounting / IT system GST complaint in order to ensure availability of Input Tax Credit (ITC) to Oil India Ltd.
- iii. Offers without giving any of the details of the taxes (including rates and amounts) as specified above will be considered as inclusive of all taxes including GST. When a bidder mentions taxes as extra without specifying the rates and amount, the offer will be loaded with maximum value towards taxes received against the tender for comparison purposes. If the bidder emerges as lowest bidder after such loading, in the event of order on that bidder, taxes mentioned by OIL on the Purchase Order/ contracts will be binding on the bidder.
- iv. Bidder is required to pass on the benefit arising out of introduction of GST, including seamless flow of Input Tax Credit, reduction in Tax Rate on inputs as well as final goods by way of reduction of price as contemplated in the provision relating to Anti-Profiteering Measure vide Section 171 of the CGST Act, 2017. Accordingly, for supplies made under GST, the bidder must confirm that benefit of lower costs has been passed on to OIL by way of lower prices/taxes and must also provide details of the same as applicable. OIL reserves the right to examine such details about costs of inputs/input services of the bidder to ensure that the intended benefits of GST have been passed on to OIL.
- v. Statutory variation (increase/decrease) of GST within the contractual delivery period will be to the account of OIL subject to documentary evidence. However, any increase in statutory levy after the expiry of the scheduled date of delivery shall be to the supplier's account.
- vi. Bidder agrees to do all things but not limited to providing GST compliant Tax Invoices or other documentation as per GST law relating to the supply of goods and/or services covered in the instant contract like raising of and /or acceptance or rejection of credit notes / debit notes as the case may be, payment of taxes, timely filing of valid statutory Returns for the tax period on the Goods and Service Tax Network (GSTN), submission of general information as and when called for by OIL in the customized format shared by OIL in order to enable OIL to update its database etc. that may be necessary to match the invoices on GSTN common portal and also for claiming input tax credit in relation to any GST payable under this Contract or in respect of any supply under this Contract.
- vii. In case Input Tax Credit of GST is denied to OIL or demand is recovered from OIL by the Central / State Authorities on account of any non-compliance by Bidder/Supplier, including non-payment of GST charged and recovered, the Bidder/Supplier shall indemnify OIL in respect of all such claims of tax, penalty and/or interest, loss, damages, costs, expenses and liability that may arise due to such non-compliance. OIL, at its discretion, may also withhold/recover such an amount demanded and recovered by the authorities/ state authorities from the pending payments of the Bidder/Supplier.
- viii. GST liability, if any on account of supply of free samples against any tender/purchase order (wherever applicable) shall be to bidder's/ supplier's account.

Yours Faithfully,

(Aparajita Gogoi ) Sr. Manager Materials (P) For GM-Kolkata Office

#### Annexure - AAA

### **TECHNICAL SPECIFICATIONS WITH QUANTITY**

SLNO & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUANT ITY	UO M
10  0C000259	Horizontal Shell and Tube Type Heat Exchanger  Detailed description are in <b>Annexure- II</b>	2	NO
20	INSTALLATION & COMMISSIONING	1	AU

#### **Special terms & conditions:**

- 1. Bidders are to submit their offer (Technical) by duly filling up the "Bidder's Offer" column of the attached Bidder's Response Sheet (annexure DDD & HHH). Additional sheets may be used as and where necessary and the same to clearly marked as: " Annexure No: \_\_\_\_\_\_, for Point No\_\_\_\_.
- 2. Offers submitted in other form than filling up of the "Bidder's Offer" column of the attached Bidder's Response Sheet shall not be accepted for evaluation.
- 3. All the Annexures / Attachments are to be suitably marked and a list of the same to be submitted alongwith the offer.
- 4.(a)Maximum allowable delivery period after receipt of PO for supply: 06 (six) months.
- (b) Maximum allowable delivery period after receipt of site clearance from OIL for the case of Installation/Commissioning: 01 (one) month

# **Annexure-II**

## **Detailed ITEM description**

<u>Detailed ITEM description</u>
A. BRIEF DESCRIPTION  Manufacture and Supply of Horizontal Shell and Tube Type Heat Exchanger  B. QUANTITY Two (02) Nos.
<ul> <li>C. NOTE TO BIDDERS</li> <li>1. Bidders are to submit their offer (Technical) by duly filling up the "Bidder's Offer" column of the attached Bidder's Response Sheet (annexure DDD &amp; HHH) Additional sheets may be used as and where necessary and the same to clearly marked as: "Annexure No:, for Point No</li> <li>2. Offers submitted in other form than filling up of the "Bidder's Offer" column of the attached Bidder's</li> </ul>
Response Sheet shall not be accepted for evaluation.
3. All the Annexures / Attachments are to be suitably marked and a list of the same to be submitted
alongwith the offer.
D. GENRAL DESCRIPTION
1. Type Horizontal Shell and Tube Type
2. Orientation Horizontal
3. Standards Should generally conform to ASME section VIII Div I and TEMA 'C' for
Mechanical Design
4. TEMA Type BET
5. Head & Tube Bundle Floating Head, Removable tube bundle
6. Make (To be specified by the bidder)
7. Model (To be specified by the bidder)
E. PROCESS DATA
1. Shell Side
a) Fluid Crude Oil
NB: The general Properties of Crude Oil are as detailed below:
API Gravity at 60 Deg F : 30
PH : 7.2
Salinity (ppm) : 4400
CO3 : NIL
HCO3 : 305
Pour Point ( Deg C ) : 27
Water Content (% v/v) : 21
Pumping Temp : 30 to 35 Deg C
Viscosity :13cp @ 26 Deg C, 17 cp @ 24 Deg C, 29 cp @
22 Deg C
Sp Gravity : 0.8574 @ 35 Deg C and 0.8718 @ 15 Deg C
/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
c) Inlet Pressure 4 - 5 kg/cm2
d) Temperature at Inlet (?C) 30?-35? C
e) Required Temperature at Outlet (?C) 40?-45? C
2 T 1 C'1
2. Tube Side
a) Fluid Dry Saturated Steam
b) Pressure at Inlet 5 - 6 kg/cm <sup>2</sup>
c) Temperature at Inlet (?C) 160 ? C - 162 ? C
F. CONSTRUCTIONAL DATA
1. Shell Sidea) Shell Outside Diameter (mm) 718
b) Shell Inside Diameter (mm) 695
c) Shell Length (excluding heads) (mm)3000
2. Tube Side a) Bundle Diameter (mm) 637 (Apporx.)
b) Total Number of tubes 474
c) Number of Tube Pass 06 (Six)
d) Type of Tube (bare / finned) Bare

- e) Construction of Tube All Tubes shall be seamless and cold drawn.
- f) Tube OD 19.05 MM (3/4")
- g) Tube Thickness (mm) 2.1
- h) Tube pitch (mm) 25.4 (1")
- i) Tube lay out angle (30? /45? /60? /90?) 60? (Triangular)
- j) Tube to Tube Sheet joint Tube to Tube Sheet joints should be expanded. All Tube Sheet holes and grooving in them should conform to TEMA and the following supplements. Grooves shall be squared, edged and concentric. When heat treatment of Tube Sheet is required, final Tube hole sizing shall be attained by reaming after heat treatment. After reaming operation, suitable precautions shall be taken to ensure that interior surfaces of the Tube holes are maintained free of rust, until Tubes are inserted.
  - 3. Baffles a) No of baffles 21
    - b) Baffle Type Single Segmental
    - c) Baffle-spacing (mm) 130
    - d) Baffle cut (%) 22
  - 4. Nozzle Data a) Shell Side Inlet (mm) 100
    - b) Shell Side Outlet (mm) 100
    - c) Tube Side Inlet (mm) 100
    - d) Tube Side Outlet (mm) 100

NB: All nozzle end connections are to be slip on welding forged steel flange (weld neck type), Class -150, as per ANSIB16.5. Flange holes are to be drilled as per table-E of BS-10. Materials as per ASTM-A-105 Forged Carbon Steel.

- 5. Vents Suitably designed vents should be incorporated and the design of the same to be furnished along with the offer.
- 6. Painting The shell, head and the external accessories are to be sand blasted and with painted with one coat of Grey primer.
- 7. Name Plate Stainless Steel Name Plate should be provided by the Supplier on each Heat Exchanger Shell, clearly indicating the following:
- i. Name of the Manufacturer
- ii. Year of Supply
- iii. OIL's Purchase Order No
- iv. Manufacturer's ID No
- G. DESIGN DATA 1. Design Code ASME section VIII div I and TEMA 'C' for Mechanical Design
  - 2. Design Pressure a) Shell side 7.5 kg/cm<sup>2</sup>
    - b) Tube Side 8.0 kg/cm<sup>2</sup>
  - 3. Design Temperature a) Shell side 80 ? C
    - b) Tube Side 200? C
  - 4. Design Temperature of Shell Fluid Outlet 40?-45? C
  - 5. Hydro pressure As per Code (To be specified by the bidder)
- H. MATERIALS OF CONSTRUCTION 1. Shell SA 516 GR.70 or equivalent
  - 2. Baffles SA 516 GR.70 or equivalent
  - 3. Tubes SA 179 (19.05 mm OD x 2.108 mm thick, seamless and cold drawn ) or equivalent
  - 4. Gaskets NAB/ IJA/SS Spiral Wound.

NB: The bidder shall have to furnish undertaking in writing along with the offer, that the offered Materials of Construction shall be suitable for the Operation of the Heat Exchanger(s) under conditions as mentioned in the NIT.

#### I. CERTIFICATES AND DOCUMENTS TO BE FORWARDED

- 1. Documents should be forwarded along with the quotations:
- a) Mechanical and thermal design calculations and fabrication drawings
- b) Undertaking in writing, that the offered Materials of Construction shall be suitable for the Operation of the Heat Exchanger(s) under conditions as mentioned in the NIT.

- c) Undertaking in writing, that the design of the offered heat exchanger(s) shall be suitable for the Operation of the Heat Exchanger(s) under conditions as mentioned in the NIT.
- d) The bidder shall have to provide undertaking that in case the order is placed on the bidder, the Heat Exchanger(s) to be supplied (including major component and all it's accessories), will be manufactured after the bid closing date of this tender.
- 2. The following documents shall have to be forwarded within a month of placement of firm order
- a) Fabrication drawings made to scale and showing the followings (for reference only):
  - i. Overall size of the Equipment and assembly
  - ii. Sketch showing Tube layout, indicating pass positions, cross Baffle cut, orientation etc.
  - iii. Bundle layout, giving location of first and last Baffles and the Baffle spacing
- b) Testing plan, indicating the tests to be conducted on welds/materials and assemblies such as NDT tests/Hydrotest/Pneumatic test and Destructive tests, etc.
- c) A Civil foundation diagram for the complete Heat Exchanger Package(s) indicating the static and dynamic loads of the package.
- 3. Material test (MOC) certificates of the components must be forwarded along with the pre-despatch inspection notice from supplier.
- 4. The following documents must be forwarded along with the supply of equipment a) Certified test results
  - b) Certificate of hydrostatic testing
  - c) Manufacturers certificate of authenticity

NOTE: All the above mentioned document Under Clause I.4 shall have to be packed separately with a packing list and prominently labeled with OIL's Purchase order No:\_\_\_\_\_\_ and to be dispatched to:

To, Head- Field Engineering OIL INDIA LIMITED DULIAJAN- 786602 ASSAM, INDIA

- J. PRE DESPATCH INSPECTION AND TESTING (a)The heat exchanger(s) shall be inspected by OIL's deputed engineer at manufacturers / works / factory prior to dispatch. However, such inspection will not relieve the supplier of his responsibility to ensure that the equipment supplied conforms to the correct specifications and is free from manufacturing and all other defects.
- (b) OIL's representative shall witness hydrostatic tests. When hydrostatic tests are performed, the indicating Gauge shall be connected to the uppermost part of the Equipment. Testing water shall be Salt free. Final hydrostatic tests shall be carried out using service Gaskets and the Equipment shall be dispatched in as tested condition. Minimum metal temperature during hydrostatic tests shall be 20oC. Test pressures shall be maintained for at least one hour. Shell and Tube sides shall be tested separately.
  - (c) N.B.:
- (i) Material test (MOC) certificates of the components must be furnished at the time of Pre- Despatch Inspection for review.
- (ii) Charges for carrying out the above tests at the manufacturer's facility should be included in the purview of the offer. However, cost of travelling, boarding, lodging of OIL's engineers will be to OIL's account.
- K. PACKING & TRASPORTATION Packing shall be sufficiently robust to withstand handling during shipment and up country journey. The package should be suitably packed to withstand ingress of water. All items shall have their respective identification letters or numbers painted on them and they shall be suitably packed to provide ease of handling and storage and maximum protection during transport and storage period. Crates and boxes shall have a list of items contained therein secured to the exterior by piece of an enveloping piece tin sheet nailed to the wood. A duplicate list shall also be included inside, with the contents, sling points shall be clearly indicated on the crates.

NB: Any Item found defective/ damaged during transit shall have to be replaced / rectified by the supplier at no additional cost.

- L. INSTALLATION & COMMISSIONING a) The Heat Exchangers are to be supplied in assembled condition, so that, after construction of recommended foundation and completion of necessary grouting, the Heat Exchangers can be put to use by simply connecting the Inlet Outlet pipings. Necessary Civil work and laying of Inlet Outlet pipings shall be done by OIL.
- b) Installation and Commissioning of the Heat Exchangers shall be carried out by the bidder in the presence of OIL representatives at its fields at Duliajan, Assam (India). Service of qualified and competent personnel from equipment manufacturer is essential during commissioning.
- c) Commissioning charges should be quoted separately which shall be considered for evaluation of the offers. These charges should included amongst others to and fro fares, boarding/lodging and other expenses of the commissioning engineers during their stay at Duliajan, Assam (India). Bidders should also confirm about installation/commissioning in the Technical Bid.
- d) The Heat Exchangers shall be treated as commissioned only after successful completion of a trial run for a minimum period of 72 hrs and on satisfactory performance shall be subsequently handed over to OIL.
- M. WARRANTY The warranty period for the Heat Exchangers and all ancillary equipment shall be a minimum of 18 months from the date of dispatch / shipment or 12 months from the date of commissioning whichever is earlier.

#### N. CHECK LIST TECHNICAL CHECK LIST FOR HEAT EXCHANGERS (Please tick YES or NO)

- 1. Whether the bidder has submitted their offer(Technical) by duly filling up the "Bidder's Offer" column of the attached Bidder's Response Sheet. YES / NO
- 2. Whether quoted as OEM of Heat Exchangers and whether documentary evidences submitted ? YES / NO
- 3. Whether quoted as authorised dealer of Heat Exchangers and whether documentary evidences submitted? YES / NO
- 4. Whether the offered Heat Exchangers design conforms to ASME section VIII div I and TEMA 'C' for Mechanical Design specifications? YES / NO
- 5. Whether the designed Temperature of Shell Fluid Outlet of the Heat Exchangers is 40?-45? C? YES / NO
  - 6. Whether separately highlighted any deviation from the technical specifications? YES / NO
- 7. Whether the Pre-despatch inspection of the Heat Exchangers shall include Hydro Test of Shell and Tube Separately? YES / NO
- 8. Whether the Commissioning charges should are quoted separately which shall be considered for evaluation of the offer(s)? YES / NO
- 9. Whether the bidder has submitted the undertaking that the offered Materials of Construction shall be suitable for the Operation of the Heat Exchanger(s) under conditions as mentioned in the NIT? YES / NO
- 10. Whether the bidder has submitted the undertaking that the design of the offered heat exchanger(s) shall be suitable for the Operation of the Heat Exchanger(s) under conditions as mentioned in the NIT? YES / NO
- 11. Whether the bidder has submitted the undertaking that in case the order is placed on the bidder, the Heat Exchanger(s) to be supplied (including major component and all it's accessories), will be manufactured after the bid closing date of this tender? YES / NO

# Annexure-BBB BID REJECTION & BID EVALUATION CRITERIA

The bid must conform to the specifications and terms and conditions given in the enquiry. Bid will be rejected in case the items offered do not conform to all the required technical parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected.

#### I. A. BID REJECTION CRITERIA (TECHNICAL)

- 1.0 The bidder should be an OEM of Heat Exchangers or authorized dealer of OEM of Heat Exchangers. Valid documentary evidence in this regard must be furnished along with the offer by the bidder.
- 2.0 The Bidder should have the experience of successfully executing at least 01(one) similar order of total value Rs. 20,08,270.00 (Rupees Twenty Lakhs Eight Thousand Two Hundred Seventy) only in the last 05 (Five) years preceding the bid closing date (technical) of the tender in PSUs, State/ Central Govt. Undertakings, Public Limited Companies.

The bidder shall submit documentary evidence in support of his previous supply experience as follows:

- i) Copy (ies) of Purchase Order(s) clearly mentioning the Gross value of the order, AND
- ii) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s).
- Completion report / performance certificate from the clients,
- Consignment note.
- Delivery challan / invoice etc.
- Any other documentary evidence that can substantiate the successful execution of each of the Purchase Orders(s) cited above.

#### Note:

i. Similar order means: Orders for Manufacture and Supply of Shell and Tube Type Heat Exchangers.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

#### B) BID REJECTION CRITERIA (FINANCIAL):

- 1.0 Annual Financial Turnover of the bidder during any of preceding three financial / accounting years from the original bid closing date should be at least Rs. 20,08,270/-
- **1.1Net worth** of bidder must be positive for preceding financial/ accounting year.
- 2.0Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying that 'the balance sheet/Financial Statements for the financial year....... (as the case may be) has actually not been audited so far'.

**Note:** (a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-

i) A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE-B.

OR

- ii) Audited Balance Sheet along with Profit & Loss account."
- b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

#### C) BID REJECTION CRITERIA (COMMERCIAL):

Commercial Bid Rejection Criteria will be as per "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 with following Special Bid Rejection Criteria.

1.0 Bids are invited under **Single Stage Two Bid** System. Bidders shall quote accordingly under Single Stage Two Bid System. **Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid.** The "Unpriced Bid" shall contain all techno-commercial details except the prices, which shall be kept blank. The "Price Bid" must contain the price schedule and the bidder's commercial terms and conditions. Bidder not complying with above submission procedure will be rejected. Technical RFx Response folder is meant for Technical bid only. Therefore, No price should be given in Technical RFx Response folder, otherwise the offer will be rejected.

The bidder has to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" bid through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

- 1.1 In Technical Bid opening, only Technical Rfx will be opened. Therefore, the bidder should ensure that "TECHNO-COMMERCIAL UNPRICED BID should contain details as mentioned in the technical specifications as well as BEC/BRC, techno-commercial details including quantity offered except prices which shall be kept blank and upload the same in the Technical RFx Response-> User > Technical Bid. No price should be given in above Technical Rfx otherwise the offer will be rejected. Please go through the help document in details before uploading the document and ensure uploading of technical bid in the Technical RFx Response-> User > Technical Bid only. The "PRICE BID" must contain the price schedule and the bidder's commercial terms and conditions. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment under the attachment option under "Notes & Attachments". Priced bids of only those bidders will be opened whose offers are found to be techno-commercially acceptable.
- **2.0 Bid security of** Rs. 80,400/- shall be furnished as a part of the TECHNICAL BID (refer Clause No. 8.0 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders)). The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to

CGM-KOLKATA OFFICE, OIL INDIA LIMITED, 4 INDIA EXCHANGE PLACE, ICC BUILDING, 4<sup>TH</sup> FLOOR, KOLKATA – 700001, INDIA on or before the Bid Closing Date and Time mentioned in the Tender.

# Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.

A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

- 2.1 For exemption for submission of Bid Security, please refer Clause No. 8.16 (Section A) of "General Terms & Conditions" for e-Procurement as per Booklet No. MM/CALCUTTA/E-01/2016 for E-procurement (LCB Tenders).
- 2.2 The Bank Guarantee towards Bid Security shall be valid upto 02.08.2019. (i.e. 90 days from the Bid Validity)
- **3.0** Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. Validity of the performance security shall be valid for 90 days beyond contract period/duration and applicable warranty/guarantee/defect liability period (if any). Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.
- **4.0** The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.
- 5.0 Validity of the bid shall be minimum 120 days from the Bid Closing Date. Bids with lesser validity will be rejected.
- **6.0** Bids containing incorrect statement will be rejected.
- **7.0** No offers should be sent by Telex, Cable, E-mail or Fax. Such offers will not be accepted.
- **8.0** All the Bids must be Digitally Signed using "Class 3" digital certificate (e-commerce application) with Bidder's organization name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3" digital certificate with Bidder's organization name, will be rejected.
- 9.0 The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.
- 10.0 Bidders are required to submit the summary of the prices in their Commercial (Priced) bids as per bid format (Summary), given in **Annexure CCC** below:

#### PRICE SCHEDULE

Tender No.:

HSN Code  Basic material Value (Unit Rate)  Quantity  A. Total Basic Material Value (Unit rate x Quantity)  Produce deposition sharpes if any			
Quantity  A. Total Basic Material Value (Unit rate x Quantity)			
A. Total Basic Material Value (Unit rate x Quantity)			
<b>V</b> 77			
<b>V</b> 77			
D. Dro dogratal Ingression sharpes if one			
B. Pre-despatch Inspection charges, if any			
C. Packing and forwarding charges, if any			
D. Total Ex-works value (A+B+C)	Total Ex-works value ( A+B+C)		
GST on (D)			
Compensatory Cess, if any			
Total FOR Despatching Station Value ( D+E+F)			
Freight Charges upto destination			
I. GST on freight charges			
Insurance charges inclusive of GST			
Installation & Commissioning Charges, if any			
GST on I & C charges			
M Total FOR Destination Value In Rupees			
(G+H+I+J+K+L)			

Gross weight of the total consignment
Gross volume of the total consignment
Name of Despatching Station
Delivery Period
Validity
Payment terms
Name of original manufacturer
Other terms if any

Name of Bidder

Full Name: Address: Date:

#### Note:

- 1. Bidders must quote Freight Charges upto destination specified in tender. In case bidder fails to quote inland freight charges, highest freight quoted by the other bidder (considering pro-rata distance) against this tender or OIL's estimated freight, whichever is higher, shall be loaded to their offer for comparison purpose.
- 2. Inspection Charges (Ref. B) and I&C Charges (Ref K & L) are to be quoted wherever specifically asked for in the tender.
- 3. Other clauses on Goods & Service Tax shall be applicable as incorporated elsewhere in this tender.

#### II) BID EVALUATION CRITERIA

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

- 1.0 The evaluation of bids will be done as per the Price Schedule (SUMMARY) detailed vide Para 10.0 of Bid Rejection Criteria (commercial) .
- 2.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amounts in words shall prevail and will be adopted for evaluation.
- 3.0 To ascertain the inter-se-ranking, the comparison of the responsive bids will be done on FOR Destination basis, subject to corrections / adjustments given herein.
- 4.0 In case any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) mentioned here contradict the Clauses in the General Terms & Conditions of the Tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.

# COMMERCIAL CHECKLIST (To be filled up and submitted along with the bid)

Tender no.	
Bidder's name	

		COMPLIANCE BY BIDDER		
SL. NO.	BEC / TENDER REQUIREMENTS	Indicate 'Confirmed'/' Not Confirmed' /Not applicable	Indicate Corresponding page ref. of unpriced bid or Comments	
1	Confirm that validity has been offered as per NIT.(120 days from BC date)			
2	Confirm that Bid Security / Earnest Money has been submitted as per NIT (Wherever Applicable)?			
2.1	Confirm that original bid bond guarantee has been submitted in format MENTIONED IN NIT.			
3	Confirm that you shall submit Performance security as per NIT (in the event of placement of order) (Wherever Applicable)?			
4	Confirm that duly signed Integrity Pact has been submitted as per NIT?			
5	Confirm that you have submitted documentary evidence as per BRC Technical			
6.1	Confirm that you have submitted proof of annual turnover and net worth certified by a chartered accountant as per NIT requirement (with membership number and Firm registration number).			
6.2	Confirm that you have submitted affidavit/undertaking (wherever applicable) as mentioned in bid rejection criteria (financial) in Annexure -BBB			
7	Confirm that the offers and all attached documents are digitally signed using Class 3# digital certificate (e-commerce application) in Organization Name issued by an acceptable Certifying Authority (CA) as per Indian IT. Act 2000.NIT.			
8	Confirm that you have not taken any exception/deviations to the NIT.			
9.	Confirm that the product offered strictly conform to the technical specifications.			
10	Confirm that the prices offered are firm. (Conditional offer shall be liable for rejection.)			
11.	Confirm that you have submitted undertaking of authenticity of information/documents as per annexure-			

NOTE: Please fill up the greyed cells only.

**Bidders Response Sheet- Annexure FFF** 

	The sponse sheet American	
	Tender No.	
	Bidders Name	
SI	Description	Remarks
1	Place of Despatch	
2	Whether Freight charges have been included in your quoted	
3	Whether Transit Insurance charges have been included in vour	
4	Make of quoted Product	
5	Offered Validity of Bid as per NIT	
6	Bid Security Submitted (if applicable)	
6	Details of Bid Security Submitted to OIL (if applicable)	
	a) Bid Security Amount (In Rs):	
	b) Bid Security Valid upto:	
7	Whether you shall submit Performance Security in the event of	
	placement of order on you	
8	Integrity Pact Submitted	
9	Delivery Period in weeks from placement of order	
10	Complied to Payment terms of NIT (if applicable) otherwise to	
	Standard	
11	If bidder is MSE whether you have quoted your own product	
12	If bidder is Small scale unit . whether you are owned by SC/ST	
13	If Bid security submitted as Bank Guarantee, Name and Full	
	Address of Issuing	
	Bank including Telephone, Fax Nos and Email id of branch	
	manager	
14	Confirm that the Bid Security submitted (In case of Bank	
	Guarantee) is in toto as per format provided in the bidding	
	i duarantee, is in toto as per format provided in the bidding	
15	Bid Security if Not submitted, reasons thereof	
	,	
1		

NOTE: Please fill up the greyed cells only.

# (TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETER HEAD) (ALL FIELDS ARE MANDATORY)

Tender No.	•
Name of Beneficiary	:M/s
Vendor Code	
Address	:
Phone No. (Land Line)	:
Mobile No.	:
E-mail address	:
Bank Account No. (Minimum	1
Eleven Digit No.)	:
Bank Name	:
Branch	:
Complete Address of your	
Bank	
IFSC Code of your Bank	
a) RTGS	:
b) NEFT	:
PAN	
VAT Registration No.	
CST Registration No.	
Service Tax Registration No.	:
<b>Provident Fund Registration</b>	:

I/We confirm and agree that all payments due to me/us from Oil India Limited can be remitted to our above mentioned account directly and we shall not hold Oil India Limited responsible if the amount due from Oil India Limited is remitted to wrong account due to incorrect details furnished by us.

Office Seal Counter Signed by Banker: Signature of Vendor Seal of Bank:

Enclosure: Self attested photocopies of the following documents-

- 1) PAN Card
- 2) VAT Registration Certificate
- 3) Service Tax Registration
- 4) CST Registration
- 5) Provident Registration Certificate
- 6) Cancelled cheque of the bank account mentioned above (in original).
- 7) Bank Statement not older than 15 days on the date of submission.

## **Annexure-K**

Date \_\_\_\_\_

# Format of undertaking by Bidders towards submission of authentic information/documents (To be typed on the letter head of the bidder)

Ref: Your tender No	_ Dated
To, The General Manager-Kolkata ( Oil India Limited Kolkata	Office
Sir,	
•	tion against your above-referred tender, we hereby undertake that no ents have been submitted by us.
We take full responsibility for t bid.	the submission of authentic information/documents against the above cited
information/documents submi	any stage of the tender/contract agreement, in case any of the tted by us are found to be false/forged/fraudulent, OIL has right to reject forfeiture of our EMD and/or PBG and/or cancel the award of contract al action on us, as deemed fit.
Yours faithfully, For (type name of the firm here	<u>=</u> )
Signature of Authorised Signato	ory
Name :	
Designation :	
Phone No.	
Place :	
Date :	
(Affix Seal of the Organization h	nere, if applicable)

Ref. No\_\_\_\_\_

## **ANNEXURE-B**

### **CERTIFICATE OF ANNUAL TURNOVER & NET WORTH**

TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR LETTER HEAD

<u>TO</u>	WHOME IT MAY CONCER	<u>N</u>			
This is to certify that the following financial positions extracted from the audited financial statements of <b>M/s</b> (Name of the Bidder)for the last three (3) completed accounting years upto(as the case may be) are correct.					
YEAR	TURN OVER	NET WORTH			
12/11	In INR (Rs)	In INR (Rs)			
Place:					
Date:					
Seal:					
Membership No					
•					
Registration Code:					
Signature:					

	BIDDER'S RESPONSE SHEET AGAINST TENDER NO. SKI 9923P19/03						
Description OIL's Spe		OIL's Sp	pecification	Bidder's Offer			
A.	BRIEF	Manufacture and Supply of Horizontal Shell a					
	DESCRIPTION						
	QUANTITY	Two (02) Nos.					
C.	NOTE TO	•	, , ,	he attached Bidder's Response Sheet. Additional sheets			
	BIDDERS	·	ne same to clearly marked as: " Annexure No:				
			up of the "Bidder's Offer" column of the attach	ed Bidder's Response Sheet shall not be accepted for			
		evaluation.					
			suitably marked and a list of the same to be submi	tted alongwith the offer.			
D.	GENRAL	1. Type	Horizontal Shell and Tube Type				
	DESCRIPTION	2. Orientation	Horizontal				
		3. Standards	Should generally conform to ASME section VIII				
			Div I and TEMA 'C' for Mechanical Design				
		4. TEMA Type	BET				
		5. Head & Tube Bundle	Floating Head , Removable tube bundle				
		6. Make (To be specified by the bidder)					
		7. Model (To be specified by the bidder)					
Ε.	PROCESS	1. Shell Side a) Fluid	Crude Oil				
	DATA		NB: The general Properties of Crude				
			Oil are as detailed below:  API Gravity at 60 Deg F : 30				
			API Gravity at 60 Deg F : 30 PH : 7.2				
			Salinity ( ppm ) : 4400				
			CO3 : NIL				
			HCO3 : 305				
			Pour Point ( Deg C ) : 27				
			Water Content (% v / v) : 21				
			Pumping Temp : 30 to 35				
			Deg C				
			Viscosity :13cp @ 26				
			Deg C, 17 cp @ 24				
			Deg C, 29 cp @ 22 Deg C				

			Sp Gravity : 0.8574 @ 35	
			Deg C and 0.8718 @ 15 Deg C	
		h) Flam Bata		
		b) Flow Rate	90 – 120 KLPH (approx.)	
		c) Inlet Pressure	4 – 5 kg/cm <sup>2</sup>	
		d) Temperature at Inlet (°C)	30°-35° C	
		e) Required Temperature at Outlet (°C)	40°-45° C	
	2. Tube Side	a) Fluid	Dry Saturated Steam	
		b) Pressure at Inlet	5 – 6 kg/cm <sup>2</sup>	
		c) Temperature at Inlet (°C)	160 ° C - 162 ° C	
F. CONSTRUCTI	1. Shell Side	a) Shell Outside Diameter (mm)	718	
ONAL DATA		b) Shell Inside Diameter (mm)	695	
		c) Shell Length (excluding heads)	3000	
		(mm)		
	2. Tube Side	a) Bundle Diameter (mm)	637 (Apporx.)	
		b) Total Number of tubes	474	
		c) Number of Tube Pass	06 (Six)	
		d) Type of Tube (bare / finned)	Bare	
		e) Construction of Tube	All Tubes shall be seamless and cold	
			drawn.	
		f) Tube OD	19.05 MM (3/4")	
		g) Tube Thickness (mm)	2.1	
		h) Tube pitch (mm)	25.4 (1")	
		i) Tube lay out angle (30° /45° /60° /90°)	60° (Triangular)	
		j) Tube to Tube Sheet joint	Tube to Tube Sheet joints should be	
			expanded. All Tube Sheet holes and	
			grooving in them should conform to	
			TEMA and the following supplements.	
			Grooves shall be squared, edged and	
			concentric. When heat treatment of	
			Tube Sheet is required, final Tube hole	

			_	e attained by reaming	
				eatment. After reaming	
				itable precautions shall	
				ensure that interior	
				the Tube holes are	
				ree of rust, until Tubes	
			are inserted.		
	3. Baffles	a) No of baffles	21		
		b) Baffle Type	Single Segme	ntal	
		c) Baffle-spacing (mm)	130		
		d) Baffle cut (%)	22		
	4. Nozzle	a) Shell Side Inlet (mm)	100		
	Data	b) Shell Side Outlet (mm)	100		
		c) Tube Side Inlet (mm)	100		
		d) Tube Side Outlet (mm)	100		
		NB: All nozzle end connections are	to be slip on w	elding forged steel flange	
		(weld neck type), Class -150, as p	per ANSIB16.5.	Flange holes are to be	
		drilled as per table-E of BS-10. Mate	erials as per AS	ΓM-A-105 Forged Carbon	
	Steel.				
	5. Vents	Suitably designed vents should be in	ncorporated an	d the design of the same	
		to be furnished along with the offer	•.		
	6. Painting	The shell, head and the external acc		be sand blasted and with	
		painted with one coat of Grey prime			
	7. Name Plate	Stainless Steel Name Plate should be	•	ne Supplier on each Heat	
		Exchanger Shell, clearly indicating the following:			
		i. Name of the Manufacturer			
		ii. Year of Supply			
		iii. OIL's Purchase Order No			
		iv. Manufacturer's ID No			
G. DESIGN DATA	1. Design Code	ASME section VI Design	III div I and T	EMA 'C' for Mechanical	
	2. Design Press		7.5	kg/ cm <sup>2</sup>	
		b) Tube Side		) kg/ cm <sup>2</sup>	
				<u> </u>	

	3. Design Temperature	a) Shell side	80 ° C	
		b) Tube Side	200 ° C	
4. Design Temperature of Shell		40°-45° C		
	Fluid Outlet			
	5. Hydro pressure	As per Code (To be specified	by the bidder)	
H. MATERIALS	1. Shell	SA 516 GR.70 or equivalent		
OF	2. Baffles	SA 516 GR.70 or equivalent SA 179 (19.05 mm OD x 2.108 mm thick, seamless and		
CONSTRUCTI	3. Tubes			
ON		cold drawn ) or equivalent		
	4. Gaskets	NAB/ IJA/SS Spiral Wound.		
	NB: The bidder shall have to furn	•		
	offered Materials of Construction		ne Operation of the Heat	
	Exchanger(s) under conditions as r			
I. CERTIFICATE		a) Mechanical and therm	al design calculations and	
S AND	forwarded along with the	fabrication drawings		
DOCUMENTS	quotations:		that the offered Materials of	
TO BE		Construction shall be suitable for the Operation of		
FORWARDED		•	der conditions as mentioned	
		in the NIT.		
			hat the design of the offered	
		9	be suitable for the Operation	
		mentioned in the NIT.	er(s) under conditions as	
		d) The bidder shall have to	provide undertaking that in	
		case the order is place	d on the bidder, the Heat	
		Exchanger(s) to be	supplied (including major	
		component and all	it's accessories), will be	
		manufactured after the	e bid closing date of this	
		tender.		
	2. The following documents		ade to scale and showing the	
	shall have to be forwarded	followings (for reference	**	
	within a month of placement		uipment and assembly	
	of firm order	ii. Sketch showing Tu	be layout, indicating pass	

			positions, cross Baffle cut, orientation etc.	
			iii. Bundle layout, giving location of first and last	
			Baffles and the Baffle spacing	
			b) Testing plan, indicating the tests to be conducted on	
			welds/materials and assemblies such as NDT	
			tests/Hydrotest/Pneumatic test and Destructive	
			tests, etc.	
			c) A Civil foundation diagram for the complete Heat	
			Exchanger Package(s) indicating the static and	
			dynamic loads of the package.	
		3. Material test (MOC) certificate	es of the components must be forwarded along with the	
		pre-despatch inspection notice	from supplier.	
		4. The following documents	a) Certified test results	
		must be forwarded along	b) Certificate of hydrostatic testing	
		with the supply of equipment	c) Manufacturers certificate of authenticity	
		NOTE: All the above mentioned doo	cument Under Clause I.4 shall have to be packed separately v	vith a packing list and prominently labeled with
		OIL's Purchase order No:	and to be dispatched to:	
		To,		
		Head- Field Engineering		
		OIL INDIA LIMITED		
		DULIAJAN- 786602		
		ASSAM, INDIA		
J.	PRE	(a)The heat exchanger(s) shall be	inspected by OIL's deputed engineer at manufacturers /	
	DESPATCH	works / factory prior to dispatch. H	lowever, such inspection will not relieve the supplier of his	
	INSPECTION	responsibility to ensure that the e	quipment supplied conforms to the correct specifications	
	AND TESTING	and is free from manufacturing and		
		(b) OIL's representative shall witnes	ss hydrostatic tests. When hydrostatic tests are performed,	
		the indicating Gauge shall be con-	nected to the uppermost part of the Equipment. Testing	
		water shall be Salt free. Final hydro		
		the Equipment shall be dispatched	in as tested condition. Minimum metal temperature during	
		hydrostatic tests shall be 20°C. Tes	t pressures shall be maintained for at least one hour. Shell	
		and Tube sides shall be tested sepa	rately.	

	(c) N.B.:	
	(i) Material test (MOC) certificates of the components must be furnished at the time of Pre-	
	Despatch Inspection for review.	
	(ii) Charges for carrying out the above tests at the manufacturer's facility should be included	
	in the purview of the offer. However, cost of travelling, boarding, lodging of OIL's engineers	
	will be to OIL's account.	
K. PACKING &		
TRASPORTAT	journey. The package should be suitably packed to withstand ingress of water. All items shall	
ION	have their respective identification letters or numbers painted on them and they shall be	
	suitably packed to provide ease of handling and storage and maximum protection during	
	transport and storage period. Crates and boxes shall have a list of items contained therein	
	secured to the exterior by piece of an enveloping piece tin sheet nailed to the wood. A	
	duplicate list shall also be included inside, with the contents, sling points shall be clearly	
	indicated on the crates.	
	NB: Any Item found defective/ damaged during transit shall have to be replaced / rectified by	
	the supplier at no additional cost.	
L. INSTALLATIO	a) The Heat Exchangers are to be supplied in assembled condition, so that, after	
N &		
COMMISSIO	Exchangers can be put to use by simply connecting the Inlet – Outlet pipings. Necessary	
NING	Civil work and laying of Inlet – Outlet pipings shall be done by OIL.	
MING		
	6	
	in the presence of OIL representatives at its fields at Duliajan, Assam (India). Service of	
	qualified and competent personnel from equipment manufacturer is essential during	
	commissioning.	
	c) Commissioning charges should be quoted separately which shall be considered for	
	evaluation of the offers. These charges should included amongst others to and fro fares,	
	boarding/lodging and other expenses of the commissioning engineers during their stay at	
	Duliajan, Assam (India). Bidders should also confirm about installation/ commissioning in	
	the Technical Bid.	
	d) The Heat Exchangers shall be treated as commissioned only after successful completion of	
	a trial run for a minimum period of 72 hrs and on satisfactory performance shall be	
	subsequently handed over to OIL.	

M. WARRANTY	The warranty period for the Heat Exchangers and all a	ncillary equipment shall be a minimum		
	of 18 months from the date of dispatch / shipm	ent or 12 months from the date of		
	commissioning whichever is earlier.			
N. CHECK LIST	TECHNICAL CHECK LIST FOR HEAT EXCHANGERS (Please	e tick YES or NO)		
			YES	NO
	1. Whether the bidder has submitted their offer(	Technical) by duly filling up the "Bidder's Offer" column of the attached		
	Bidder's Response Sheet.			
	2. Whether quoted as OEM of Heat Exchangers and	whether documentary evidences submitted ?		
	3. Whether quoted as authorised dealer of Heat Ex	changers and whether documentary evidences submitted?		
	4. Whether the offered Heat Exchangers design of	conforms to ASME section VIII div I and TEMA 'C' for Mechanical Design		
	specifications?			
	5. Whether the designed Temperature of Shell Fluid	d Outlet of the Heat Exchangers is 40°-45° C?		
	6. Whether separately highlighted any deviation from	om the technical specifications?		
	7. Whether the Pre-despatch inspection of the Hea	t Exchangers shall include Hydro Test of Shell and Tube Separately?		
	8. Whether the Commissioning charges should are	quoted separately which shall be considered for evaluation of the offer(s)?		
	9. Whether the bidder has submitted the undert	aking that the offered Materials of Construction shall be suitable for the		
	Operation of the Heat Exchanger(s) under condit			
		ing that the design of the offered heat exchanger(s) shall be suitable for the		
	Operation of the Heat Exchanger(s) under condit			
		ting that in case the order is placed on the bidder, the Heat Exchanger(s) to		
		Il it's accessories), will be manufactured after the bid closing date of this		
	tender?			
Signature				
Name				
Designation				
<b>Contact Number</b>				
E-mail ID				
Name of Company	/ / Organization			
Stamp / Seal of Company / Organization				

**ANNEXURE -DDD** 

## ANNEXURE HHH- Technical evaluation matrix for BEC/BRC for TENDER NO. SKI 9923P19/03

Srl No	Clause No of Tender Document/ BEC/BRC Technical Specification/	Description	Bidders Remarks Complied/ Not Complied/ Deviation	Bidder to indicate Relevant Page No of their Bid to support the remarks/ compliance
	Scope of Work			
		The bid must conform to the specifications and terms and conditions given in the enquiry. Bid will be rejected in case the items offered do not conform to all the required technical parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements shall have to be particularly met by the bidders, without which the offer will be considered as non-responsive and rejected.		
1.	BID REJECTION CRITERIA (TECHNICAL)	1.0 The bidder should be an OEM of Heat Exchangers or authorized dealer of OEM of Heat Exchangers. Valid documentary evidence in this regard must be furnished along with the offer by the bidder.		
2.		2.0 The Bidder should have the experience of successfully executing at least 01(one) similar order of total value Rs. 20,08,270.00 (Rupees Twenty Lakhs Eight Thousand Two Hundred Seventy) only in the last 05 (Five) years preceding the bid closing date (technical) of the tender; in PSUs, State/ Central Govt. Undertakings, Public Limited Companies. Copies of purchase orders from the clients are to be forwarded along with the offer.  Note:  Similar order means: Orders for Manufacture and Supply of Shell and Tube Type Heat Exchangers.		
3.	BID REJECTION CRITERIA (FINANCIAL)	1.0 Annual Financial Turnover of the bidder during any of preceding three financial / accounting years from the original bid closing date should be at least Rs. 20,08,270/-		
		1.1Net worth of bidder must be positive for preceding financial/ accounting year.		
		2.0Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting		

year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying that 'the balance sheet/Financial Statements for the financial year...... (as the case may be) has actually not been audited so far'.

**Note:** (a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-

i) A certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE-B.

OR

- ii) Audited Balance Sheet along with Profit & Loss account."
- b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.

Note: The original Bid Closing date shall be considered by OIL for evaluation of BRC Criteria even in case of any extension of the original Bid closing date. Bidders to quote accordingly.

#### **SPECIAL NOTES**

- a) Bidders without having E-tender Login ID and Password should complete their online registration at least seven (7) days prior to the scheduled bid closing date and time of the tender. For online registration, Bidder may visit the OIL's E-tender site <a href="https://etender.srm.oilindia.in/irj/portal">https://etender.srm.oilindia.in/irj/portal</a>
- b) Necessary Login ID & Password will be issued by OIL only after submitting the complete online registration by the Bidder. In the event of late registration/incomplete registration by Bidder, OIL INDIA LIMITED shall not be responsible for late allotment of User ID & Password and request for bid closing date extension on that plea shall not be entertained by Company.
- c) MSEs Units (manufacturers/Service Providers only and not their dealers/distributors) who are already registered with District Industry Centers or Khadi & Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts & Handloom or any other body specified by Ministry of MSME are exempted from payment of Bid Security (EMD) irrespective of monetary limit mentioned in their registration, provided they are registered for the item they intend to quote/participate.
- d) For availing benefits under Public Procurement Policy (Purchase preference & EMD exemption), the interested MSE Bidders must ensure that they are the manufacturer/service provider of tendered item(s) and registered with the appropriate authority for the said item(s). Bids without EMD shall be rejected, if the technical offer does not include a valid copy of relevant MSE Certificate issued by appropriate authority specifying the item as per tender. Therefore, it is in the interest of such MSE Vendors to furnish a copy of complete certificate to the concerned tender handling officer of OIL at least seven (7) days prior to the scheduled Bid Closing Date of the tender; seeking clarification/confirmation as to whether their registered item is eligible for EMD exemption or not. Late communication in this regard and request for bid closing date extension on that plea shall not be entertained by Company.