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Tender No & Date : **SKI6006P15** **Date: 20.01.2015**

Tender Fee : **Rs 1,000.00**

Bid Security Amount : **Rs 71,000.00**

Bidding Type : **Single Stage Composite Bid**

Bid Closing on : As mentioned in the Basic Data of e-portal

Bid Opening on : As mentioned in the Basic Data of e-portal

Performance Guarantee : Applicable

Integrity Pact : Applicable

Delivery Required : **At DULIAJAN, ASSAM**

OIL invites Bids for **DESIGN,SUPPLY,INSTALLATION AND COMMISSIONING OF BELT DRIVE ON 02 (TWO) NOS. OF NATIONAL OILWELL MAKE 12-P-160 PUMPS** :as per **Annexure II** through its E-Procurement site. The bidding documents and other terms and conditions are available at Booklet No. MM/CALCUTTA/E-01/2010. 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 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 is invited with firm price for the specified quantity. Further details of tender are given below:-

SI No. & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUANTITY	UNIT
10 ----- 0C000451	<u>DRIVE CONVERSION OF 12-P-160 PUMP</u> DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF BELT DRIVE ON 02 (TWO) NOS. OF NATIONAL OILWELL MAKE 12-P-160 PUMPS : <u>DETAILS SPECIFICATION IS GIVEN BELOW</u>	02	NO
20	INSTALLATION & COMMISSIONING	01	AU

Details Specification for Item 10:-

DESIGN, SUPPLY, INSTALLATION AND COMMISSIONING OF BELT DRIVE SYSTEM FOR 12-P-160 SLUSH PUMP

To design and replace the Drive System from Chain to V-Belt along with supply of mother skid and belt guards on 02 (two) nos. of National Oil well make 12-P-160 slush pumps having a HP of 1600 each under the following scope of supply.

SCOPE OF SUPPLY

1. The supplier shall supply 02 (two) nos. of Pump sheaves (pulleys) with 8 (Eight) grooves for each pump with suitable Q-D bushing (hub) to be fitted on the pinion shaft extension at both sides of the pumps.
2. The supplier shall supply 02 (two) nos. of matching Motor sheaves (pulleys) for each pump so as to fit in the existing motor hub. (as per drawing provided).
3. The supplier shall supply 02 (two) nos. of banded power V-Belt (8 V groove) of preferably GATES or equivalent make for each pump.
4. The supplier shall provide 02 (two) nos. of detachable type Belt guards with 2-piece design for each pump.

5. The bidder shall modify and lengthen the pump skid as deemed necessary to accommodate the motor mounting plates.
6. The bidder shall supply 01 (one) no. of brand new Oil field type Mother skid for each pump. (as per drawing provided).
7. The bidder shall supply all the materials including welding machines with certified welder and consumables required for fabrication and commissioning of the Drive System.

At present, we have 02 (Two) nos. of National Oil well make 12-P-160 pumps driven by Diesel Engines via sprocket and chain drive. We would like to replace the existing Chain drive system with a Belt drive with 8V banded V-belt. Suitable sheaves with Q-D bushings are to be fitted on both sides of Pinion Shaft extensions of the pump. Motor sheaves are also to be supplied as per enclosed Motor hub drawing and to be fitted on the motor shafts.

PUMP SPECIFICATION:

Sheaves (Pulleys) and bushings should be designed as per the following technical considerations. Pitch of the pulley should be as per the 8V banded belt profile. The material of the pulley should be cast iron having sufficient load bearing capacity. The surface finish of pulley and its grooves are to be maintained at 1.6 micron or less.

Dimension of Pump Pinion Shaft Extension where sheaves (pulleys) and Q-D bushings (hubs) are to be fitted:

Diameter of Pinion Shaft: 9 ¼" (234.95mm)
Length of pinion shaft extension overhang: 18 ½" long (469.9 mm)
Brake Input Horse Power of Pump Motor: 467 at 225 RPM
700 at 338 RPM
933 at 450 RPM
1167 at 563 RPM
1400 at 675 RPM

Centre distance between Pinion shaft and Motor shaft centre : 7' 8 ¼ " (2356 mm)

MOTOR SPECIFICATION:

Motor Horse Power: 1000 HP AT 1050 RPM
RPM of the Motor: 1050 RPM
Armature Rating: 750 V, 1050 Amps (continuous)
Torque: 5000 lbs.ft
Speed Ratio: 1050 : 675 = 1.555 : 1
Make: BHEL
Model: 4903 BX/CX

SKID SPECIFICATION:

The skid should be made of ISMB 250, IS: 2062 grade A beam. All four runner/long section of the skid should be of single piece each. Skid should be provided with necessary clamps and other attachment for fixing up with the Pump Skid.

1. Welding procedure: All welding procedure should be in accordance with ASME section IX. All welding electrodes should be as per AWS or IS 814. The welding procedure test should demonstrate that all details are satisfactory for obtaining full penetration weld. All welds should be visually inspected to ensure compliance with requirement of ANSI B 31.1. All layers of welds should be visually examined and critical welds should be subjected to magnetic particle or dyes penetration method as detailed in ANSI B 31.3.

2. Surface preparation/ Sand blasting / Painting: All oil deposits should be removed by using approved de-greasing agents. The air used for blast cleaning and after cleaning should be free from moisture and all oil contamination. All welds should be made free of slag, slag inclusion, pinhole and spatter. Scraping and wire brushing should be carried out on steel works after removing all oil and grease deposit, using approved degreasing agents and solvent. Painting should be carried out on sand blasted areas in following manners: i) one coat of inorganic zinc primer 70 microns in thickness and ii) two coats of Pack High Build Polyurethane. Finally the Skid should be painted with enamel paint in addition to zinc silicate primer and polyurethane paint. The colour shades and grade shall be decided at the time of inspection.

BELT GUARD SPECIFICATION:

1. The Belt guards should be fabricated from 1 1/16" thick mild steel sheet metal as per IS 2062.
2. The Belt guards shall be detachable type with two piece design to be fitted at both sides of the pump.
3. The Belt Guards shall have required number of windows and covers, drain plug etc.
4. The Belt guards shall have to be fitted with Belt Tensioner Indicator.

NOTE:

1. It is to be noted that by the word 'Pump Skid', we mean the original skid which came along with pump at the time of purchase which is an integral part of the Pump. On the other hand "Mother Skid" is an extra skid on which the pump with its original welded skid will be mounted and bolted universally called skidded on master skid.
2. Both the motors are to be mounted on 2" thick Mild Steel plate (pad) with suitable jacking arrangements so that it can move to and fro horizontally on the modified portion of the Pump skid to adjust belt tension.
3. The bidder has to carry out the job of modifying the existing Pump skid at Duliajan, Assam and necessary materials required for that job are to be supplied by the bidder.
4. The bidder shall provide the Design and technical justification for selecting a particular pulley with bushing for Pump and Motor at rated speeds and HP furnished by us.
5. The bidder shall have to supply a total no. of 04 (Four) brand new Belt Guards as per drawing for both the pumps.
6. The bidder shall have to provide relevant technical details and Dimensional drawings of the offered drive along with their offer.

7. The bidder shall have to supply a total no. of 02 (two) brand new Mother skids as per drawing on which the pumps will be placed.
8. The bidder shall have to provide the complete bill of materials required for replacement of the Belt Drive.
9. The bidder shall have to visit our works in Duliajan, Assam at their own cost to design the Drive System which are to be finally approved by us.

INSTALLATION, COMMISSIONING AND TESTING:

The bidder has to carry out the following jobs:

1. Modification and extension of existing Pump skid.
2. Fixing up Q-D bushing and sheaves on the Pump pinion shaft extension.
3. Fixing up sheaves on the Motor shaft.
4. Placement of motors on 2" thick MS plate on the extended portion of Pump skid.
5. Fixing up necessary provisions in the motor mounting plates so that the plates can be moved longitudinally to adjust belt tension.
6. Fixing up 8V banded power V-belt with pinion shaft sheaves and motor sheaves.
7. Installation of Belt Guards.
8. After installing Drive System, the pumps will be tested at OIL's works in Duliajan at no load and load condition at various RPM.
9. Commissioning will be taken as complete only after successful load test for 7 days.

TERMS AND CONDITION:

1. All the materials including welding machines with certified welder and consumables required for fabrication and commissioning of the Drive System shall be provided by the bidder.
2. OIL will provide Crane service whenever required with prior intimation.
3. The job should be carried out by qualified and experienced engineers only.
4. The job undertaken shall be completed to the full satisfaction of OIL.
5. The tools required for installation and commissioning of the Belt Drive shall have to be arranged by the bidder.
6. No accommodation and local transportation will be provided by the company to the personnel deployed by the bidder.
7. OIL will provide only the transportation facility from Duliajan to the site where installation and commissioning will be carried out.

The tender will be governed by:

- a) "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).
- b) Technical specifications with BEC/BRC as per **ANNEXURE II**.
- c) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.
- d) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date shall not be permitted to revise their quotation.

- 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 Technical bid **CHECK LIST** and **RESPONSE SHEET** given in MS excel format in Technical RFx -> External Area - > Tender Documents. The above filled up document to be uploaded in the **Technical RFX** Response.

g) Integrity Pact :

OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure V** of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e. who is duly authorized to sign the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid.

The name of the OIL's Independent External Monitors at present are as under:

- i) **SHRI N. GOPLASWAMI, I.A.S. (Retd.),**
Former Chief Election Commissioner of India
E-mail Id : gopalaswamin@gmail.com
- ii) **SHRI RAMESH CHANDRA AGARWAL, IPS (Retd.)**
Former Director General of Police
E-mail Id : rcagarwal@rediffmail.com

Special Note:

1.0 General Qualification Criteria:

In addition to the general BRC/BEC, following criteria on Bidders' Experience and their financial capabilities shall be considered (documentary evidence to be provided along with the bid in Technical RFx -> External Area - > Tender Documents as on the Bid Closing Date:

- a) **Bidder should have experience of successfully executing similar order for at least **Rs 21.20 Lakhs** during last 3 years as on the Bid Closing Date.**

b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than **Rs 70.72Lakhs.**

- 2.0 Application showing full address / e-mail address with Tender fee (non-refundable) of ₹ 1000.00 per tender (excepting PSU and SSI units registered with NSIC) by Demand Draft in favour of M/s. Oil India Limited payable at Kolkata and to be sent to Head-Calcutta Branch, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001. Application shall be accepted only upto one week prior to Bid Closing date. The envelope containing the application for participation should clearly indicate “REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO SKI6006P15 dated 20.01.2015 for easy identification and timely issue of authorisation.
- Alternatively**, applicants already having User ID & Password for OIL’s e-portal can pay the requisite tender fee and bid security against this tender through the online payment gateway.
- On receipt of requisite tender fee and subject to fulfilment of eligibility criteria, USER_ID and initial PASSWORD will be communicated to the bidder (through-e-mail) and will be allowed to participate in the tender through OIL’s e-Procurement portal. No physical tender documents will be provided. USER_ID AND INITIAL PASSWORD WILL BE ISSUED TILL ONE WEEK PRIOR TO THE BID CLOSING DATE.
- 3.0 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 **Head-Calcutta Branch, 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
- 4.0 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.
- 5.0 All the Bids must be Digitally Signed using “Class 3” digital certificate (e-commerce application) with organisation 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.
- 6.0 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.
- 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-II. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria contradict the Clauses of the tender and / or “General Terms & Conditions” as per Booklet No. MM/CALCUTTA/E-01/2010 for E procurement (LCB Tenders) to General Terms and Conditions for Indigenous E-Tender elsewhere, those in the BEC / BRC shall prevail.
- 9.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of 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.
10. Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

NOTE:

- 1. Bidders should submit their bids explicitly mentioning compliance / non compliance to all the NIT terms and conditions.**
- 2. PSUs and SSI units are provided tender documents Free of Cost (as per govt guidelines), however they have to apply to OIL's designated office to issue the tender documents before the last date of sale of tender document mentioned in the tender.**

BID EVALUATION CRITERIA/BID REJECTION CRITERIA

The following BRC/BEC will govern the evaluation of the bids received against this tender. Bids that do not comply with stipulated BRC/BEC in full will be treated as non responsive and such bids shall prima-facie be rejected. Bid evaluation will be done only for those bids that pass through the “Bid Rejection Criteria” as stipulated in this document.

Other terms and conditions of the enquiry shall be as per General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BRC / BEC) contradict the Clauses of the tender or MM/CALCUTTA/E-01/2010 elsewhere, those in the BRC / BEC shall prevail.

BID REJECTION CRITERIA

The bids shall conform generally to the specifications and terms as well as conditions laid out in the tender. Bids will be rejected in case the items offered do not conform to the required 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 will have to be met by the bids, without which, the same shall be considered as non-responsive and stand rejected

1. The bidder must have credential of designing , supplying and commissioning similar type of Belt Drive Conversion job. Necessary evidence in the form of order copies / proof of supplies / acceptance / performance certificates should be submitted along with the offer.
2. Bidder must submit with their offer the detailed design and drawings with dimensions & specifications of the Belt Drive System along with skid and belt guard, failing which the offer will be liable for rejection.
3. Bidder should have the required machinery, manpower and resources to execute the Belt Drive Conversion job along with supply of Mother skids and Belt guards. A list of all the facilities (including list of machineries) available is to be submitted along with the offer.
4. The bidder should be a Government registered vendor. Necessary proof in support of the same should be furnished.
5. Bidder should have successfully executed a single order of value not less then Rs. 21.2 Lakhs (Twenty One Lakhs Twenty Thousand) of Commissioning of Belt Drive System in the past 3 years (the 3 years to be counted from the B.C date) . Necessary proof in support of the same should be submitted along with the offer failing which the offer will be rejected.

MATERIALS SPECIFICATION:

1. The compliance with technical specifications is the vital criteria for accepting the offer. The offer should meet all the technical specifications and the entire scope of work. Any deviation from the above will lead to rejection of the offer.
2. The offer should contain complete technical information and essentially include the following:
 - i) Complete set of structural drawing with bill of materials.
 - ii) Details (like make / brand / model / number etc) of the major bought out items.
 - iii) List of fabricating machinery available.
3. Bidders are advised to ensure full compliance with all the requirements and to confirm the same in their offer, to avoid any post tender clarifications.
4. Unsolicited post tender clarifications / modifications will lead to the rejection of the bid. However, in case any clarifications sought by the Company, the bidder should submit the replies restricting only to the clarification sought and within the specified timeframe.
5. Any variation or non-conformity to the tender specification should be clearly mentioned in the proforma given in the Tender. Deviation taken elsewhere in the offer will not be given cognizance.

OTHER CRITERIA:

1. The compliance with technical specifications is the vital criteria for accepting the offer. The offer should meet all the technical specifications and the entire scope of work. Any deviation from the above will lead to rejection of the offer.
2. The offer should contain complete technical information and Complete set of skid drawing with bill of materials. The bidder should provide cost break-up of the estimate.
3. Bidders are advised to ensure full compliance with all the requirements and to confirm the same in their offer, to avoid any post tender clarifications.

4. Any variation or non-conformity to the tender specification should be clearly mentioned in the proforma given in the Tender. Deviation taken elsewhere in the offer will not be given cognizance.

WARRANTY/ GUARANTEE

The skid should have to minimum onsite warranty of one year from the date of installation. Bidder should confirm it along with quotation. The offer, taking exception to this will be rejected.

B:COMMERCIAL

- i) **Bid security of Rs 71,000.00** is to be submitted in the form of bank guarantee as per format given in document MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders and is to be submitted in sealed envelope superscribed with BID SECURITY AGAINST Tender no. SKI6006P15/08 dated 20.01.2015 to Head Calcutta Branch, Oil India Limited, 4, India Exchange Place , Kolkata-700001 only on or before the Bid Closing Date and Time mentioned in the Tender. **Alternatively bid security may be paid online through e procurement portal.** For exemption for submission of Bid Security, please refer relevant para of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. **The Bid Security shall be valid for six month from the bid validity.**
In case of extension of Bid Closing Date against the tender where a bidder has already submitted his bid with requisite bid security validity within the original B.C. date, such bidders will extend validity of bid security covering the extended period of the bid closing date.
- ii) **Validity of the bid shorter than the validity indicated in the tender will be outright rejected.**
- iii) **The average annual turnover for the last 3 (three) financial years should not be less than Rs. 70,72,000.00.**
- iv) 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.
- v) Successful bidder will be required to furnish a **Performance Bank Guarantee @10%** of the order value. For exemption for submission of Performance Bank Guarantee, please refer relevant para of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. The Performance Bank Guarantee must be valid for one year from the date of successful commissioning of the equipment or 18 months from the date of despatch whichever is earlier. **Bidder must confirm the same in their bid. Offers not complying with this clause will be rejected.**

The validity requirement of Performance Security is assuming despatch within stipulated delivery period and confirmation to all terms and conditions of order. In case of any delay in despatch or non-confirmation to all terms and conditions of order, validity of the Performance Security is to be extended suitably as advised by OIL.

- vi) ***The Bank Guarantee should be allowed to be encashed at all branches within India.***
- vii) Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.
- viii) **Validity** of the bid shall be minimum **120 days** from the Bid Closing Date. Bids with lesser validity will be rejected.
- ix) Bids containing incorrect statement will be rejected.
- x) All the Bids must be Digitally Signed using “Class 3” digital certificate (*e-commerce application*) as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than “Class 3” digital certificate, will be rejected.
- xi) **Integrity Pact** : OIL shall be entering into an Integrity Pact with the bidders as per format enclosed with the tender document. This Integrity Pact proforma has been duly signed digitally by OIL’s competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid. Any bid not accompanied by Integrity Pact Proforma duly signed (digitally) by the bidder shall be rejected straightway. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder’s authorized signatory who sign the Bid.

2.0 BID EVALUATION CRITERIA (BEC):

A. TECHNICAL:

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 (BRC) will be considered for further evaluation as per the Bid Evaluation Criteria given below.

- i) In the event of computational error between unit rate and total price, the unit rate as quoted by the bidder shall prevail.

- ii) Similarly in the event of discrepancy between words and quoted figure, words will prevail.
- iii) Evaluation will be done on 'total contract cost' basis to ascertain the lowest bid.

B. COMMERCIAL:

- i) To evaluate the inter-se-ranking of the offers, Assam entry tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date.
Bidders may check this with the appropriate authority while submitting their offer.
- ii) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in to must be received on or before the dead line given by the company, failing which the offer will be summarily rejected.

Standard Notes:

- A. The original bid security (Amount is mentioned above and also in Basic Data of the tender in OIL's e-portal) should reach us before bid closing date and time .Bid without original Bid Security will be rejected. In lieu, bidders can also pay the Bid Security amount online through e-procurement portal. The bidders who are exempted from submitting the Bid Bond should attach documentary evidence in the Collaboration folder as per General Terms and conditions for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).
- B. All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) only 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, will be liable for rejection.
- C. "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).