

## **IMPORTANT NOTE**

**BID DOCUMENT HAS BEEN DISPLAYED BELOW TO UNDERSTAND THE REQUIREMENT ONLY. PARTIES INTERESTED TO PARTICIPATE AGAINST THIS TENDER SHALL HAVE TO PURCHASE THE TENDER DOCUMENTS FROM ANY OF OIL'S DESIGNATED OFFICES MENTIONED IN THE TENDER NOTIFICATION GIVEN BELOW. PROOF OF PURCHASE OF TENDER DOCUMENT MUST BE SUBMITTED ALONGWITH THE OFFER, FAILING WHICH OFFERS WILL BE TREATED AS UNSOLICITED.**



**OIL INDIA LIMITED**  
(A Govt. of India Enterprise)  
P.O. Duliajan-786602, Assam  
**E-mail:material@oilindia.in, Fax No.91-374-2800533**

**OIL INDIA LIMITED invites sealed tenders for the following:**

<b>Tender No.</b>	<b>B. C. Date</b>	<b>Material Description</b>
DID7049P08/GC	27.12.2007	Reciprocating Pump = 8 Nos. <b>(Single Stage Two Bid System)</b>

**2.0** Bid documents (Non transferable) can be purchased from 26.11.2007 till one day prior to the respective B.C. Dates on payment of tender fee of Rs.1,000.00 (excepting for PSUs and SSI units registered for the item) each through Crossed Demand Draft in favour of M/s. Oil India Limited payable at the place of purchase of tender document from

- Head - Materials, Oil India Limited, P.O. Duliajan, Assam -786602
- Head -Calcutta Branch, Oil India Limited, 4,India Exchange Place, Kolkata - 700001
- Senior Adviser(Contract & Purchase), Oil India Limited, Plot No. 19, Sector- 16 A, NOIDA-201301
- Addl. Chief Materials Manager (Pipeline), Oil India Limited,PO: Udayan Vihar, Guwahati - 781171.

**3.0** Detailed tender document will be available in OIL's website [www.oilindia.nic.in](http://www.oilindia.nic.in)

**4.0** To be eligible for issue of tender documents, the applicant must meet the following qualifying criteria (documentary evidence to be provided) :

i. Successful execution of a single order of value not less than the amount shown below for supply of similar items during last five years:

<b>Tender No.</b>	<b>Single Order Value in Lakhs (Rs.)</b>
DID7049P08/GC	100.00

ii. Annual turnover of the firm in any of the last three financial years or current financial year should be more than the amount as below :

<b>Tender No.</b>	<b>Annual Turnover in Lakhs (Rs.)</b>
DID7049P08/GC	200.00

**OIL INDIA LIMITED**  
(A Govt. of India Enterprise)  
P.O. Duliajan-786602, Assam

**E-mail: material@oilindia.in, Fax No.91-374-2800533**

**Tender No. & Date : DID7049P08/GC 02.11.2007**

Bid Security Amount : INR 500,000.00 OR USD 0.00  
(or equivalent Amount in any currency)

**Bidding Type : Two Bid**

Bid Closing On : 27.12.2007 at 13:00 hrs. (IST)  
Bid Opening On : 27.12.2007 at 13:00 hrs. (IST)

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> 0C000457	RECIPROCATING PISTON PUMPS FOR BOWSER LOADING PUMPSETS. Detailed <b>SPECIFICATION</b> and <b>TERMS &amp; CONDITIONS</b> are given in <b>ANNEXURE-I</b> . Detailed <b>BEC/BRC</b> criteria is given in <b>ANNEXURE-II</b> .	8	NO
	<b>INSTALLATION &amp; COMMISSIONING</b>		
20	INSTALLATION & COMMISSIONING	1	AU

**Standard Notes:**

**Special Notes :** (1) Bidders should note the bids will be subjected to **Bid Evaluation Criteria/Bid Rejection Criteria** given in **Annexure-II** and should quote accordingly.

(2) Bidders are requested to submit their bids under **SINGLE STAGE TWO BID SYSTEM**. The "TECHNICAL" and "COMMERCIAL" bids shall be prepared separately in triplicate and the same should be kept in two separate envelopes superscribing the Tender No., Brief Materials Description and Bid Closing Date and clearly writing on the cover of the two envelopes as "TECHNICAL" and "COMMERCIAL". Both the envelopes should then be kept in one envelope duly sealed, superscribing the Tender No., Brief Materials Description and Bid Closing Date on the cover. The Technical Bid should contain all the Techno-Commercial terms and conditions including bid bonds excepting the prices which should be kept blank. The Commercial Bid should contain the price schedule only. All other terms and conditions remain unchanged.

(3) To evaluate the inter-se ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing Government of Assam Guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their bids.

**RECIPROCATING PISTON PUMPS FOR BOWSER LOADING ON CONTINUOUS DUTY APPLICATION:**

**A. PUMP**

**1. Type :**

Horizontal, triplex single acting / duplex double acting reciprocating piston pumps on continuous duty application as per Hydraulic Institute Standard.

**NOTE :** “**Continuous duty**” means pump having service operation on full load for a period of 8 hours to 24 hours per day as per Hydraulic Institute Standard application. .

**2. Capacity and Discharge :**

The piston size selected should be adequate to meet the pressure and volume requirements of 25 kg/cm<sup>2</sup> and 20 m<sup>3</sup> /hr respectively.

**3. Fluid end Features :**

- (i) Forged carbon steel / pressure tested casting, one piece fluid end with bolted valve covers.
- (ii) Replaceable, high carbon steel, case hardened and honed, fluid cylinder liners
- (iii) Hardened steel fluid valves with rubber / polyurethane inserts.
- (iv) Replaceable type valve, valve seat of hardened and ground special steel having non corrosive properties for longer life preferably of Forged Stainless Steel (SS304)
- (v) Replaceable fluid pistons, single acting / double acting type, taper fitted to piston rods.
- (vi) Alloy steel, case hardened and polished, piston rods
- (vii) Self lubricating glands with piston rod packing
- (viii) Fluid end of SG Iron casting / EN-8 Forged
- (ix) Stuffing Box of Forged Stainless Steel (SS304)
- (x) Fluid end piston of SS304

**4. Power end Features : Either Category A or Category B**

**Category A (For triplex single acting piston pumps)**

- i. One piece cast iron frame integrating main bearing housing and crosshead guides ensuring perfect alignment and rigidity.
- ii. Alloy / carbon steel crankshaft
- iii. Heavy duty taper roller crankshaft bearing
- iv. Two piece, steel backed, precision type, aluminum alloy/ babbitt line crank pin bearings.
- v. Nodular / S.G. iron or heat treated alloy steel connecting rods
- vi. Nodular /S.G. / Alloy iron cross heads, heavily reinforced around piston rods and cross head pin bosses.
- vii. Bronze / gunmetal crosshead pin bushings
- viii. Alloy steel crosshead pins
- ix. Flooded sump splash lubrication for power end
- x. Sight glass gauge or oil level dipstick

## **Category B (For duplex Double Acting Piston Pumps)**

- i. One piece cast iron frame integrating main bearing and jackshaft bearing housings and crosshead guides ensuring perfect alignment and rigidity.
- ii. Main gear eccentric having one piece casting herringbone gear integral with eccentric designed to withstand heavy load and ensure perfect alignment.
- iii. Alloy /carbon steel shaft for main gear eccentric
- iv. Adjustable, taper roller, main bearings
- v. Taper roller bearing /roller bearing supported jackshaft extended on both sides to accept a variety of drive arrangements.
- vi. Replacement, single piece, high lead bronze eccentric bushings
- vii. Nodular /S.G. iron or heat treated alloy steel connecting rods.
- viii. Solid type, nodular / S.G. / Alloy iron cross heads, heavily reinforced around piston rods and cross head pin bosses
- ix. Bronze / Gunmetal crosshead pin bushings
- x. Alloy steel crosshead pins
- xi. Flooded sump splash lubrication for power end
- xii. Sight glass gauge or oil level dipstick

### **5. Accessories :**

- i. Suitably sized and rated safety relief valve mounted on the discharge piping
- ii. Discharge pressure gauge having a range of 0-50 kg/cm<sup>2</sup>
- iii. Suitably designed suction stabilizer and discharge pulsation damper, mounted and installed in line with the suction and discharge piping
- iv. Properly raised main line and bleed line gate valves.
- v. Complete set of fitting, interconnection pipings and companion flanges with appropriate bolting, gaskets dampener brackets, etc.

### **6. Duty / Services :**

The pump should be designed for continuous duty/service as per Hydraulic Institute Standard. It shall be deployed to load crude oil onto bowsers at well head setups, from crude oil storage tanks.

**NOTE :** “**Continuous duty**” means pump having service operation on full load for a period of 8 hours to 24 hours per day as per Hydraulic Institute Standard application.

### **7. Liquid to be handled :**

The pumping unit should be suitable for pumping crude oil, the characteristics of which are given below #

- # API Gravity : 15° - 30°
- # Pour point : 3 - 39° c
- # Salinity : Up to 5000 ppm
- # Temperature : 50° c (maximum)

### **8. Suction condition : Negative head of 3 meters**

### **9. Name Plate and Rotation Arrows :**

A nameplate shall be securely attached at a readily visible location wherein the manufactures name, machine serial number, maximum and minimum design limits and rating data, maximum allowable working pressure and temperatures, hydrostatic test pressure etc. should be clearly indicated. Rotation arrows indicating direction of rotation of major items should be cast in or attached.

## **10. Certificate and documents to be forwarded :**

The following documents should be forwarded along with the quotations:

- i. Product line catalogue, specifying materials of construction and constructional features of the pump and technical literatures of all ancillary equipment.
- ii. Performance chart of the reciprocating piston pump including all technical calculations such as hydraulic horse power requirement, volumetric efficiency, mechanical efficiency, RPM, maximum piston rod load, NPSH requirement etc.

The following documents should be forwarded within a month of issue of LOI or placement of firm order:

- i. A foundation diagram for the complete pump set indicating the static and dynamic loads of the package.
- ii. A layout drawing for the complete pump set indicating the orientation of all components to be assembled on the master skid.

The following documents must be forwarded along with the supply of equipment.

- i. Certified test results
- ii. Certificate of hydrostatic testing
- iii. Manufacturers certificate of authenticity
- iv. Certificate of test / conformance of pump
- v. Operation and maintenance manuals, parts lists of pump, gear box and all other accessory equipment.

## **B. SPEED REDUCTION:**

The reduction of speed from the prime mover rated at 1500 RPM to the desired speed of the reciprocating pump shall be effected either by means of #

- A suitably selected and designed external foot mounted gear box. or
- A belt and pulley system

N.B. Guards should be provided over couplings / pulleys & belts used as part of the transmission train. Provision of guards over belt drives and couplings has become mandatory as per recommendations of OISD & DGMs bodies.

## **C. PRIME MOVER (DIESEL ENGINE) :**

The prime mover should be a four stroke, naturally aspirated or turbo charged, vertical in-line, air or water cooled, diesel engine, rated for continuous power and capable of developing a net minimum HP of 50 HP at 1500 rpm at the site conditions given below #

Maximum temperature : 40°C

Minimum temperature : 5°C

Maximum relative humidity at 35°C : 95%

Maximum altitude above mean sea level: 150 M

With HSD conforming to IS: 1593:1982 and having the following specifications:

Cetane number : 42.5

Gross caloric : 19480 BTU /CFT (10000 cal /gm)

The engine shall conform to ISO:3046/BS5514/IS 10000 specifications and shall be rated for continuous, power with an overload power rating of 110% of the continuous power corresponding to engine application, for a period of 1hr. within a period of 12 hrs. of operation.

The engine governing should be in accordance with Class A-2 governing specified in BS: 5514/IS 10,000.

**The engine should comprise of the following sub systems:**

**1. Cooling System**

The cooling system of the air-cooled engine should comprise of a belt and pulley driven blower fan assembly.

**2. Air Intake System**

The air intake system of the engine should comprise a heavy duty oil bath type air cleaner and an air intake manifold.

**3. Starting System**

The starting system of the engine should be a 12 volt electric starting system comprising of a battery of reputed make, batter leads, engine mounted battery charging alternator (Make : LUCAS TVS), 12 volt starter (Make : LUCAS TVS/ DELCO REMY) and a starting ring fitted to the engine flywheel .

**4. Exhaust System**

The exhaust system should comprise of an air cooled exhaust manifold, stainless steel exhaust flexible connection, exhaust silencer, spark arrestor and piping connections.

**5. Fuel System**

The fuel system should comprise of mechanical governor, fuel injectors, fuel pump, fuel filter assembly, fuel lines and a fuel tank having storage capacity to meet the fuel requirement of 12 hours of full load operation.

**6. Lubricating System**

The lubricating system should comprise of gear driven lubricating oil pump, lubricating oil filter with a replaceable filter element, lubricating oil pan, oil level dipstick and crankcase breather.

**7. Instrument Panel**

The instrument panel should include the following #

- i. Lubricating oil pressure gauge
- ii. Starting switch
- iii. Ignition switch
- iv. Digital / mechanical tachometer
- v. Ammeter
- vi. Engine #low lube oil pressure# indication display red lamp

**8. Engine Safety Controls**

Safety shut off / trip system for tripping the engine in the event of #

- i. Low lubricating oil pressure
- ii. Engine over speed

## **9. Other Features :**

- i. Flywheel
- ii. Lifting eyes
- iii. Guards over belt drive (blower fan drive, charging alternator drive pulley).
- iv. Standard painting
- v. SAE standard rotation

**N.B. : Provision of guards over belt drives and couplings has become mandatory as per recommendations of OISD & DGMs bodies.**

## **10. General Notes :**

- a. The engine shall conform to ISO 3046/BS 5514/ IS 1000 specifications and shall be rated for continuous power with an over load power rating of 110% of the continuous power corresponding to engine application, for a period of 1 hr. within a period of 12 hrs. of operation.
- b. The engine governing should be in accordance with Class A-2 governing specified in BS:5514/ IS 10000.
- c. The bidder should submit the following information along with relevant performance rating curves and engine product catalogues.
  - i. Gross HP developed at rated RPM
  - ii. Deduction for blower fan & charging alternator
  - iii. Net HP developed at rated RPM
  - iv. Fuel consumption at rated power as well as 110%, 75% and 50% of rated load
- d. Each pump set should be ready for operation after carrying out initial servicing and making provisions for fuel.

## **D. DRIVE ARRANGEMENT**

The drive arrangement will involve either of the two mechanisms:

- i. Flow of prime mover power through a flywheel mounted clutch PTO to the input shaft of an external foot mounted gearbox and finally to the crankshaft of the triplex pump. Suitably selected flexible disc coupling should be incorporated to transfer power from the prime mover to the triplex pump through the transmission, as illustrated in the schematic.

OR

- iii. Flow of prime mover power through a flywheel mounted clutch PTO to the jackshaft of the piston pump through a suitably designed system of belts and pulleys and finally to the main gear eccentric of the pump.

## **E. MASTER SKID :**

The pump set is to be supplied with all components and accessories fitted and mounted on an oilfield type three runner portable master skid and should be ready for operation after carrying out initial servicing and making provision fuel supply.

While unitizing the pump set, easy approach to various components for maintenance aspects should be kept in mind. The floor of the skid should be covered with anti skid steel plates. The skid should be fabricated out of properly sized beams (minimum 150 mm) to withstand loading / unloading and transfer in oil field trucks. The size should be big enough to provide for sufficient working space in and around the pump set.

## **F. INSPECTION AND TESTING :**

The pump sets shall be inspected by OIL's deputed representative at manufactures works / factory prior to dispatch, for which intimation must be sent to OIL in advance. 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.

The supplier shall carry out full load performance test of the pump sets in presence of OIL's deputed representative at parameters conforming to NIT specifications, where each of the pump sets shall be load tested for minimum period of 4 hours.

## **G. Installation , Commissioning , Testing and Handing Over :**

Installation and Commissioning of the Bowser Loading Pumpset shall be carried out by the bidder in the presence of OIL representatives at its fields at Duliajan, Assam (India). Services of qualified and competent personnel from equipment manufacturer is essential during installation and commissioning of the pump sets. Only competent service personnel shall be engaged for installation, testing and commissioning of pumpsets. Moreover, bidder has to arrange welding and cutting facilities that may be required during installation and commissioning the pump sets. OIL will provide necessary statutory permits for welding and cutting jobs in classified areas as and when required.

Installation / 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). All Personal, Income and Service Tax etc. towards the services provided by the supplier shall be borne by the supplier and will be deducted at source. Bidders should also confirm about installation/ commissioning in the Technical Bid.

**Note :** Once commissioned at designated site the pump set will be subjected to a trial run on available load for a minimum period of 72 hrs continuously and on satisfactory performance shall be subsequently handed over to OIL.

## **H. WARRANTY**

The warranty period for the engine, pump set and all ancillary equipment should be a minimum of 18 months from the date of dispatch / shipment or 12 months from the date of commissioning.

## **I. SPARE PARTS AND SPECIAL TOOL :**

Spares that shall be required for normal operation and maintenance of the pump set for a period of two years should be included in the scope of supply. Bidders should indicate the unit prices of the spares included, indicating the manufacturer's part numbers for each spare offered along with their own equivalent part number if any.

The following should be supplied as commissioning spares (one against each pump set).

- # A set of each type and size of coupling / belt and pulley combination installed in the pump sets.
- # A valve seat puller and special wrenches for tightening stuffing box glands, studs etc.
- # A tool box containing the tools required for routine maintenance of the pump set.

## **J. AFTER SALES SERVICE**

The nature of after sales service, which can be offered by the bidder during initial commissioning and also subsequently should be clearly stated.

Bidders should also confirm that spares, both routine and vital spares, for engine, pump and all accessories quoted, shall be available for at least 10 years after the delivery of the material.

**K.** Bidders are to furnish the following data sheet and technical check list alongwith their offer, failing which offer will liable for rejection:

### **I. DATA SHEETS ( ENGINE )**

1. MAKE
2. MODEL
3. NUMBERS OF CYLINDERS
4. ASPIRATION
5. COMPRESSION RATIO
6. DISPLACEMENT
7. SIZE (BORE X STROKE)
8. DUTY
9. GROSS HP AT RATED RPM
10. DEDUCTION FOR FAN, ALTITUDE, TEMPERATURE
11. NET HP AVAILABLE AT RATED RPM
12. FUEL CONSUMPTION (LT/HR)AT
  - i. 110% Load
  - ii. 100% Load
  - iii. 75% Load
13. LUBRICATING OIL CONSUMPTION (LT/HR)
14. SUMP CAPACITY
15. ACCURANCY CLASS
16. MAKE OF CLUTCH PTO
17. MODEL OF CLUTCH PTO

### **II. DATA SHEET (PUMP)**

1. MAKE
2. MODEL
3. SIZE (PISTON DIAMETER X STORKE LENGTH)

### **III. TECHNICAL CHECK LIST**

1. WHETHER QUOTED AS OEM OF ENGINE AND WHETHER DOCUMENTARY EVIDENCES SUBMITTED? YES/NO
2. WHETHER QUOTED AS OEM OF PUMP AND WHETHER DOCUMENTARY EVIDENCES SUBMITTED? YES/NO
3. WHETHER QUOTED AS AUTHORISED DEALER OF OEM (ENGINE/ PUMP) AND WHETHER DOCUMENTARY EVIDENCES SUBMITTED? YES/NO
4. WHETHER QUOTED AS ASSEMBLER AND WHETHER DOCUMENTARY EVIDENCES SUBMITTED? YES/NO

5. WHETHER SEPARATELY HIGHLIGHTED DEVIATION FROM THE TECHNICAL SPECIFICATION? YES/NO
6. WHETHER SPARES FOR TWO YEARS OPERATION SPECIAL TOOLS AND COMMISSIONING SPARES INCLUDED IN THE OFFER? YES/NO
7. WHETHER SPARES SHALL BE AVAILABLE FOR 10 YEARS AFTER SUPPLY OF EQUIPMENT? YES/NO
8. WHETHER THE NETT HP OF THE ENGINE IS AT LEAST 50 HP? YES/NO
9. WHETHER THE OFFERED ENGINE CONFORMS TO ISO 3046/ BS5514 SPECIFICATION? YES/NO
10. WHETHER THE OFFERED PUMP CONFORM HYDRAULIC INSTITUTE STANDARDS? YES/NO
11. WHETHER THE PUMP IS A SINGLE ACTING TRIPLEX PISTON PUMP? YES/NO
12. WHETHER THE PUMP IS A DUPLEX DOUBLE ACTING PISTON PUMP ? YES/NO
13. WHETHER THE PUMP IS DESIGNED FOR CONTINUOUS SERVICE DUTY? YES/NO
14. WHETHER THE SPEED REDUCTION IS EFFECTED BY AN EXTERNAL FOOTMOUNTED GEAR BOX? YES/NO
15. WHETHER THE SPEED REDUCTION IS EFFECTED BY A BELT AND PULLEY SYSTEM? YES/NO
16. WHETHER THE TESTING OF THE PUMP SETS SHALL BE CARRIED OUT AT MANUFACTURED FACILITY? YES/NO
17. WHETHER PRODUCT LINE CATALOGUE OF THE PUMP, ENGINE AND ACCESSORIES HAVE BEEN FORWARDED WITH THE OFFER? YES/ NO
18. WHETHER GUARD SHALL BE PROVIDED OVER COUPLINGS AND BELT DRIVES?YES/ NO.

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

**(I) BID REJECTION CRITERIA (BRC)**

The bids must conform to the specifications and terms and conditions given in the enquiry. Bids shall be rejected in case the item(s) offered do not conform to the required minimum / maximum 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 :

**(A) TECHNICAL :**

i. The offered pump should be a horizontal triplex single acting / Duplex double acting reciprocating piston pump as per Hydraulic Institute standards , suitable for continuous duty .

**NOTE: “Continuous duty” means pump having service operation on full load for a period of 8 hours to 24 hours per day as per Hydraulic Institute Standard application.**

ii. The offered pump must be suitable for meeting the delivery parameters of 20 M<sup>3</sup> /Hr ( Volume ) and 25 Kg/Cm<sup>2</sup> ( Pressure ) respectively .

iii. The offered engine should be a four stroke , naturally aspirated or turbocharged , vertical, in-line , air or water cooled , Diesel Engine , rated for continuous power, and capable of developing a net minimum HP of 50HP at 1500 rpm .

iv. The engine must conform to ISO 3046 / BS 5514 / IS 10000 specifications and must be rated for continuous power with an over load power rating of 110 % of the continuous power corresponding to engine application , for a period of 1 hr within a period of 12hrs of operation.

v. The bidder should be an OEM or authorized dealer of OEM of the pump or an assembler of pump sets . In all cases the bidder has to purchase the engine from an OEM of Engine or their Authorized Dealer . Documentary evidence in this regard must be enclosed with the offer failing which the offer will be rejected.

vi. If the bidder is an assembler of pump set, he must purchase the pump and the engine from OEM or their authorized dealer. Documentary evidence in this regard must be enclosed with the offer failing which the offer will be rejected. The assembler should indicate that necessary infra-structural facilities for fabrication and load testing of the pump set are available with them. Bidders other than the OEM must furnish the following undertaking from the OEM :

**Date of manufacture , make, model , serial no, test certificate , literatures and parts book of the pump will be supplied if order is placed on the bidder.**

vii. Bidders should have the experience of completing 1(One) order in the last 5(Five) financial years before the bid closing date of this enquiry against **supply of continuous duty pump sets for crude oil pumping and transfer applications** in PSU's, Central Govt. Undertakings, Public Limited Companies or Reputed Private Companies in the Oil & Gas sector . Copies of purchase orders from the clients indicating the supply of such equipment are to be forwarded with the offer. The offers are to be further substantiated by performance certificates from the consumers.

viii. **The model of pump offered should be one that has a proven track record for continuous duty crude oil pumping and transfer applications . The model should be one that has been successfully deployed for any of the continuous duty applications, for a minimum period of 6000 hours or one year from its date of commissioning . Documentary evidence in this regard should be enclosed.**

ix. The bidder must assure that after sales service with respect to the pump set shall be provided by their respective OEM's or authorized dealers.

x. The bidder must undertake and confirm from OEM's that the equipment to be supplied are not going to become obsolete for the next 10 years and provisioning of spares can be continued.

**(B) COMMERCIAL :**

1.0 Bids are invited under **Single Stage Two Bid System**. Bidders shall quote accordingly under **Single Stage Two Bid System**. The “**TECHNICAL**” and “**COMMERCIAL**” bids shall be prepared separately in triplicate and the same should be kept in two separate envelopes superscribing the Enquiry No., Brief Material Description & Bid Closing Date and clearly writing on the cover of the two envelopes as “**TECHNICAL**” and “**COMMERCIAL**”. Both the envelopes should then be kept in one envelope, duly sealed, superscribing the Enquiry No., Brief Material Description and Bid Closing Date on the cover. The Technical Bid should contain all the techno-commercial details of the offer including the commercial terms and conditions **excepting the prices** which should be kept blank. The Commercial Bid should contain the **price only** including all the commercial terms and conditions of the offer. **Any offer not complying with the above shall be rejected straightway.**

2.0 **Bid security of Rs. 5,00,000.00** shall be furnished as a part of the TECHNICAL BID. **Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** For exemption for submission of Bid Security, please refer Clause No. 6.8 of General Terms and Conditions for Indigenous Tender vide MM/TENDER/LP/01/06(enclosed). The Bid Security shall be valid for six month from the date of bid opening.

3.0 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.

4.0 The complete unit shall be under guarantee / warrantee by the bidder for a minimum period of 18 months from the date of dispatch or 12 months from the date of successful commissioning of the complete unit at site whichever is earlier and confirm replacement of defective item , at their own expense within this period. During the warranty period, the equipment needs to function to the satisfaction of OIL.

5.0 Successful bidder will be required to furnish a **Performance Bank Guarantee @10%** of the order value. 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 Technical Bid. Offers not complying with this clause will be rejected.

- 6.0 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.
- 7.0 Original signed offer should be submitted in sealed envelope. No offers should be sent by Telex, Cable, E-mail or Fax. Such offers will not be accepted.
- 8.0 Validity of the bid shall be minimum 120 days. Bids with lesser validity will be rejected.
- 9.0 Bids containing incorrect statement will be rejected.
- 10.0 Bids shall have no interlineation, erasures or overwriting except as necessary to correct the errors made by the bidder, in which case, such corrections shall be initiated by the person(s) signing the bid. Any bid not meeting this requirement shall be rejected.
- 11.0 a) Installation & Commissioning of the equipment shall be carried out by the supplier or their authorized service engineer(s) at Duliajan, Assam. Installation/Commissioning charges must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. **(The amount for this charge should be indicated only in the Commercial bid)**. These charges should include to and fro fares, boarding/lodging, local transport at Duliajan and other expenses of supplier's personnel during installation/commissioning. OIL may provide accommodation on Chargeable basis subject to availability. All Income, Service, Corporate Taxes etc. towards the services provided under installation / commissioning shall be borne by the supplier and will be deducted at source at the time of releasing the payment. **Bidder should confirm about providing all these services in the Technical Bid.**
  - b) Pre-despatch Inspection & Testing charges (by OIL personnel), if any, must be quoted separately on lumpsum basis which shall be considered for evaluation of the offers. The to and fro fares, boarding/lodging and other enroute expenses of OIL's Engineers shall be borne by OIL.

**Note:** Bidders must categorically indicate the Installation / Commissioning, Pre-despatch Inspection & Testing charges in their offers and must confirm the same in their Technical bids. **The amount for these charges should be indicated only in the Commercial bid.** Offers, without any quote for the Installation / Commissioning, Pre-despatch Inspection & Testing charges, shall be loaded with the maximum charges received for the same against the tender for evaluation purposes. Moreover, if the bidder does not quote the Income/ Service taxes etc., the offer shall be loaded with the applicable rate of taxes for evaluation purposes.

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

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 given below:

### **(A) TECHNICAL :**

- 1.0 The bids conforming to the specifications, terms and conditions stipulated in the tender and considered to be responsive subject to the Bid Rejection Criteria will be considered for further evaluation.

**(B) COMMERCIAL :**

- 1.0 The evaluation of bids will be done as per the Price Schedule given in Annexure-II attached with the General Terms and Conditions for Indigenous Tender vide MM/TENDER/LP/01/06(enclosed).
- 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 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.
- 4.0 Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Indigenous Tender vide MM/TENDER/LP/01/06. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BEC / BRC) contradict the Clauses of the tender and / or MM/TENDER/LP/01/06 elsewhere, those in the BEC / BRC shall prevail.

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