



**OIL INDIA LIMITED**  
(A Government of India Enterprises)  
4, India Exchange Place  
Kolkata -1

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Email: oilcalmn@dataone.in;oilcalmn@oilindia.in

TENDER NO. SKI1208P11/08

DATE: 02.03.2011

**INVITATION TO e-BID UNDER SINGLE STAGE TWO BID SYSTEM**

Dear Sirs,

OIL invites Bids for the supply of **POSITIVE DISPLACEMENT SCREW PUMP** through its E-Procurement site under **SINGLE STAGE TWO BID SYSTEM**. 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 tender document folder.

The general details of tender can be viewed at '**Basic data**' under '**Header data**' in Bid invitation screen. The details of items tendered can be found by clicking to 'Item data'.

The tender is invited with firm price for the specified quantity. Further details of tender are given below:-

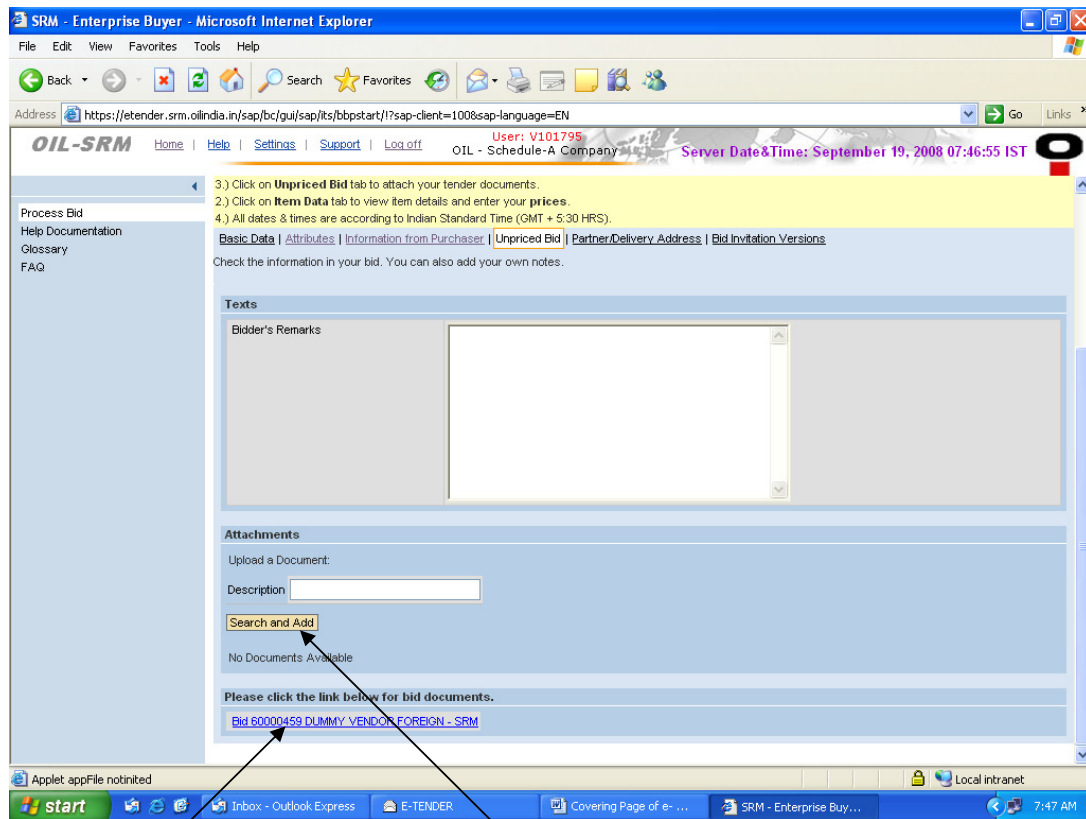
1. Details of Items with Quantity and Unit of measure are as under:

<b>Item No.</b>	<b>Description</b>	<b>Tendered Qty. in Nos.</b>	<b>Unit of Measure</b>
01	<b><u>POSITIVE DISPLACEMENT SCREW PUMP</u></b> Details specifications and quantities are as per <b><u>ANNEXURE II</u></b> in C FOLDER	<b><u>02</u></b>	NO

**The tender will be governed by:**

- "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).
- Technical specifications and Qty. as per **ANNEXURE II** .
- The prescribed Bid Forms for submission of bids are available in the tender document folder. Technical Checklist and Commercial Checklist vide Annexure IV must be filled-up and submitted along with the technical bid.

- d) The tender is invited under **SINGLE STAGE-TWO BID SYSTEM**. The bidders are required to submit both the “**TECHNICAL**” and “**COMMERCIAL**” bids through electronic format in the OIL’s e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the c-Folder link (collaboration link) under Un-priced Bid Tab Page only. **Please note that no price details should be uploaded as c-Folder link (collaboration link) under Un-priced Bid Tab Page. Details of prices as per Bid format / Commercial bid can be uploaded as Attachment in the attachment link under “Unpriced Bid” under “General Data”. A screen shot in this regard is given below.** Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in Annexure-II



**C-FOLDER LINK**

**Details of prices as per Bid format / Commercial bid can be uploaded in this Attachment**

**Notes:**

1. All items should be brand new, unused and of prime quality. Bidder to confirm the same while quoting.
2. Bidder should indicate the name of manufacturer and country of origin.
3. Bidder to indicate the dimensions including the weight of each item.

**Special Note:**

Please note that all tender forms and supporting documents are to be submitted through OIL's E-Procurement site only

Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.

**NB:** 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.

**Integrity Pact :**

a)OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure III** 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.

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

- (I) SHRI N. GOPALASWAMI,I.A.S ( Retd) ,
- (II) SHRI RAMESH CHANDRA AGARWAL , IPS( Retd)

Yours Faithfully  
Sd-

K.Bhattacharjee  
Chief Manager- Materials

**Annexure- III**

**INTEGRITY PACT**

Between

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

And

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

**Preamble :**

The Principal intends to award, under laid down organizational procedures, contract/s for Tender No. **SKI1208P11/08**.. The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

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

**Section 1 - Commitments of the Principal**

- (1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
  2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.
  3. The Principal will exclude from the process all known prejudiced persons.
- (2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a Page 2 of 6 substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

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

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

## **Section 3 - Disqualification from tender process and exclusion from future Contracts**

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

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

2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
1. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

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

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to 3 % of the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.
2. If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.
3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

#### **Section 5 - Previous transgression**

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

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

1. The Bidder/Contractor undertakes to demand from all subcontractors a commitment in conformity with this Integrity Pact, and to submit it to the Principal before contract signing.
2. The Principal will enter into agreements with identical conditions as this one with all Bidders, Contractors and Subcontractors.

3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

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

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

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

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

against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8. The word 'Monitor' would include both singular and plural.

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

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

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

### **Section 10 - Other provisions**

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

BALEN BHARALI  
SR PURCHASE OFFICER

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For the Principal

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For the Bidder/Contractor

Place. Kolkata.

Witness 1 : .....

Date .16.03.2011 .

Witness 2 : .....

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

**OIL INDIA LIMITED invites indigenous competitive bid through its e-procurement portal – <https://etender.srm.oilindia.in/sap/bc/gui/sap/its/bbpstart/>, for the following e-Tenders :-**

Srl. No.	E-tender No. (BID CLOSING DATE)	Material Description	Single Order Value in (₹ Lakhs)	Annual Turn Over (₹ Lakhs)
1.	SKI 1043P11/08 06.05.2011.	Formation Water Disposal Pump. Capacity 25KL/Hr.	10.50	21.00
2.	SKI 1014P11/08 06.05.2011.	Formation Water Disposal Pump. Capacity 50M <sup>3</sup> /Hr	15.00	30.00
3.	SKI 1096P11/09 06.05.2011.	Slit Lamp with Video Attachment	7.50	15.00
4.	SKI 1095P11/09 06.05.2011.	HPCL System for Hemoglobin Testing	8.50	17.00
5.	SKI 1011P11/02 20.05.2011.	Fully Electronic Weigh Bridge for LPG Plant Capacity: 60 MT	9.00	18.00
6.	SKI 1010P11/04 20.05.2011.	Telescopic Conveyor for LPG Plant	12.50	25.00
7.	SKI 1042P11/09 06.05.2011.	Safety Relief Valve	7.50	15.00
8.	SKI 1208P11/08 06.05.2011	Screw Pump (under Single Stage 2 Bid System)	26.50	53.00

**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 only between 22.03.2011 and one week prior to the bid closing date. The envelope containing the application for participation should clearly indicate **“Request for participation”** for easy identification and timely issue of authorisation. On receipt of requisite tender fee and subject to fulfillment 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.**

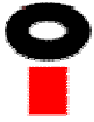
**3.0** To be eligible for issue of **USER-ID** and **Password**, the applicant must meet the following qualifying criteria (documentary evidence to be provided) :

(i) Successful execution of a single order of value not less than the amount shown above for supply of similar item during last five years.

(ii) Annual turnover of the firm in any of the last three financial years or current financial year should be more than the amount shown above.

**4.0** Bidders may visit OIL’s website [www.oil-india.com](http://www.oil-india.com) for further details on the above tenders and details of NIT can be viewed using “Guest Login” provided in the e-procurement portal.

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**OIL INDIA LIMITED**  
(A Government of India Enterprise)  
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Kolkata 700001,  
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**ANNEXURE-II**

Tender No& Date : SKI1208P11/08 DATED 02.03.2011

Tender Fee : 1000.00 INR

Bid Security Amount : 1,06,000.00 INR

Bidding Type : **SINGLE STAGE TWO BID SYSTEM**

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

**OIL INDIA LIMITED invites Global tenders for items detailed below:**

**TECHNICAL SPECIFICATIONS WITH QUANTITY**

SLNO & MATERIAL CODE NO	MATERIAL DESCRIPTION	QUANTITY	UNIT
10 ----- 0C000451	<b><u>FLP ELECTRIC MOTOR DRIVEN POSITIVE DISPLACEMENT SCREW PUMP FOR FORMATION WATER DISPOSAL AT CENTRAL TANK FARM, DULIAJAN</u></b>  For details specification please refer below <b><u>Annexure I</u></b> :-	2	NO.
20	<b><u>INSTALLATION &amp; COMMISSIONING</u></b> For details please refer note no.10 of below <b><u>Annexure I</u></b>	1	AU.

# Annexure I

## FLP ELECTRIC MOTOR DRIVEN POSITIVE DISPLACEMENT SCREW PUMP FOR FORMATION WATER DISPOSAL AT CENTRAL TANK FARM, DULIAJAN

### **1.0 PUMP:**

- 1.1 Type : Positive Displacement Screw Pump  
(progressive cavity pump.)
- 1.2 Service: Continuous  
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.
- 1.3 Capacity: 35 to 40 KILO LITRE PER HOUR
- 1.4 Working Pressure: 25 kg/Sq.cm
- 1.5 Recommended Power (KW) : 50 KW (60 HP)
- 1.6 Mechanical Efficiency : 65.00 %
- 1.7 Volumetric Efficiency : 75-80%
- 1.8 Suction Condition: Negative Suction (2 MWC)
- 1.9 Pumping Temperature: 70-100 Deg C
- 1.10 NPSH( R)( Mts.): 3.00 MWC
- 1.11 Liquid to be handled: Formation Water
- 1.12 Construction Features:
  - Pump Casing - SS Duplex
  - Bearing Housing – Cast Iron IS 210 FG 220
  - Stator - Hi Nitrile Black/ Hypalon
  - Rotor- SS Duplex
  - Shaft - SS Duplex
  - Universal Joint : "Cardan Type" Universal Joint
  - Stator Entry - Tapered entry
  - Stuffing Box- Externally mounted
- 1.13 Suction Size : 200 mm
- 1.14 Delivery Size : 150 mm
- 1.15 Type of Drive : Direct drive through Gear Box & FLP Electric Motor.
- 1.16 The pump should be suitable for running in both the direction for flushing the pump .
- 1.17 Provision and supply of limit switch device at the suction side & a pressure switch at the discharge side of the pump to prevent the pump from dry running.

1.18 RELIEF VALVE: A suitable full flow type pressure relief valve shall be mounted on discharge line of the pump suitable for a working pressure of 25.0 Kg/cm<sup>2</sup> and a set pressure of 30.0 Kg/cm<sup>2</sup> with reputed make of relief valve.

1.19 Liquid to be handled :

The pumping unit should be suitable for pumping Formation Water. Recent Test report of a typical sample is provided to assist the selection process :

PH	: 7.2 to 8.5
Dissolved salt content	: 5000 ppm Max
Iron content	: 1 to 7 ppm
Calcium content	: 3 to 128 ppm
Suspended solids	: 1 to 400 ppm
Sulphur content	: Traces
Oxygen content	: 8 ppm Maximum
Oil content	: 50 to 5000 ppm
Temperature of Formation Water	: 90 Deg C Max
Specific Gravity	: 0.9875
Climatic conditions	: Altitude – 150 meter above sea level Temperature – 45 Deg C Max Average Rainfall - 350 cms Relative Humidity – At 21 Deg C : 100 % At 35 Deg C : 95 % At 40 Deg C : 70 %

**2.0 PRIME MOVER:**

Three phase Induction Motor shall be used as prime mover for the pump. Motor shall have the following specifications.

Type	The motor shall be 3- phase, FLAMEPROOF type, squirrel cage rotor Induction Motor, suitable for installation in Zone-1, Zone-2 Hazardous Area, Gas Group IIA and IIB, of Oil Mine. The motor shall be certified by Central Mining Research Institute (CMRI), Dhanbad, India and approved by Director General of Mines Safety (DGMS), Dhanbad, India for FLP construction and use in above area.
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Rated output	The motor rating shall be minimum 10% higher than the respective absorbed power required for full rated capacity load handling.
Enclosure	TEFC, FLP with Degree of protection - IP55. CI/ MS enclosure painted with Epoxy based DA Grey Paint.
Insulation	Vacuum pressure impregnated. Class F with temperature rise limited to that of class B
Standards	IS-2148, 325, 4691
Voltage	Motor shall be suitable for $415 \pm 6\%$ volts, 3 Phase, 50HZ, AC supply and should withstand high voltage fluctuation.
Freq.	50 Hz +- 3%
RPM	To match driven equipment
Duty	Continuous (S1)
Mounting	As per equipment design.
Shaft support	Rolling element Bearings at DE and NDE
Cooling	Bidirectional cooling fan at NDE
Starting	DOL for motors up to 12.5 HP; Y/D for motor above 12.5 HP
Switching	15 Cold Starts /Hr.
Ambient	Max. 40°C, Min 6°C, 95% RH, Altitude-150 Mtr
Terminal Box	FLP Cable termination box with brought out terminals suitable for terminating PVCA aluminium cables of proper size as per rating of motor. Terminal shall be of brass with non-hygroscopic insulation support (FRP or DMC) suitable for tropical climate. Suitable termination arrangement shall also be provided in case the heater is installed. Cable box shall have two nos. of cable entries in case of motor above 10 hp and one no. cable entry in case of motor upto 10 hp. Cable entry thread ET type.
Glands	FLP double compression, Nickel plated brass glands, approved by CMRI as per cable size shall be fitted in all the cable entries in terminal box of the motor. Make of Gland: Baliga, GMI, Dowells.
Earthing	Two nos of earthing studs to be provided on both sides of the motor. Earthing system for the motor shall be as per the IS: 3043.
Lifting Eye	Lifting hook(s) shall be provided for lifting the motor.
Markings	Name plate details with name of manufacturer, frame size, rated voltage, rated out put, current, frequency, type of duty, class of insulation, no. of phases, speed in rpm at rated out put, degree of protection, winding connections, amb. temp, bearing sizes, lubricant, lubrication material and year of manufacture, CMRI certification no, DGMS approval No, Gas Group
Certificates	Test certificate of Motor for routine tests done at manufacturer's works shall be submitted with the supply.
Guarantee	Motor shall be guaranteed for one year. Guarantee certificate shall be submitted with the supply.
Make	Bharat Bijlee/ Crompton Greaves/ KEC/ Siemens/NGEF.
Preferred ratings in HP	0.5, 1.0, 1.5, 2.0, 3.0, 5.0, 7.5, 10.0, 12.5, 15, 20, 25, 30, 40, 50, 60, 75, 100, 125, 150, 175, 200
General Notes	<b>1.</b> DGMS approval no. & mark should be fixed on the motor

on motor	<p>body as per guidelines mentioned in the DGMS approval.</p> <ol style="list-style-type: none"><li>2. <b>The FLP motor and the FLP gland(s) must be suitable for installation in Hazardous Area Zone 1 area, Gas Group IIA and IIB, of Oil Mine. These must be certified by Central Mining Research Institute (CMRI), Dhanbad, India and approved by Director General of Mines Safety (DGMS) Dhanbad, India for FLP construction and use in above area.</b> Copies of CMRI certification and DGMS approval for the motor as well as the glands must be furnished with the offer.</li><li>3. Frame size &amp; make of the offered motor should be mentioned in the offer.</li><li>4. Copy of the drawing of the offered FLP Motor enclosure showing terminal box &amp; cable entry arrangement with double compression FLP cable gland should be submitted with the offer for scrutiny by HEAD (Electrical).</li><li>5. All unused cable entries holes must be plugged with CMRI certified FLP sealing plugs made of cast iron.</li><li>6. Packing should be suitable for transit damage &amp; protection against tropical rains.</li><li>7. Bidder must categorically mention that their offer complies with all the features mentioned in the Motor specification &amp; all the relevant documents required as per above points are enclosed in their offer.</li></ol>
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## 2.2 General Notes on motor:

1. Motor shall be tested as per BIS and test certificates shall be furnished with the supply.
2. The FLP motor and the FLP gland(s) must be suitable for installation in Zone 1 area and Group IIA and IIB type gas. These must be certified by Govt. of India, Central Mining Research Institute, Dhanbad, India (CMRI) and The FLP motor MUST BE approved by Govt. of India, Director General of Mines Safety (DGMS). Copies of CMRI certification for the motor as well as the glands and valid DGMS APPROVAL for the motor must be furnished with the offer. Without these documents the offer shall NOT be considered for evaluation.
3. The motor(s) shall be guaranteed for 1 (one) year from the date of supply. Guarantee cards shall be duly signed and stamped by the supplier and shall be provided along with the supply.

## 2.3 Documents:

1. Bidder shall furnish every detail of the electrical items in their offer as per the above specifications IN THE SAME ORDER. All of the above shall form part of the order. Hence any deviations must be clearly mentioned which shall be securitized for acceptability. Specific

type and make of components should be mentioned clearly. No deviation shall be allowed at the time of supply and in such case the order will be cancelled without any liability to OIL. In case of such cancellation oil may recover from the bidder the cost incurred by oil in processing the tender till the time of cancellation.

2. All electrical items shall be procured from OEM or their authorized dealers only. In case of dealers copies of valid dealership certificates shall be furnished with the offer without which the offers shall not be considered for evaluation.
3. The following documents shall be submitted with the offer
  - GA and dimensional drawing of all electrical equipment.
  - Technical details of the Motor.
  - Copies of CMRI certificates and valid DGMS approvals.
4. Four bound sets of the following documents, shall be submitted with the supply
  - Approved GA and dimensional drawing of all equipment.
  - Technical details of the Motor.
  - Copies of CMRI certificates and valid DGMS approvals for flameproof items.
  - List of recommended spares for two years.
  - All test certificates.
  - Guarantee Certificates

#### 2.4 Transportation:

During transportation all electrical equipment are to be suitably packed to avoid water ingress and transit damage.

### **3.0 DRIVE ARRANGEMENT:**

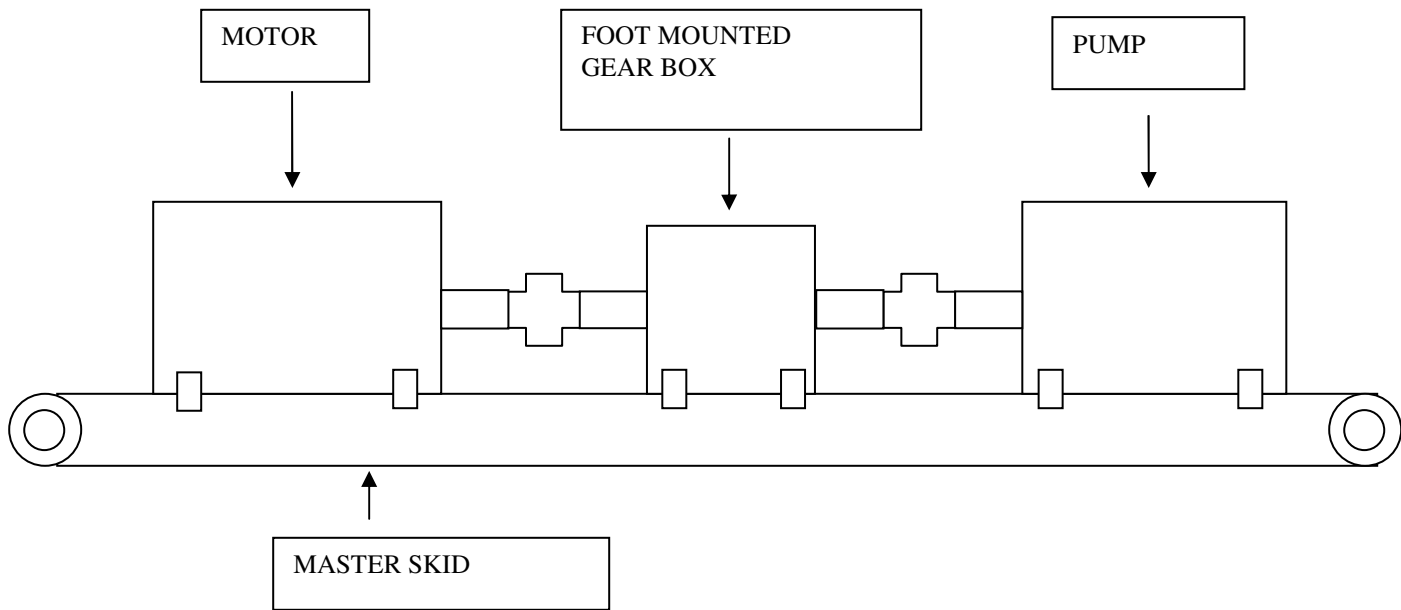
Drive from Motor to pump shall be provided thru a suitable Gear Box of REPUTED MAKE, parallel shaft speed reducer with a gear rated to designed HP from the electric motor at about 1500 rated RPM to the pump at desired RPM, with a suitable Gear ratio.

The Pump is to be unitized with the Motor and drive arrangement on structural steel 3 runner Oilfield Skid suitable for loading on self loading trucks. The package shall be complete with Motor adjusting base, lifting eyes, tool box etc. Interconnection piping spools on suction and discharge should be provided with appropriate bolting, gaskets and pipe components (valves, brackets, etc) mounted on the skid and terminated at skid edge.

The drive arrangement will involve the following mechanisms:

The speed reduction from the ELECTRIC MOTOR at its rated rpm to the desired rpm of the pump shall be effected by means of a separate external foot mounted gear box installed between the Motor and the pump.

Flow of Electric Motor power through the input shaft of an external foot mounted gearbox and finally to the input shaft of the pump. Suitably selected coupling should be incorporated to transfer power from the Electric Motor to the pump through the transmission Gear Box.



NOTE :

The gear box should be of reputed manufacturer ( SANTI / GREAVES ), a parallel shaft , helical gear unit. The unit design should preferably include a cast iron housing , helical gear elements, anti friction roller bearings on all shafts and a self-contained splash lubricating system .

All rotating parts should be covered by suitable guards. Guards should be provided over couplings used as part of the transmission train. Provision of guards over couplings has become mandatory as per recommendations of OISD & DGMS bodies.

#### **4.0 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. . The size of the skid should be rigid to withstand vibration of the unit and large enough to provide sufficient working space around the pump set. The skid should be suitable for self loading purpose.

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 checkered 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.

#### **5.0 CERTIFICATES & DOCUMENTS TO BE FORWARDED:**

- I. The following documents should be forwarded along with the quotations:
- i. Product line catalogue, specifying materials of construction and constructional features of the offered pump and technical literatures of all ancillary equipment.
  - ii. Performance chart of the pump including all technical calculations such as horse power, volumetric efficiency, mechanical efficiency, RPM, NPSH requirement, etc.
  - iii. Technical calculation for offering the electric motor with respect to the pump offered.
  - iv. Complete technical details of pumps, electric motor, coupling etc.
  - v. A schematic layout of the master skid showing the electric motor, pump and all other components of the pump set.
  - vi. A declaration from the supplier that the spare parts will be available with them for any emergency purchase or regular consumption of spares for at least 10(Ten) years after placing the formal order.
  - vii. For foundation design during installation of the complete pump-set, the following information are to be supplied:-
    - a) Dynamic load
    - b) Static load
    - c) Unbalanced load

II. The following documents shall have to be forwarded within a month of issue of LOI or placement of firm order

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

III. 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 etc.
- v. operation and maintenance manuals , parts lists of pump, motor and all other accessory equipment.

6.0 SPARE PARTS :

Spares for 2(Two) years normal operation of the electric motor, pump and its accessories should be included in the offer. Bidder should indicate the manufacturers' Part Nos for each part of pump, electric motor and its accessories along with the suppliers' own Part No., if any.

Bidders have to provide the price along with the part numbers of the spares that they envisage shall be required for maintenance of the pump set for 2(Two) years . **The prices of these spares shall be considered during commercial evaluation of the offer**

### **SPARE PARTS AND SPECIAL TOOLS :**

a. Bidders have to provide the price , along with the part numbers , of the following spares that we envisage shall be required for maintenance of the pump set for two years . The prices of these spares shall be considered during commercial evaluation of the offer.

b. The following special tools should be included [ one set against each pump set] in the scope of supply , as commissioning spares . **The prices of these spares shall be considered during commercial evaluation of the offer.**

- i. A set of each type and size of coupling installed in the pump set
- ii. Special wrenches for tightening stuffing box glands, studs etc.

### **7.0 INSPECTION & TESTS :**

a) The plant and materials may be subjected to inspection during manufacture at the purchaser's discretion, but such inspection shall not relieve the supplier of his responsibility to ensure that the equipment supplied is free from all manufacturing and other defects and conform to correct specifications. The supplier will be notified in advance, if it is intended to inspect plant & materials.

b) Except where otherwise agreed the test called for in this specification shall be carried out in the presence of the purchaser or his representative appointed for the purpose and to his satisfaction. All appliances, apparatus, labor etc. necessary for the test shall be provided by the supplier at his cost.

c) Pre dispatch inspection will be carried out by us at the works of the manufacturer . The complete unit mounted on the skid would be inspected by our engineer. The unit would be load tested at rated pressure and capacity at supplier's factory before dispatch. Accordingly supplier should inform us well in advance. All tests are to be performed as per ISO: 10000 quality products.

### **8.0 MATERIAL TESTS, CERTIFICATES :**

The supplier shall submit for approval, particulars of all test pieces proposed to be taken from the castings or forging subjected to high pressure and also of highly stressed parts. The purchaser will state whether he intends to witness the tests on such pieces or is prepared to accept the supplier's test certificates.

Hydraulic tests : Before being dispatched from the suppliers' works all castings/forging and valve shall be hydraulically tested to at least twice their normal working pressure for a period of 30 minutes and certificate thereof should be made available to the purchaser.

#### 9.0 PACKING, PAINTING AND PROTECTION :

Packing shall be sufficiently robust to withstand rough handling during shipment and up country journey. 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.

Internal parts shall be sprayed with an inhibitor water splitting preservative and all openings shall be covered with masking tape to prevent ingress of water.

#### 10.0 INSTALLATION & COMMISSIONING :

Installation and Commissioning of the Pump set 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 pump sets. OIL will provide necessary statutory permits 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 and on satisfactory performance shall be subsequently handed over to OIL.

#### 11.0 AFTER SALES SERVICE:

The nature of after sales services, which can be provided by the supplier during initial commissioning as also in subsequent operation should be clearly stated. It should be confirmed that spares for the engine/pump and its accessories offered would be available for at least 10 years after delivery of the material.

#### 12.0 BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC) :

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

##### **A:TECHNICAL**

The bids must conform to the specifications and terms and conditions given in the tender. 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) The bidder should be an OEM of pump
  - b) The Bidder other than OEM must be an authorized dealer of OEM of pump. If the bidder is an authorized dealer of pump, necessary documentary certificates from the OEM must be submitted along with the offer. The purchase documents from the OEM must be submitted along with the supply of pump sets. The bidder must furnish the following undertaking from the OEM:-  
“Date of manufacture, make, model, test certificate, literatures and part books of the pump will be supplied if order is placed on us”
  - c) The bidder must purchase the Electric motor from the OEM or authorized dealer of Electric motor. Necessary documentary certificates from the OEM or authorized dealer of Electric motor must be submitted along with the offer. The purchase documents from the OEM or the authorized dealer must be submitted along with the supply of pump sets. The bidder must furnish the following undertaking from the OEM or authorized dealer -  
“Date of manufacture, make, model, test certificate, literatures and part books of the Electric motor will be supplied if order is placed on us”
  - d) Bidder or their principal should successfully completing 1 (One) order in the last 5 (Five) years before the bid closing date of this enquiry against supply, installation, commissioning and testing of similar capacity Pump in PSUs, Central Govt. Undertakings, Public Limited 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. Documentary evidence must be provided along with the quotation stating the following information
    - i) Capacity of each supplied pump set
    - ii) The name of clients to whom these pump sets are supplied and with certificates that these are running satisfactorily at the time of submission of the offer.Otherwise, the offer will be rejected.
  - e) The bidder must have after sales service facility and must submit bases of service center with list of service personals to attend the equipment in case of breakdown, provision of supply of spares etc.
  - f) The bidder must undertake the equipment to be supplied are not obsolete for next 10 years and provision for supplying spares of the equipment to be continued.
- The bidder who are not submitting the above information will be rejected and no further correspondence will be made.

## **B:COMMERCIAL**

- i). Bids are invited under “**Single Stage Two Bid System**”. Bidders have to submit both the “**Technical Bids**” and “**Commercial Bids** through electronic form in the OIL’s e-Tender portal within the bid Closing date and time stipulated in the e-tender. The Technical bid is to be submitted as per scope of works and Technical specification of the tender and the commercial bid as per the online Commercial bid format. For details of submission procedure, please refer relevant para of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. **Any offer not complying with the above shall be rejected straightway.**
- ii). Commercial bids of only those bidders will be opened whose offers are found technically acceptable. The technically acceptable bidders will be informed before opening of the "commercial bid".

- iii). Bid security of Rs 1,06,000.00 shall be submitted manually in sealed envelope superscribed with BID SECURITY AGAINST Tender no..... and Bid Closing date... **Head Calcutta Branch, Oil India Limited,4 , India Exchange Place , Kolkata-700001** on or before the Bid Closing Date and Time mentioned in the Tender. **If bid security in ORIGINAL of above mentioned amount is not received within bid closing date , the bid submitted through electronic form will be rejected without any further consideration.** 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 date of bid opening.**
- 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.**
- 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). **C folder is meant for Technical bid only. Therefore, No price should be given in C folder, otherwise the offer will be rejected.**
- xii). Price should be maintained in the “online price schedule” only. The price submitted other than the “online price schedule” shall not be considered.

xiii). **Integrity Pact :**

**OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **Annexure III** 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.

13.0 PERFORMANCE GUARANTEE:

10% of the ordered value shall be given as performance guarantee in the form of bank guarantee for a period of 12 months after commissioning or 18 months from the date of dispatch. The bank guarantee will be released after successful completion of warranty period.

14.0 Bidder must fill up the Data Sheet (for both pump & Motor) and also fill up the technical check list as mentioned below for evaluation of their offer.

DATA SHEET:

A. DATA SHEET (PUMP)

MAKE	
MODEL	
PUMP TYPE	
SERVICE	
LIQUID HANDLED	
OFFERED RATED SPEED	
OFFERED RATED PRESSURE	
DISCHARGE VOLUME@OFFERED SPEED (Vol Effi = 75%)	
APPROX HP REQUIREMENT AS PER NIT PARAMETERS	
NPSH REQUIRED	
PUMPING TEMPERATURE	
LUBRICATION	
TYPE OF DRIVE ARRANGEMENT	
COUPLING TYPE , IF APPLICABLE	

B. DATA SHEET ( MOTOR )

MAKE	
MODEL	
TYPE	
RATED SPEED	
REFERENCE OF STANDARDS	
MOTOR RATING (KW)	

NUMBER OF PHASES	
TYPE OF ENCLOSURE	
POWER INPUT TO PUMP AT DUTY POINT (KW)	
METHOD OF STARTING	
BEARING TYPE AT POWER END	
BEARING TYPE AT NON-DRIVE END	
METHOD OF COOLING	
DUTY	
TYPE OF CONSTRUCTION	
CLASS OF INSULATION	
UNIDIRECTIONAL OR BIDIRECTIONAL ROTATION	
SYSTEM OF EARTHING	

**15.0 TECHNICAL CHECK LIST :**

1.	Whether quoted as OEM of Pump and whether documentary evidences submitted ?	YES/NO
2.	Whether quoted as authorised dealer of Pump and whether documentary evidences submitted ?	YES/NO
3.	Whether quoted as OEM recommended assembler of Pump sets and whether documentary evidences submitted ?	YES/NO
4.	Whether the offered Pump is as per NIT ?	YES/NO
5.	Whether the Pump is designed for continuous service duty ?	YES/NO
6.	Whether the offered Motor conforms to IS Standard with latest amendment as per specifications ?	YES/NO
7.	Whether the power for normal working condition is as per NIT ?	YES/NO
8.	Whether the motor meets NIT criteria ?	YES/NO
9.	Whether the pump is having Capacity & Pressure as per NIT ?	YES/NO
10.	Whether the pump meets materials of construction as per NIT ?	YES/NO
11.	Whether the floor of the three runner skid shall be covered by checkered plates ?	YES/NO
12.	Whether the skid is rigid enough to withstand vibration of the unit and suitable for self loading purpose ?	YES/NO
13.	Whether the two years spares for the packages indicated have been quoted ?	YES/NO
14.	Whether special tools and commissioning spares have been included in the scope of supply ?	YES/NO
15.	Whether spares shall be available for 10 years after supply of equipment?	YES/NO
16.	Whether separately highlighted any deviation from the technical specifications ?	YES/NO
17.	Whether the Pre-dispatch inspection of the Pump packages shall include Full Load Performance test of the Pump Sets ?	YES/NO

Order Ref -----

Dated-----

OIL's Tender No.-----

Signed-----

For & behalf of -----

Designation-----

16.0 Payment:- 70% payment shall be made after receipt of materials and rest 30% payment shall be made after successful installation and commissioning of the same. Bidders to confirm the same in their quotation.

**AA. Standard Notes:**

1) The tender is invited under **SINGLE STAGE-TWO BID SYSTEM**. The bidder has to submit both the "TECHNICAL" and "COMMERCIAL" bid through electronic form in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender. The Technical Bid is to be submitted as per Scope of Work & Technical Specification of the tender and Commercial bid as per the **Online Commercial Bid format**.

2) In Technical Bid opening, only Collaboration Folder ( C folder ) will be opened. Therefore, the bidder should ensure that Technical bid is uploaded in the c-Folder link (collaboration link) under Un-priced Bid Tab Page only. **No price should be given in above C folder, otherwise the offer will be rejected**. Please go through the help document in detail before uploading the document.

3) 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 of the technical bid. **Bid without original Bid Security will be rejected**. The bidders who are exempted from submitting the Bid Bond should attach documentary evidence in the Collaboration folder as per clause 8.8 of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders. **The Bid Security shall be valid for six months from the date of bid opening**.

**4) COMMERCIAL BIDS OF ONLY THOSE BIDDERS WILL BE OPENED WHOSE OFFERS ARE FOUND TO BE TECHNICALLY ACCEPTABLE.**

5) OIL reserves the right to allow Small Scale Sectors registered with NSIC purchase preference facility as admissible as per existing Government Policy. The bidders are requested to check the latest position on the subject on their own and OIL does not accept any liability whatsoever, on this account.

6) 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 deadline given by the company, failing which the offer will be summarily rejected.

**7) Price should be maintained in the “online price schedule” only. The price quoted in the “online price schedule” will only be considered.**

**8) 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 rejected.**

**9.) Offers should be valid for minimum 120 days from the date of Technical Bid closing Date, failing which offer shall be rejected.**

**10) Integrity Pact is applicable against this tender. Therefore, please attach the Integrity Pact document duly signed along with your quotation as per BRC.** The name of the OIL’s Independent External Monitors at present are as under :

**(A) SHRI N. GOPALASWAMI, I.A.S ( Retd) ,  
Former Chief Election Commissioner of India  
E-mail Id : gopalaswamin@gmail.com**

**(B) SHRI RAMESH CHANDRA AGARWAL , IPS( Retd)  
Former Director General of Police  
E-mail Id : rcagarwal@rediffmail.com**

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