

## Bid Document

Bid Details	
<b>Bid End Date/Time</b>	15-12-2021 14:00:00
<b>Bid Opening Date/Time</b>	15-12-2021 14:30:00
<b>Bid Life Cycle (From Publish Date)</b>	90 (Days)
<b>Bid Offer Validity (From End Date)</b>	60 (Days)
<b>Ministry/State Name</b>	Ministry Of Petroleum And Natural Gas
<b>Department Name</b>	Oil India Limited
<b>Organisation Name</b>	Oil India Limited
<b>Office Name</b>	Oil India Limited
<b>Total Quantity</b>	1
<b>Item Category</b>	Gas Engine Driven Horizontal Piston Type Reciprocating Pump (Q3) ( )
<b>MSE Exemption for Years of Experience and Turnover</b>	No
<b>Startup Exemption for Years of Experience and Turnover</b>	No
<b>Document required from seller</b>	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
<b>Bid to RA enabled</b>	No
<b>Time allowed for Technical Clarifications during technical evaluation</b>	5 Days
<b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	Yes
<b>Inspection to be carried out by Buyers own empanelled agency</b>	Yes
<b>Type Of Inspection</b>	Pre Dispatch
<b>Name of the Empanelled Inspection Agency/ Authority</b>	Board of Officers
<b>Payment Timelines</b>	Payments shall be made to the Seller within <b>30</b> days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)

Bid Details	
Evaluation Method	Total value wise evaluation

#### EMD Detail

Required	No
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#### ePBG Detail

Advisory Bank	HDFC Bank
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	21

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

#### Beneficiary:

GM- MATERIALS (HOD)

Note: OIL has made arrangement for online confirmation of Bank Guarantee through SFMS Platform with HDFC Bank, Duliajan Branch. Therefore, bidders submitting Performance Security in the form of Bank Guarantee must route the BG through SFMS platform as per following details – a. The Bank Guarantee issued by the Bank must be routed through SFMS platform as per following details: (i) MT 760 / MT 760 COV for issuance of Bank Guarantee (ii) MT 760 / MT 767 COV for amendment of Bank Guarantee The above message / intimation shall be sent through SFMS by the BG issuing Bank branch to HDFC Bank, Duliajan Branch, IFS Code – HDFC0002118; SWIFT Code - HDFCINBBCAL. Branch Address: HDFC Bank Limited, Duliajan Branch, Utopia Complex, BOC Gate, Jayanagar, Duliajan, Dibrugarh, PIN – 786602. b. The vendor shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee. Bank Guarantee issued by a Scheduled Bank in India at the request of some other Non-Scheduled Bank in India shall not be acceptable.

(G C Sarma)

#### Splitting

Bid splitting not applied.

#### MII Purchase Preference

MII Purchase Preference	Yes
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#### MSE Purchase Preference

MSE Purchase Preference	Yes
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1. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company

and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY.

### **3. Inspection of Stores by Nominated Inspection Authority / Agency of buyer or their authorized representatives**

An independent third party Professional Inspection Body can help buyer in mitigating buyer's risk with pre-dispatch/post-dispatch inspection in order to ensure that equipment, components, solutions and documentation conform to contractual requirements. The buyer has a right to inspect goods in reasonable manner and within reasonable time at any reasonable place as indicated in contract. Inspection Fee/ Charges (as pre-greed between buyer and Inspection Agency) would be borne by the buyer as per their internal arrangement but may be recovered from the seller if the consignment failed to conform to contractual specification and got rejected by the Inspection Officer .If so requested and accepted by the seller , initially seller may pay for inspection charges as applicable and get the same reimbursed from buyer if consignment accepted by the Inspecting Officer . For reimbursement seller has to submit proof of payment to Inspection Agency.

Seller/OEM shall send a notice in writing / e-mail to the Inspecting officer / inspection agency specifying the place of inspection as per contract and the Inspecting officer shall on receipt of such notice notify to the seller the date and time when the stores would be inspected. The seller shall, at his own expenses, afford to the Inspecting officer, all reasonable facilities as may be necessary for satisfying himself that the stores are being and or have been manufactured in accordance with the technical particulars governing the supply. The decision of the purchaser representative /inspection authority regarding acceptance / rejection of consignment shall be final and binding on the seller.

The Seller shall provide, without any extra charge, all materials, tools, labour and assistance of every kind which the Inspecting officer may demand of him for any test, and examination, other than special or independent test, which he shall require to be made on the seller's premises and the seller shall bear and pay all costs attendant thereon.

The seller shall also provide and deliver store / sample from consignment under inspection free of charge at any such place other than his premises as the Inspecting officer may specify for acceptance tests for which seller/OEM does not have the facilities or for special/ independent tests.

In the event of rejection of stores or any part thereof by the Inspecting officer basis testing outside owing to lack of test facility at sellers premises, the seller shall, on demand, pay to the buyer the costs incurred in the inspection and/or test. Cost of test shall be assessed at the rate charged by the Laboratory to private persons for similar work.

Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may like fit and proper as per QAP/governing specification. The seller shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspecting officer.

Unless otherwise provided for in the contract, the quantity of the stores or materials expended in test will be borne by seller.

Inspecting officer is the Final Authority to Certify Performance / accept the consignment. The Inspecting officer's decision as regards the rejection shall be final and binding on the seller.

The seller shall if so required at his own expense shall mark or permit the Inspecting officer to mark all the approved stores with a recognised Government or purchaser's mark.

## Gas Engine Driven Horizontal Piston Type Reciprocating Pump ( 1 pieces )

(Minimum 50% Local content required for MII compliance)

Brand Type	Unbranded
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### Technical Specifications

Buyer Specification Document	<a href="#">Download</a>
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### Installation Commissioning and Testing (ICT) details for the above item:

% of Product Cost Payable on Product Delivery	70%
Min Cost Allocation for ICT as a % of product cost	1%
Number of days allowed for ICT after site readiness communication to seller	45 Days

### Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Krishna Mohan Kumar	786602,Oil India Limited, Duliajan, Assam	1	180

### Buyer added Bid Specific Additional Scope of Work

S.No.	Document Title	Description	Applicable i.r.o. Items
1	Technical Specification & BRC <a href="#">View</a>	Technical Specification & BRC	Gas Engine Driven Horizontal Piston Type Reciprocating Pump(1)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

## Buyer Added Bid Specific Terms and Conditions

### 1. Generic

**Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

## 2. **Generic**

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

## 3. **Generic**

Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)

## 4. **Generic**

**OPTION CLAUSE:** The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

## 5. **Generic**

Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.

## 6. **Generic**

The buyer organization is an institution eligible for concessional rates of GST as notified by the Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.

Applicable Concessional rate of GST : 5%

Notification No.and date : 3/2017 dated 28/06/2017

## 7. **Generic**

**Upload Manufacturer authorization:** Wherever Authorised Distributors are submitting the bid, Manufacturers Authorisation Form (MAF)/Certificate with OEM details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid.

## 8. **Generic**

While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.

## 9. **Generic**

Wherever Essentiality Certificate is applicable (PEL/ML), successful bidder should provide Proforma Invoice for processing for EC application and material should be dispatched after receiving of EC from DGH. In view of the same, an ATC may be incorporated in GeM, viz, "BIDDER/OEM must provide Proforma Invoice for processing for EC application within 135 days from date of issue of GeM Contract and material should be dispatched after receiving of EC from DGH."

## 10. **Scope of Supply**

Scope of supply (Bid price to include all cost components) : Supply Installation Testing and Commissioning of Goods

#### 11. **Purchase Preference (Centre)**

Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 100% of total value.

#### 12. **Purchase Preference (Centre)**

Purchase Preference linked with Local Content (PP-LC) Policy:

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

- i. In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
- ii. Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
- iii. The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

#### 13. **Warranty**

Warranty period of the supplied products shall be 1 years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. OEM Warranty certificates must be submitted by Successful Bidder at the time of delivery of Goods. The seller should guarantee the rectification of goods in case of any break down during the guarantee period. Seller should have well established Installation, Commissioning, Training, Troubleshooting and Maintenance Service group in INDIA for attending the after sales service. Details of Service Centres near consignee destinations are to be uploaded along with the bid.

## **Disclaimer**

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid.

Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions.](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---Thank You---**



## ANNEXURE - I

### TECHNICAL SPECIFICATION

DESCRIPTION	SPECIFICATION	
<b>A. BRIEF DESCRIPTION</b>	Gas Engine Driven Horizontal Piston Type Reciprocating Pump for Mud Circulation Purpose.	
<b>B. QUANTITY</b>	<b>01 (One) No.</b>	
<b>C. NOTE TO BIDDERS</b>	<p>1. Bidders are to submit their offer(Technical) by duly filling up the relevant column of the following document of the tender –</p> <p>(i) Annexure – III - Data Sheet. (ii) Annexure – IV - Technical Checklist (iii) Annexure – VII - Bid Evaluation Matrix (Technical Specification) (iv) Annexure – VIII - Bid Evaluation Matrix (BEC/BRC)</p> <p>2. All the Annexures / Attachments are to be suitably marked and a list of the same to be submitted alongwith the offer.</p>	
<b>D. PUMP</b>	<b>1. Pump Type</b>	Horizontal Piston type Reciprocating Pump.
	<b>2. Governing Standards</b>	API – 674
	<b>3. Duty</b>	Continuous Duty <b>Note:</b> “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 .
	<b>4. Rated Capacity</b>	90 KLPH to 100 KLPH
	<b>5. Rated Discharge Pressure</b>	20 Kg/cm <sup>2</sup> (minimum)
	<b>6. Suction Condition</b>	4(four) Meters Negative Suction <b>(NB: Charge pump / booster pump should not be used to meet the negative suction conditions)</b>
	<b>6.1 Liquid to be Handled</b>	The pumping unit should be suitable for pumping fresh water or following corrosive salt solutions either single solution or mixture of salt solutions, the characteristics of individual salt solutions are given below: (Bidder to confirm that the offered pump is suitable for pumping of the fluids as mentioned below)
	<p>a) <b>Fresh Water:</b></p> <p>I. pH : 7.3 - 6.3 II. Total dissolved solids(ppm) : 130 - 160 III. Carbon dioxide(ppm) : 0 -30 IV. Carbonate(ppm) : NIL V. Bi-Carbonate(ppm) : 115 - 122 VI. Silica(ppm) : 15 - 45 VII. Sulphate(ppm) : 23 - 2 VIII. Chloride(ppm) : 2 - 1 IX. Calcium(ppm) : 31 - 14 X. Magnesium(ppm) : 3 - 10 XI. Iron(ppm) : 4 -10 XII. Sodium(ppm) : NIL</p>	



DESCRIPTION	SPECIFICATION
	XIII. Potassium(ppm) : NIL
	XIV. Oil content(ppm) : NIL
	XV. Total Suspended Solids(ppm) - NIL
	b) <b>Sodium Chloride Solution:</b>
	I. Density : 72 pcf (max)
	II. Turbidity : 150-200 NTU
	III. pH : 8.5 – 9.5
	IV. Salinity as NaCl : 3,00,000 - 3,50,000 ppm
	V. Carbonate : NIL
	VI. Bicarbonate : 244 - 448 ppm
	c) <b>Sodium Formate (HCOONa) solution:</b>
	I. Density : 80 pcf (max)
	II. Turbidity : 150-200 NTU
	III. pH : 9.0 – 9.5
	IV. Salinity as NaCl : 1000 -1500 ppm
	V. Carbonate : 1000 – 1500 ppm
	VI. Bicarbonate : 100000 – 150000 ppm
	d) <b>High Viscous Polymer Mix:</b>
	I. Density : 80 pcf (max)
	II. pH : 9.0 – 9.5
	III. Salinity as NaCl : 1000-1500 ppm
	IV. Marsh Funnel Viscosity : 100 – 120 sec
	V. AV : 75 cp
	VI. PV : 43 cp
	VII. YP : 64 lbs/100 ft2
	e) <b>Xanthan Polymer Mix:</b>
	I. Density : 80 pcf (max)
	II. pH : 9.0 – 9.5
	III. Salinity as NaCl : 1000 -1500 ppm
	IV. Marsh Funnel Viscosity : 130-150 sec
	V. AV : 107 cp
	VI. PV : 33 cp
	VII. YP : 148 lbs /100 ft2
<b>7. Design Features</b>	The guiding salient points are detailed below:
	(a) <b>Fluid End Features:</b>
	i. Mono Block Fluid End with bolt on type valve covers.
	ii. Suction and Discharge on either side of the fluid end.
	iii. Suction and discharge shall be flanged and suitable for the working pressure as specified.
	iv. Any connection welded on to the fluid cylinder shall have to meet the material requirement of the fluid cylinder rather than the requirements of the connected pipings.
	v. Should be provided with liners and the derrils of the same to be furnished alongwith the offer.
	vi. Surfaces of piston rods & cylinders in contact with packing shall have to hardened or coated or shall have a minimum surface hardness of Rockwell C35. Surface finish shall have to be 16R <sub>a</sub> or better.
	vii. Piston rods, both liquid and drive end, shall be of corrosion resistant material.
	viii. Design of the pistons should match the mentioned service condition.
	ix. Pistons to be fastened and locked with rod and cross head as suitable for the specified service conditions.

DESCRIPTION	SPECIFICATION
	<ul style="list-style-type: none"> <li>x. Interchangeable valve assemblies with replaceable tapered valve seats pressed onto mono block fluid end.</li> <li>xi. <b>Fluid End Lubrication:</b> Piston Lubrication should be achieved through belt driven packing lubricator (drip feed) Pump. NO EMD PUMP SHALL BE USED FOR THIS PURPOSE.</li> <li><b>(b) Power End Features:</b> <ul style="list-style-type: none"> <li>i. The Power end frame shall be a cast enclosure that will house crankshaft, connecting rods, crossheads and bearings.</li> <li>ii. Flooded sump Splash / Lift gravity Lubrication for power end.</li> <li>iii. Crankshaft shall have to be wrought or cast or forged alloy steel in one piece.</li> <li>iv. The crank pin bearings shall be two piece precision type (preferably steel backed, precision type, Aluminum alloy/ Tin &amp; babbitt lined)</li> <li>v. Sealing to be provided at all openings in the power frame to prevent contamination of the power end lubricant.</li> <li>vi. The power end shall have to be provided with a filtered vent and a NPS ¼ (minimum) connection for purging. An accessible drain (NPS ¼ minimum) shall have to be provided at the lowest point of the sump.</li> <li>vii. <b>Power End Lubrication:</b> <ul style="list-style-type: none"> <li>1. The power end lubrication system to be splash or lift gravity type. (Type of lubrications method offered to be indicated.) A sight glass, gauge or oil level dipstick to be provided.</li> <li>2. Bearing oil temperature shall not exceed 70°C (160°F) anywhere in the system.</li> </ul> </li> </ul> </li> </ul>
8. Material of Construction (MoC)	<p>The material of construction (MOC) of following Fluid End and Power End components shall have to be suitable for operating conditions as mentioned in the tender. The bidder shall have to mention in their offer the MOC of the following Fluid end and Power end components of the offered pump with the applicable ASTM, AISI, ASME or SAE numbers, including material grade. When no such designation is available, the bidder's material specification, giving physical properties, chemical compositions, and test requirements, shall be included in the offer. Bidder shall furnish the MoC of the followings in details:</p> <ul style="list-style-type: none"> <li><b>(a) Fluid end components:</b> <ul style="list-style-type: none"> <li>i. Fluid End Block</li> <li>ii. Valve cover/valve</li> <li>iii. Hard coated Pistons</li> <li>iv. Valve seats</li> <li>v. Valve spring</li> </ul> </li> <li><b>(b) Power end components:</b> <ul style="list-style-type: none"> <li>i. Power frame</li> <li>ii. Crank shaft</li> <li>iii. Connecting rod</li> <li>iv. Crosshead</li> <li>v. Crosshead pin</li> <li>vi. Crosshead pin bushing</li> <li>vii. Extension rod</li> <li>viii. Crank pin bearing (two piece)</li> </ul> </li> </ul>

DESCRIPTION	SPECIFICATION
	<p><b>(c) Testing of Materials:</b></p> <p>(i) The bidder shall specify the ASTM optional tests and inspection procedures that may be necessary to ensure that materials are satisfactory for the service. Such test shall have to be mentioned in the bidder's offer. The bidder shall have to submit detail test certificates for the material testing mentioned in their offer prior to pre- dispatch inspection of the pump sets.</p> <p>(ii) The bidder shall have to provide undertaking along with the offer that the offered materials of construction of the pump are suitable for the specified operating conditions <i>(as mentioned in the tender)</i>.</p>
<p><b>9. Name plate and Rotation Arrows</b></p>	<p>(a) A nameplate shall be securely attached at a readily visible location wherein the manufacturer's name, purchaser name and purchase order number, 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.</p> <p>(b) Rotation arrows indicating direction of rotation of major items should be cast in</p>
<p><b>10. Accessories</b></p>	<p>Following Accessories are required to supply along with each pump set:</p> <p>(a) Accessories in discharge line:</p> <p>i. Full flow, suitably sized and rated, spring loaded, Reset Relief Valve, mounted on the discharge piping. <b>Qty. – 01 No.</b> N.B: The relief valve is to be set at 110% of our maximum pressure requirement at the time of delivery.</p> <p>ii. Liquid filled discharge pressure gauge having a range up to 50 Kg/ Sq.cm, with built in dampening mechanism to minimize fluctuations for accurate response to pressure changes. <b>Qty. – 01 No.</b></p> <p>iii. Suitably designed <b>Maintenance Free</b> Discharge Pulsation Dampener with no replaceable parts whatsoever. The working principle of the same to be forwarded along with the offer for review at our end. The maximum peak to peak pressure fluctuations should not exceed 5% of the maximum operating pressure. <b>Qty. – 01 No.</b></p> <p>iv. Discharge Valve: Rising Spindle Type Gate or Ball Valve with RTJ Flanged end of suitable size and pressure rating conforming to API 600 with a pair of companion RTJ flanges (weld neck) conforming to ANSI B16.5 (latest edition) complete with two no RTJ gaskets and requisite no of studs and nuts. <b>Qty. – 01 No.</b></p> <p>v. Bypass valve: Rising Spindle Type Gate or Ball Valve with RTJ Flanged end of suitable size and pressure rating conforming to API 600 with a pair of companion RTJ flange (weld neck) conforming to ANSI B16.5 (latest edition) complete with two no RTJ gaskets and requisite no of studs and nuts . The size of the bypass valve should be same as discharge valve. <b>Qty. – 01 No.</b></p> <p>vi. Check Valve of suitable size and pressure rating, full opening/full bore type conforming to API 600 specification</p>

DESCRIPTION	SPECIFICATION	
		<p>with bolted cover, renewable seat, RTJ Flanged ends along with a pair of companion RTJ flanges (weld neck) conforming to ANSI B16.5 (latest edition) complete with two no RTJ gaskets and requisite no of studs and nuts . The size of the Check valve should be same as discharge valve. <b>Qty. – 01 No.</b></p> <p>vii. Drain valve of suitable size and pressure rating (to depressurize the system when carrying out maintenance of the unit). <b>Qty. – 02 Nos.</b></p> <p>viii. Complete set of fittings, interconnection piping and companion flanges with proper bolting, gaskets, dampener brackets, blind flanges etc. required for mounting all items mentioned above.</p> <p>(b) Accessories in Suction lines:</p> <p>i. Maintenance free suction stabilizer (volume bottle type). <b>Qty. – 01 No.</b></p> <p>ii. Pressure gauge</p> <p>iii. Suction Valve: Flanged end Rising Spindle Type Gate/ Ball valve of suitable size and pressure rating conforming to API 600 specification, with a pair of companion flanges, gaskets nuts and bolts. <b>Qty. – 01 No.</b></p> <p>iv. Complete set of fittings, interconnection piping and companion flanges with proper bolting, gaskets, dampener brackets, blind flanges etc. required for mounting all items mentioned above.</p> <p>(c) <b>NB:</b></p> <p>i. All the pipes valves and fitting of the discharge and suctions lines should be designed to work satisfactorily for the fluid(s) to be handled as specified above.</p> <p>ii. All the pipes valves and fitting of the discharge and suctions lines should be of same size.</p> <p>iii. All valves should be individual. <b>Combo valves are not acceptable.</b></p> <p>iv. Dampeners should be of Carbon Steel, construction built to ASME pressure vessel codes and code stamped.</p>
<b>E. SPEED REDUCTION GEAR BOX</b>	<p>(a) The speed reduction from the prime mover (gas engine) at its rated rpm to the desired rpm of pump shall be effected by means of a separate <b>external</b> foot mounted gearbox installed between the prime mover and the pump.</p> <p>(b) The Gear Box should be parallel shaft speed reducer with a gear rated to designed HP from an engine at 1500 rated RPM to the pump at desired Pump RPM, with a suitable Gear ratio. The gear unit shall conform to AGMA 6010 (latest editions). The service factor should not be less than that as required by AGMA 6010 (latest editions), the same to be mentioned in the offer for evaluation at our end.</p> <p>(c) The unit design includes cast housing, helical gear elements, anti-friction roller bearings on all shafts, and a self-contained splash lubrication system and suitable cooling system.</p>	
<b>F. PRIME MOVER (GAS ENGINE)</b>	<p>1. General Description:</p> <p>2. Conforming Standards</p> <p>3. Rated RPM</p> <p>4. Limiting Compression Ration</p>	<p>The Prime Mover should be a four stroke, spark-ignited, stoichiometric (Air-Fuel Ratio), naturally aspirated or turbo-charged, radiator cooled Gas Engine, rated for continuous power capable of developing the requisite horse power to power the reciprocating pump at rated load conditions.</p> <p>Rated for continuous power in accordance with ISO 3046/BS5514/IS10000 standards and capable of developing the requisite horse power to power the reciprocating pump at rated load conditions.</p> <p>1500 RPM (Max)</p> <p>12:1 (Max)</p>

DESCRIPTION	SPECIFICATION																															
5. Fuel	<p>Natural Gas.</p> <p><u>Composition of Fuel Gas:</u> The engine should be capable of developing required BHP as detailed in Clause F.1. above with fuel gas composition given below-</p> <table><tr><td><u>CONSTITUTION</u></td><td><u>Range by % VOLUME</u></td></tr><tr><td>Methane</td><td>93.50</td></tr><tr><td>Ethane</td><td>3.56</td></tr><tr><td>Propane</td><td>1.11</td></tr><tr><td>Nitrogen</td><td>0.20</td></tr><tr><td>Carbon-dioxide</td><td>0.42</td></tr><tr><td>Iso-Butane</td><td>0.23</td></tr><tr><td>N-Butane</td><td>0.37</td></tr><tr><td>Iso-Pentane</td><td>0.15</td></tr><tr><td>N-Pentane</td><td>0.11</td></tr><tr><td>Hexane+</td><td>0.35</td></tr><tr><td>Gas Gravity</td><td>0.6089</td></tr><tr><td>Gross Calorific Value</td><td>9462.8 Kcal/SCUM</td></tr><tr><td>Net Calorific Value</td><td>8706.3 Kcal/SCUM</td></tr><tr><td>Moisture content</td><td>21.0 - 120.0 LB/MMCFT(336.0 - 1992.0 KG/MMSCM)</td></tr></table> <p><b><u>NB:</u></b> Bidder has to include required gas conditioning &amp; fuel supply system in the scope of work to suit the requirement of the engine offered.</p>		<u>CONSTITUTION</u>	<u>Range by % VOLUME</u>	Methane	93.50	Ethane	3.56	Propane	1.11	Nitrogen	0.20	Carbon-dioxide	0.42	Iso-Butane	0.23	N-Butane	0.37	Iso-Pentane	0.15	N-Pentane	0.11	Hexane+	0.35	Gas Gravity	0.6089	Gross Calorific Value	9462.8 Kcal/SCUM	Net Calorific Value	8706.3 Kcal/SCUM	Moisture content	21.0 - 120.0 LB/MMCFT(336.0 - 1992.0 KG/MMSCM)
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6. Site Condition	<p>The prime mover of pump should be suitable for operation at the following site condition :</p> <ul style="list-style-type: none"><li>➤ Maximum Temperature : 48 DEG C</li><li>➤ Minimum Temperature : 05 DEG C</li><li>➤ Maximum Humidity at 21 DEG C : 100 %</li><li>➤ at 35 DEG C : 95 %</li><li>➤ at 41 DEG C : 70 %</li><li>➤ Maximum Altitude above sea level : 150 mt</li></ul>																															
7. BHP	<p>The selected Gas Engine should be capable of developing the requisite horse power to power the reciprocating pump at rated load conditions at <b>1500 rpm</b> with a <b>maximum compression ratio of 12:1</b> and rated for continuous power in accordance with ISO 3046/BS5514/IS10000 standards.</p> <p><b><u>NB:</u></b></p> <p>(a) The bidder has to furnish the basis and detailed calculation wrt the selection of the offered Engine wrt the offered Pump for the specified operating conditions alongwith the offer.</p> <p>(b) The bidder shall have to provide the undertaking that the offered engine shall develop required BHP to meet pump requirement suitably and it's overall performance shall be satisfactory with the natural fuel gas composition as specified in this tender.</p>																															
8. Aspiration	Naturally aspirated or Turbo-charged																															
9. Engine Cooling	Radiator Cooled (Blower type)																															
10. Details of Engine Sub - Systems	The engine should comprise of the following sub systems:																															
i. Cooling System	a) The cooling system of water-cooled engine should comprise of an engine mounted water pump, an industrial type heavy-																															

DESCRIPTION	SPECIFICATION	
		duty radiator suitable for operation in ambient temperature of 48 Deg C and a blower fan.
		b) The engine jacket water cooling system should be a closed circuit design with provision for filling, expansion, and de-aeration. The cooling pump should be driven by the engine. Coolant temperature should be internally regulated to disconnect external cooling system until operating temperature is achieved.
		c) Radiator, Engine Mounted: Heat rejected to the engine jacket water shall be discharged to the atmosphere through a close-coupled radiator. The radiator shall be sized to cool the engine continuously while operating at full rated load and at site conditions of 48 Deg C ambient.
		d) Blower Fan: The radiator cooling fan shall be a blower type driven from the engine. Air shall be drawn from the engine side and exhausted through the radiator cores.
		e) Fan and Belt guarding: The fan, fan drive, and fan belts shall be covered with punched steel mesh guarding for personnel protection.
ii. Air Intake System		The air intake system should comprise of a heavy duty engine air cleaner mounted on the engine with a vacuum indicator and air intake manifold with dry element requiring replacement no more frequently than 500 hours or once each year. Level of suspended particulate matter in ambient air at site is $75\mu\text{g}/\text{m}^3$ (maxm.)
iii. Electric Starting System		<p>The engine should have an electric starting system comprising of a Maintenance Free Heavy Duty Battery pack of reputed make having a minimum capacity 180 ampere hours with a alternator mounted on the engine for a battery charging and a 24 Volt starter, starter relay, and automatic reset circuit breaker to protect against butt engagement. Batteries shall be maintenance free, lead acid type mounted near the alternator. Batteries should be housed in a hard rubber or polypropylene case with provision for venting. Required cables should be furnished and sized to satisfy circuit requirements.</p> <p>A heavy duty wooden Battery Box with suitable cover/Lid is to be supplied along with the batteries for safe installation of the batteries for operation of the Gas Engine.</p>
iv. Battery Charger		The battery charger is to be a solid-state device with adjustable float voltage control. It is to be a constant voltage device with current limit.
v. Ignition System		The ignition system should be a <b>Non</b> -shielded ignition comprising Altronic III/V Engine driven ignition timer, Ignition Coil, High Tension and Low Tension Wiring Harness, Transformer and Spark Plugs.
vi. Exhaust System	a)	The exhaust system should comprise of water cooled exhaust manifold, stainless steel exhaust flexible connection, residential type exhaust silencer, spark arrestor and piping connections.
	b)	Heavy walled piping of schedule 40 with radii of 90 Deg bend at least $1\frac{1}{2}$ times the pipe diameter. Piping should be installed with appropriate insulation and shielding.
	c)	Piping should be supported and braced to prevent weight or thermal growth being transferred to the engine and flexible

DESCRIPTION	SPECIFICATION	
		expansion fittings provided to accommodate thermal growth.
vii. Fuel System	The fuel system should comprise of:	
	a)	Governor: The engine governor shall be Mechanical-Hydraulic / Electronic Speed Control with EG Electro-Hydraulic actuator or Barber Coleman Equal. Speed drop shall be extremely adjustable from 0 (isochronous) to 10% from no load to full rated load.
	b)	Carburetor
	c)	Gas pressure regulators to regulate gas pressure from 50 PSIG-20 PSIG to the required pressure at carburetor intake point. 50 PSIG- 20 PSIG fuel gas shall be available at site for tapping
	d)	Gas Filter and related linkages. The gas Filtration unit should be place on a separate skid for convenience of operators. (If required)
	e)	Fuel inlet line to the engine shall be having stainless steel flexible connection to take care of vibration/shock if any, in the system.
viii. Lubricating System	a)	The lubricating system should comprise of lubricating oil pump, lubricating oil filter with a replaceable paper element, lubricating oil cooler, lubricating oil pan and crankcase breather.
	b)	The lubricating oil pump shall be a positive displacement type that is integral with the engine and gear driven from the engine gear train. The system shall incorporate full flow filtration with bypass valve to continue lubrication in the event of filter clogging.
	c)	The bypass valve must be integral with the engine filter base of receptacle.
ix. Instrument Panel	The engine mounted instrument panel shall consist of a shock-mounted formed and welded enclosure. Provide Metric marked gauges as above. The instrument panel should include the following :	
	a)	Lubricating Oil pressure gauge
	b)	Lubricating oil temperature gauge
	c)	Water temperature gauge
	d)	Starting Switch
	e)	Ignition Switch
	f)	Mechanical/Digital tachometer and hour meter
	g)	Ampere meter
x. Engine Safety Controls	Engine mounted safety shut off/trip system for tripping the engine in the event of:	
	a)	Low lubricating oil Pressure
	b)	High cooling water temperature
	c)	Engine over speed
	d)	Over crank
xi. Other Features	a)	flexible coupling / direct coupling
	b)	flywheel with housing
	c)	lifting eyes
	d)	coupling guard if applicable
	e)	guards over belt drives ( blower fan, water pump drive pulley, timing
		pulley)

DESCRIPTION	SPECIFICATION	
		f) standard painting
		g) suitable hand throttle control
		h) mechanical hour meter
		i) SAE standard rotation.
		N.B: Provision of guards over belt drives and couplings has become mandatory as per recommendation of OISD (Oil Industry Safety Directorate) & DGMS (Director General of Mines & Safety).
	xii. General Notes on Engine	b) The engine shall conform to ISO : 3046 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 operation.
		c) The engine governing should be in accordance with Class A Governing specified in BS : 3109 : 1985 ( or latest)
		d) The bidder should submit the following information along with relevant performance rating Curves and engine product catalogue:  i. Gross HP developed at rated RPM ii. Deduction for fan and other ancillary equipment. iii. Net HP developed at rated RPM iv. Specific fuel consumption at rated power as well as at 110%, 75%, 50% and 25% of rated load.
		e) The fuel gas system shall consists of a minimum of following components but shall not be limited to these:  i. Main line pressure regulator. ii. Pressure relief safety valve. iii. Gas scrubber tank. iv. Gas fuel filter. v. Interconnecting gas piping from main line pressure regulator to engine. vi. The gas conditioning & piping should be carried out in such a way as to prevent condensate carry over to engine.
		f) 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.
G. DRIVE ARRANGEMENT	i.	The drive arrangement will involve 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 reciprocating pump.
	ii.	Suitably selected Flexible Disc with <b>taper lock bushing</b> should be incorporated to transfer power from the prime mover to the reciprocating pump through the transmission, as illustrated in the Sketch of "General Arrangement of Engine Driven Reciprocating Pumping unit".
	iii.	All rotating parts should be covered by suitable non sparking guards.
H. PUMP PACKAGE UNITIZATION	(i)	The pump set is to be supplied with all components and accessories fitted and mounted on an oilfield type three runner portable master skid as shown on the attached indicative drawing, Drawing No: FE/PROJ&TF/CKD/MP-GA/01-14 (NB: The drawing is indicative only but should not be treated as exhaustive, any addition as per the design considerations of the pump package may be incorporated by the manufacturer). The floor of the skid should be covered with anti skid steel plates. While unitizing the pump set, easy approach to various components should be kept in mind, to facilitate operational and maintenance requirements The skid should be fabricated out of properly sizes beams to withstand loading /unloading and transfer in oil field trucks.



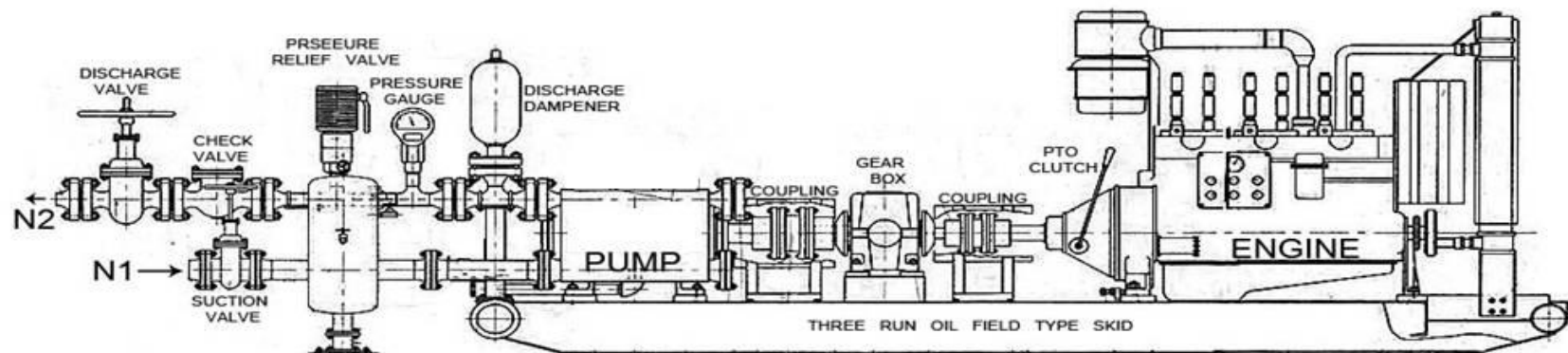
DESCRIPTION	SPECIFICATION	
	<p>The skid shall be sized to contain the entire pump and engine unit and should include the following components:</p> <ol style="list-style-type: none"> <li>Drip pan for cradle/fluid area of pump and packing area complete with threaded drain</li> <li>Dip lip for cradle / fluid area of pump and packing area</li> <li>Grouting holes</li> <li>Radiator bumper guard</li> <li>Exhaust tubing and supports</li> <li>Horizontal adjustment screws for minor adjustment</li> <li>Two grouting bosses on skid</li> <li>Interconnection piping spool pieces on suction and discharge with ancillary components</li> <li>Non sparking Aluminum safety guards.</li> <li>One set of proper size foundation bolts and nuts with each pump sets.</li> </ol> <p>(ii) <b>Anti-Corrosive Painting: The Complete Pump Package inclusive of Engine, Pump, Gear Box, Couplings, Valves, Skid and any surfaces exposed to the environment to be coated with suitable paint/coating (eg: Marine Paint) to withstand severely corrosive atmosphere caused by Sodium Chloride Solution.</b></p>	
<b>I. PRE DESPATCH INSPECTION AND TESTING</b>	(a)	The pump set shall be inspected by OIL's deputed engineer at manufacturers / assembler's works/ factory prior to dispatch. However, such inspection will not relieve the supplier of his responsibility to ensure that the equipment supplied conforms to the correct specifications and is free from manufacturing and all other defects.
	(b)	The supplier shall carry out full load performance test on the pump set, at duty conditions, in the presence of OIL's deputed representative.
	(c)	<p><b>N.B. :</b></p> <ol style="list-style-type: none"> <li>The QAP (Quality Assurance Plan) for the Pump sets shall have to be submitted to OIL for approval prior to Pre despatch inspection at supplier's works.</li> <li>Charges for carrying out the above tests at the manufacturer's facility should be included in the purview of the offer. However, cost of travelling, boarding, lodging of OIL's engineers will be to OIL's account.</li> </ol>
	(d)	A draft copy of the composite operation manual of the complete pump packages including control panel shall be submitted to representative of OIL during pre-despatch inspection at supplier's works for approval. Three (03) copies of the approved copy of the composite operation manual to be supplied along with the documents as mentioned under Clause J.4
<b>J. CERTIFICATES AND DOCUMENTS TO BE FORWARDED</b>	1. Documents should be forwarded along with the quotations:	a) Product line catalogue, specifying materials of construction and constructional features of the offered pump and technical literatures of all ancillary equipment.
		b) Performance chart of the piston pump including all technical calculations such as hydraulic horse power, volumetric efficiency, mechanical efficiency, RPM, gear ratio, maximum piston load, NPSH requirement, etc.
		c) Detail calculation to justify that BHP of the offered prime mover engine is suitable to meet the pumping requirement as specified in the tender. The power losses or mechanical efficiency of each component of the drive system such as coupling, gearbox etc. are to be mentioned clearly.
	2. The following documents shall have to be forwarded within a month of issue of LOI or placement of firm order	a) A foundation diagram for the complete pump set indicating the static and dynamic loads of the package.
		b) Pump Package Unitization plan/ drawing.
	3.	Material test (MOC) certificate of the fluid end components and power end components must be forwarded along with the pre-despatch inspection notice from supplier.

DESCRIPTION	SPECIFICATION
	<p>4. The following documents must be forwarded along with the supply of equipment.</p> <ol style="list-style-type: none"> <li>Certified test results</li> <li>Certificate of hydrostatic testing</li> <li>Manufacturers certificate of authenticity</li> <li>Certificate of test / conformance of pump and associated ancillaries like relief valves, pressure gauges, dampeners, Flexible Metallic braided hose etc.</li> <li>Two sets of operation and maintenance manuals including trouble shooting, parts catalogue of pump, engine, gearbox and all other accessory equipment for each set.</li> <li>Three (03) sets of composite operational manual per pump set for the complete pump package including control panel consist of clear-cut simple instruction for start, stop, restart, significance of various display in the control panel, and negotiation of alarms etc.</li> </ol> <p><b>NOTE:</b> All the above mentioned document Under Clause J.4 shall have to be packed separately with a packing list and prominently labeled with OIL's Purchase order No: _____ and to be dispatched to:</p> <p>HEAD- FIELD ENGINEERING OIL INDIA LIMITED DULIAJAN- 786602 ASSAM, INDIA</p>
<b>K. INSTALLATION &amp; COMMISSIONING</b>	<p>a) <b>Installation/commissioning charges should be quoted separately which shall be considered for evaluation of the offers.</b> These charges should include 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. No accommodation of Installation &amp; Commissioning personnel shall be provided by OIL. Only local transportation shall be provided by OIL.</p> <p>b) The pump set is to be supplied in assembled condition, i.e., coupled with gear box, prime mover (engine) and mounted on an oilfield type three runner portable master skid. All valves, accessories, engine exhaust silencer, Fuel Line assemblies, Batteries etc. to be fitted should be supplied separately and installed/assembled at site by the Supplier. The pump set to be so supplied that, after construction of recommended foundation and completion of necessary grouting, the pump set can be run by simply connecting the engine fuel and pump suction – discharge pipings.</p> <p>c) 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. OIL will provide necessary statutory permits in classified areas as and when required. Arc welding / Gas Cutting services if required shall be provided by OIL.</p> <p>d) The pump set shall be treated as commissioned only after successful completion of a trial run on available load for a minimum period of 72 hrs and on satisfactory performance shall be subsequently handed over to OIL.</p> <p>e) Installation &amp; Commissioning Scope:</p> <ol style="list-style-type: none"> <li>Construction of Civil Foundation, Grouting and Erection of Shed: <b>OIL</b></li> <li>Installation of All Valves &amp; Fittings supplied with the Pump Set: <b>Supplier</b></li> <li>Installation of Engine Exhaust silencer: <b>Supplier</b></li> <li>Filling up of all requisite Lube Oil/Fluids etc.: <b>Supplier</b></li> <li>Installation of All Pump Accessories to make the pump ready for operation: <b>Supplier</b></li> <li>Installation of All Engine Accessories to make the Engine ready for operation: <b>Supplier</b></li> <li>Installation of Pump Piping Connections: <b>OIL</b></li> <li>Supply of Lube Oil/Fluids etc.: <b>OIL</b></li> </ol>

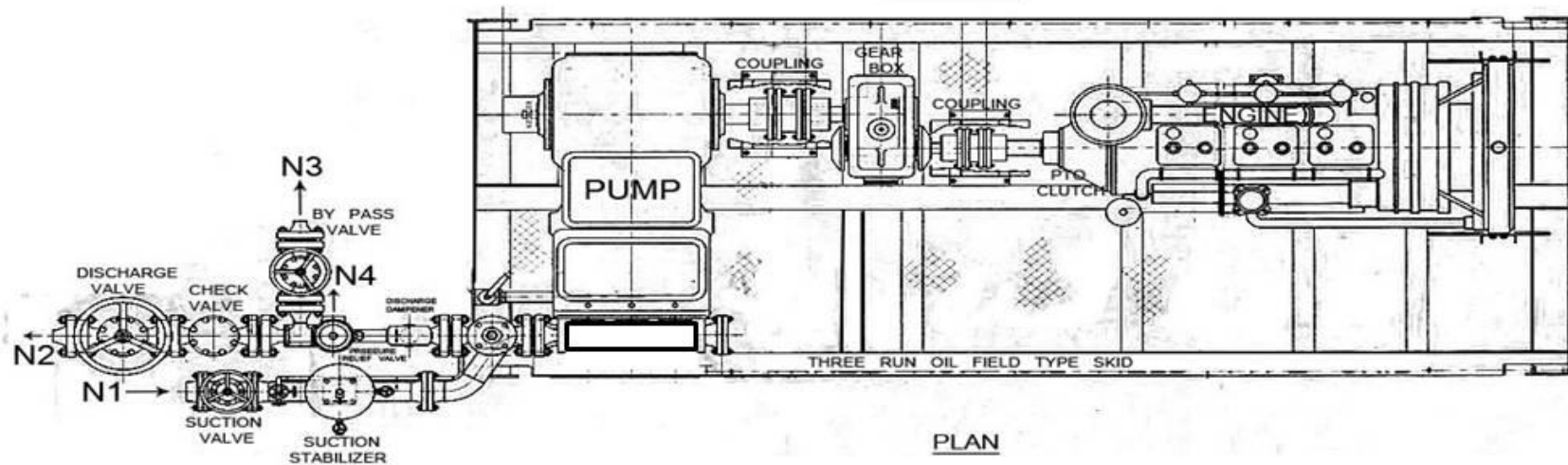
DESCRIPTION	SPECIFICATION																																													
L. WARRANTY	The warranty period for the engine, pump set and all ancillary equipment shall be a minimum of 18 months from the date of dispatch/shipment or 12 months from the date of commissioning, whichever is earlier.																																													
M. SPARE PARTS AND SPECIAL TOOLS	<p>(a) A set of tools required for normal maintenance of the Pump Set shall have to be supplied along with the final supply. Any special tools required for commissioning of the pump set shall also have to be supplied. The same to be provided in a suitable tool box.</p> <p>(b) Bidders has to provide the price, along with the part numbers of the following <i>spares [as detailed under clause nos.: M. (c) &amp; (d) below]</i>, separately, that OIL envisage shall be required for maintenance of the pump set for two years. <b>THE PRICES OF THESE SPARES SHOULD NOT BE INCLUDED IN THE QUOTED PRICE AND SHALL NOT BE CONSIDERED FOR COMMERCIAL EVALUATION OF THE OFFER.</b></p> <p><b>NOTE:</b></p> <p>(i) <u><i>Pdf. file of the prices, along with the part numbers of the spares as detailed under clause nos.: M. (c) &amp; (d) below (which will not be considered for evaluation) can be uploaded as a part of Financial Document in GeM portal. Provision for submission of such prices have been enabled against the tender in GeM portal and HAVE TO BE SUBMITTED ALONG WITH THE PRICE BID ONLY.</i></u></p> <p>(ii) <u><i>The Techno-commercial Bid/Un-priced Bid in GeM portal shall contain only the technical and commercial details except the prices. No price shall be provided in the Techno-commercial Bid/Un-Priced Bid.</i></u></p> <p>(iii) <u><i>Cost of spares under clause nos.: M. (c) &amp; (d) below should not be included in the total quoted price.</i></u></p> <p>(iv) <u><i>The quoted price of the spares as detailed under clause nos.: M. (c) &amp; (d) below shall remain valid for 2(two) years from the date of issue of PO. OIL at its discretion may place order for these spares at the quoted rates within the validity period.</i></u></p> <p>(c) <u>Piston Pump :</u></p> <table><tr><td>i.</td><td>Suction valve assembly</td><td>: 6 nos. per pump</td></tr><tr><td>ii.</td><td>Delivery valve assembly</td><td>: 6 nos. per pump</td></tr><tr><td>iii.</td><td>Valve cover gasket</td><td>: 6 nos. per pump</td></tr><tr><td>iv.</td><td>Valve seat (suction)</td><td>: 6 nos. per pump</td></tr><tr><td>v.</td><td>Valve seat (delivery)</td><td>: 6 nos. per pump</td></tr><tr><td>vi.</td><td>Rod wiper</td><td>: 6 sets per pump</td></tr><tr><td>vii.</td><td>Piston</td><td>: 3 nos. per pump</td></tr><tr><td>viii.</td><td>Piston packing</td><td>: 6 sets per pump</td></tr><tr><td>ix.</td><td>Crank pin bearing</td><td>: 4 sets per pump</td></tr></table> <p>(d) <u>Gas Engine :</u></p> <table><tr><td>i.</td><td>Spark plug</td><td>: 1 set per engine</td></tr><tr><td>ii.</td><td>Ignition transformer</td><td>: 1 set per engine</td></tr><tr><td>iii.</td><td>Lube oil filter element</td><td>: 6 nos. per engine</td></tr><tr><td>iv.</td><td>Set of Vee belts</td><td>: 2 sets per engine</td></tr><tr><td>v.</td><td>Air filter element</td><td>: 4 nos. per engine</td></tr><tr><td>vi.</td><td>Set of gaskets</td><td>: 1 set per engine</td></tr></table> <p><b>Note:</b> All the above mentioned Spares/ tools <i>[as detailed under clause nos: M. (a)]</i>, shall have to be packed separately indicating OIL's Purchase Order No. with packing list and to be supplied along with the supply of the pump package addressed to :</p> <p>HEAD- FIELD ENGINEERING OIL INDIA LIMITED DULIAJAN- 786602 ASSAM, INDIA</p>	i.	Suction valve assembly	: 6 nos. per pump	ii.	Delivery valve assembly	: 6 nos. per pump	iii.	Valve cover gasket	: 6 nos. per pump	iv.	Valve seat (suction)	: 6 nos. per pump	v.	Valve seat (delivery)	: 6 nos. per pump	vi.	Rod wiper	: 6 sets per pump	vii.	Piston	: 3 nos. per pump	viii.	Piston packing	: 6 sets per pump	ix.	Crank pin bearing	: 4 sets per pump	i.	Spark plug	: 1 set per engine	ii.	Ignition transformer	: 1 set per engine	iii.	Lube oil filter element	: 6 nos. per engine	iv.	Set of Vee belts	: 2 sets per engine	v.	Air filter element	: 4 nos. per engine	vi.	Set of gaskets	: 1 set per engine
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DESCRIPTION	SPECIFICATION
<b>N. AFTER SALES SERVICE</b>	a) The nature of after sales service, which can be offered by the bidder during initial commissioning and also subsequently should be clearly stated.
	b) Bidders should also confirm that spares, both regular consumable ones as well as vital / insurance spares, for engine, pump and all accessories quoted, shall be available for at least 10 years after the delivery of the material.
<b>O. SPECIAL NOTES</b>	(1) The offered pump should be a Gas Engine Driven Horizontal Piston Type Reciprocating Pump, suitable for meeting the delivery parameters (Volume and Pressure) mentioned in the tender.
	(2) The gas engine should be a four stroke, spark-ignited, stoichiometric(Air-Fuel Ratio), naturally aspirated or turbo-charged, radiator cooled engine, rated for continuous power in accordance with ISO 3046/BS5514/ IS10000 standards and capable of developing requisite horse power to power the reciprocating pump at rated load conditions with rated rpm 1500 and limiting compression ratio 12:1 (maximum).
	(3) The model of pump offered as per the tender should be one that has a proven track record for continuous duty on Oil Field Mud or Chemical Salt Solution service applications for a minimum period of 3000 hours or 01 (one) year from its date of commissioning.  In this regard satisfactory performance certificate of the offered pump model from the end user has to be enclosed along with the offer.
	(4) The model of the offered Gas Engine for the pump set should have logged minimum 3000 hours or 01(one) year from its date of commissioning prior to the bid closing date of this tender.  In this regard satisfactory performance certificate of the offered Gas Engine model from the end user has to be enclosed along with the offer.
	(5) The bidder shall have to provide undertaking that in case the order is placed on the bidder, the pump packages to be supplied (including major component and all its accessories), will be manufactured after the bid closing date of this tender.

## ANNEXURE - II



ELEVATION



PLAN

**LEGEND:**  
 N1 - SUCTION  
 N2 - DISCHARGE  
 N3 - BY PASS VALVE  
 N4 - SRV OUTLET

**DRG NO: FE/PROJ&TF/CKD/MP-GA/01-14**  
**TITLE: GENERAL ARRANGEMENT OF ENGINE DRIVEN RECIPROCATING PUMPING UNITS**  
**(WITH EXTERNAL GEAR REDUCTION)**  
**(NOT TO SCALE)**

## **ANNEXURE – III**

### **DATA SHEET**

*(To be filled up by the bidder and submitted along with the technical bid)*

<b>A.</b>	<b>DATA SHEET FOR PUMP:</b>	<b>Bidder's offer</b>
1	MAKE	
2	MODEL	
3	SIZE ( PISTON DIAMETER X STROKE LENGTH )	
4	LIMITING PRESSURE AND VOLUME AT OFFERED SIZE	
5	OFFERED SPEED	
6	DISCHARGE VOLUME @ OFFERED SPEED ( $\eta_{vol} = 95\%$ )	
7	HHP REQUIREMENT AS PER NIT PARAMETERS	
8	MAKE AND MODEL OF EXTERNAL GEAR BOX	
9	GEAR RATIO OF EXTERNAL FOOT MOUNTED GEAR BOX	
10	TYPE AND SIZE OF COUPLING BETWEEN CLUTCH PTO AND GEAR BOX INPUT SHAFT	
11	TYPE AND SIZE OF COUPLING BETWEEN GEAR BOX OUTPUT SHAFT AND PUMP INPUT SHAFT	
<b>B.</b>	<b>DATA SHEET FOR GAS ENGINE:</b>	
1	MAKE	
2	MODEL	
3	NUMBER OF CYLINDERS	
4	ASPIRATION	
5	COMPRESSION RATIO	
6	SIZE (BORE X STROKE )	
7	DISPLACEMENT	
8	RATED SPEED	
9	DUTY	
10	GROSS HP AT RATED RPM	
11	DEDUCTION FOR FAN, ALTITUDE , TEMPERATURE	
12	NET HP AVAILABLE AT 1500 RPM	
13	SPECIFIC FUEL CONSUMPTION AT:	
	# 110% LOAD	
	# 100% LOAD	
	# 75% LOAD	
	# 50% LOAD	
14	LUBRICATING OIL CONSUMPTION ( LT / HR )	
15	ENGINE SUMP CAPACITY ( LTS )	
16	ENGINE RADIATOR CAPACITY ( LTS )	
17	MAKE AND TYPE OF GOVERNOR	
18	MAKE OF CLUTCH PTO	
19	MODEL OF CLUTCH PTO	
20	MAKE OF STARTER	
21	MAKE AND MODEL OF COUPLING BETWEEN CLUTCH PTO AND GEARBOX	

## **ANNEXURE – IV**

### **TECHNICAL CHECK LIST FOR PUMP PACKAGES**

*(To be filled up by the bidder and submitted along with the technical bid)*

SL. NO.	QUESTIONS	YES/NO
1	Whether the bidder has submitted their offer (Technical) by duly filling up the relevant column of the following documents –  (ii) Annexure – III - Data Sheet. (iii) Annexure – VII - Bid Evaluation Matrix (Technical Specification) (iv) Annexure – VIII - Bid Evaluation Matrix (BEC/BRC)	
2	Whether quoted as OEM of Pump and whether documentary evidences submitted?	
3	Whether quoted as authorised dealer of OEM of Pump and whether documentary evidences submitted?	
4	Whether quoted as OEM recommended assembler of Pump sets and whether documentary evidences submitted?	
5	Whether the offered Pump is a Horizontal Piston type Reciprocating Pump?	
6	Whether the Pump is designed for continuous service duty?	
7	Whether the offered engine conforms to ISO3046 / BS 5514 / IS 10000 specifications?	
8	Whether the Minimum Net HP of the engine is as per NIT requirement?	
9	Whether the engine is rated for continuous power?	
10	Whether the engine is water-cooled?	
11	Whether the speed reduction gearbox is external foot-mounted?	
12	Whether the floor of the three runner skid shall be covered by checkered plates?	
13	Whether Flexible disc / grid member couplings have been incorporated in the transmission?	
14	Whether guards shall be provided over couplings and belt drives?	
15	Whether the two years spares for the packages indicated have been quoted?	
16	Whether special tools and commissioning spares have been included in the scope of supply?	
17	Whether spares shall be available for 10 years after supply of equipment?	
18	Whether separately highlighted any deviation from the technical specifications?	
19	Whether the Pre-despatch inspection of the Pump packages shall include Full Load Performance test of the Pump Sets?	
20	Whether the bidder has submitted the undertaking that the offered materials of construction of the pump are suitable for the specified operating conditions (as mentioned in the tender)?	
21	If the bidder is an OEM (pump) or authorized dealer of OEM of the pump or an OEM( pump ) recommended assembler of pump sets, whether the bidder has submitted undertaking that bidder will purchase the engine from OEM of Engine or their authorized dealer?	
22	If the bidder is an OEM (pump) recommended assembler of pump sets, whether the bidder has submitted undertaking that the bidder will purchase the Engine and the pump from OEM or their authorized dealer.	
23	If the bidder is other than OEM of pump, whether the bidder has submitted undertaking from OEM that, 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.	
24	Whether the bidder has submitted undertaking that the offered engine shall develop required BHP to meet pump requirement suitably and it's overall performance shall be satisfactory with the natural fuel gas composition as specified in this tender?	
25	Whether the bidder has submitted undertaking that in case the order is placed on the bidder, the pump packages will be supplied (including major component and all it's accessories), will be manufactured after the bid closing date of this tender?	

## **ANNEXURE – V**

### **BID EVALUATION CRITERIA/BID REJECTION CRITERIA**

The bids shall conform generally to the specifications and terms & conditions given in the bid document. Bids shall be liable for rejection in case the materials/services offered do not conform to the required parameters stipulated in the technical specifications. Notwithstanding the general conformity of the bids to the stipulated specifications, 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:**

- 1.0 The bidder should be an OEM of pump or authorized dealer of OEM of pump or an OEM (of pump) authorized assembler of pump sets. Bidder to furnish valid documentary evidence in this regard. In all cases the bidder has to purchase the engine from an OEM of Engine or their Authorized Dealer. Undertaking from the bidder in this regard must be enclosed with the offer.
- 2.0 If the bidder is an OEM (of pump) recommended assembler of pump sets, he must purchase the pump from OEM or their authorized dealer. Undertaking from the bidder in this regard must be enclosed with the offer.
- 3.0 **Bidders should have the experience of successfully executing at least 01(one) SIMILAR ORDER of value Rs. 94,89,375.00 (Rupees Ninety Four Lakh Eighty Nine Thousand Three Hundred Seventy Five) Only in preceding 5(five) years from the Original Bid Closing Date of the tender.**

#### **Note:**

- i) **SIMILAR ORDER above means successful supply & commissioning of reciprocating horizontal piston pumps used for handling Oil Field Muds or Chemical Salt Solutions of Capacity minimum 90 KLPH or above** in any of the following:
  - a) Central/State Govt. Organization
  - b) Public Sector Undertaking
  - c) Public Limited Companies.
- ii) The bidder shall submit following documents in support of his previous supply experience as applicable-
  - a) Copy(ies) of Purchase Order(s) / Contract document(s) and
  - b) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) / contract(s) –
    - Completion report / performance certified from the clients,
    - Bill of lading.
    - Delivery challan / invoice etc.
    - Any other documentary evidence that can substantiate the successful execution of each of the Purchase Order(s) / contract(s) cited above.
- iii) If the prospective bidder is executing SIMILAR work which is still running and the contract value executed as on the original bid closing date is equal to or more than the minimum prescribed value in the BEC/BRC, such experience will also be taken into consideration provided that the bidder has submitted satisfactory work execution certificate issued by end user.
- iv) SIMILAR work executed by a bidder for its own organization/subsidiary will not be considered as experience for the purpose of meeting BRC.

- 4.0 **DELIVERY PERIOD:** Delivery to be completed within 180 days from the date of issue of PO. The date of receipt of materials at site shall be considered as the date of delivery. Installation & Commissioning of the pump must be completed within 45 days from the receipt of site clearance from OIL.

Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.



**(B) FINANCIAL**

- 1.0** The bidder shall have an annual financial turnover of minimum **INR 94,89,375.00** during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender.
- 2.0** "Net Worth" of the bidder should be positive for the financial/accounting year just preceding to the original bid closing date of the tender.
- 3.0** Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying **(PROFORMA – A)** that 'the balance sheet/Financial Statements for the financial year (As the case may be) has actually not been audited so far'.

**Note:**

- a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-
- i) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in **PROFORMA - B**.
- OR
- ii) Audited Balance Sheet along with Profit & Loss account.
- b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.
- 4.0** In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date of Balance Sheet and Profit & Loss Account. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.
- 5.0** In case the Bidder is subsidiary company (should be 100% owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted:
- (i) Turnover of the parent/ultimate parent/holding company should be in line with Para B (1.0) above.
- (ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para B (2.0) above
- (iii) Corporate Guarantee **(PROFORMA - C)** on parent/ultimate parent/holding company's company letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them.
- (iv) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.

## **ANNEXURE - VI**

### **GENERAL NOTES TO BIDDERS**

- 1.0** Bidders shall submit their offer mentioning pointwise compliance/noncompliance to all the terms & conditions, BEC/BRC, Specifications etc. Any deviation(s) from the tender terms & conditions, BEC/BRC, Specifications etc. should be clearly highlighted specifying justification in support of deviation.
- 2.0** 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 OIL, failing which the offer will be summarily rejected. However, bidder(s) must note that there should not be any additional financial involvement arising out of such post tender clarifications.
- 3.0** The Bidder to submit following Technical Evaluation Sheet along with technical bid -

Annexure – VII: Technical Evaluation Matrix (Technical Specification)

Annexure – VIII: Bid Evaluation Matrix (BEC/BRC)

**4.0 INTEGRITY PACT:**

The Integrity Pact is applicable against this tender. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide **PROFORMA - D** 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. 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. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.

OIL's Independent External Monitors at present are as under:

SHRI RUDHRA GANGADHARAN, IAS (Retd.),  
Ex-Secretary, Ministry of Agriculture  
E-Mail ID: rudhra.gangadharan@gmail.com

SHRI SUTANU BEHURIA, IAS (Retd.),  
E-mail ID: sutanu2911@gmail.com

SHRI OM PRAKASH SINGH, IPS (Retd.)  
Former DGP, Uttar Pradesh  
E-mail: Ops2020@rediffmail.com

- 4.1** In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact.
- 4.2** In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the organisation may take further action as per the terms and conditions of the contract.

**5.0 TAX COLLECTIBLE AT SOURCE (TCS):**

Tax Collectible at Source (TCS) applicable under the Income-tax Law and charged by the SUPPLIER shall also be payable by OIL along with consideration for procurement of goods/materials/ equipment. If TCS is collected by the SUPPLIER, a TCS certificate in prescribed Form shall be issued by the SUPPLIER to OIL within the statutory time limit.

Payment towards applicable TCS u/s 206C (IH) of Income Tax Act, 1961 will be made to the supplier provided they are claiming it in their invoice and on submission of following undertaking along with the invoice stating that:

- a. TCS is applicable on supply of goods invoiced to OIL as turnover of the supplier in previous year was more than Rs. 10 Cr. and
- b. Total supply of goods to OIL in FY ..... (As applicable) exceeds Rs. 50 Lakh and
- c. TCS as charged in the invoice has already been deposited (duly indicating the details such as challan No. and date) or would be deposited with Exchequer on or before the due date and
- d. TCS certificate as provided in the Income Tax Act will be issued to OIL in time.

However, Performance Security deposit will be released only after the TCS certificate for the amount of tax collected is provided to OIL. Supplier will extend the performance bank guarantee (PBG), wherever required, till the receipt of TCS certificate or else the same will be forfeited to the extent of amount of TCS, if all other conditions of Purchase order are fulfilled.

The above payment condition is applicable only for release of TCS amount charged by supplier u/s 206C (I H) of Income tax Act, 1961.

- 6.0** At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the tender Documents through issuance of Corrigendum(s)/Addendum(s). Bidders are expected to take the Corrigendum(s)/Addendum(s) into account in preparation and submission of their bid. No separate intimation for Corrigendum(s)/Addendum(s) published by OIL shall be sent to the Bidders.

**7.0 APPLICABILITY OF BANNING POLICY OF OIL INDIA LIMITED:**

Banning Policy dated 6th January, 2017 as uploaded in OIL's website will be applicable against the tender (and order in case of award) to deal with any agency (bidder/contractor/supplier/ vendor/service provider) who commits deception, default, fraud or indulged in other misconduct of whatsoever nature in the tendering process and/or order execution processes. Applicability of the policy shall include but not limited to the following in addition to other actions like invoking bid security/performance security/cancellation of order etc. as deemed fit and as mentioned elsewhere in the tender:

- a) Backing out by bidder within bid validity.
- b) Backing out by successful bidder after issue of LOA/Order/Contract
- c) Non/poor performance and order/contract execution default.

The bidders who are on Holiday/Banning/Suspension list of OIL on due date of submission of bid/ during the process of evaluation of the bids, the offers of such bidders shall not be considered for bid opening/evaluation/award. If the bidding documents were issued inadvertently/downloaded from website, the offers submitted by such bidders shall also not be considered for bid opening/evaluation/ Award of Work.

**8.0 RESTRICTIONS ON PROCUREMENT FROM A BIDDER OF A COUNTRY SHARING LAND BORDER WITH INDIA:**

Ministry of Finance of Govt. of India, Department of Expenditure, Public procurement Division vide office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (order-Public Procurement no.1) has proclaimed the insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 regarding restrictions on procurement from a bidder of a country which shares a land border with India on the grounds of defence of India on matters directly or indirectly related thereto including national security. For clauses on applicability of above restriction please refer the above mentioned Notification. Bidders are requested to take note of the clauses and submit their offers accordingly, wherever applicable. In this regard, bidders must submit duly sealed & signed undertaking as per format provided vide, **PROFORMA – E** along with the technical bid.

**“Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services or works, only if the bidder is registered with the competent authority”**

**9.0 CONCESSIONAL GST:**

The items covered in this Tender shall be used by Oil India Limited in the PEL/ML areas and hence concessional GST @5% will be applicable as per Govt. Policy in vogue.

**Note:** Successful bidder shall arrange to provide all necessary documents (invoice etc.) to OIL for applying Essentiality Certificate on receipt of request from OIL or at least **45 days** prior to their readiness for despatch, whichever is earlier. Further, successful bidder shall affect dispatch only on receipt of relevant certificates/shipment clearance from OIL, failing which all related liabilities shall be to supplier's account.

#### **10.0 MICRO AND SMALL ENTERPRISES (MSE):**

Categorisation and various Criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 and Amendment vide Gazette Notification no. CG-DL-E-16062021-227649 dated 16<sup>th</sup> June, 2021 issued by Ministry of MICRO, SMALL AND MEDIUM ENTERPRISES. The existing enterprises registered under EM- Part-II or UAM till 30<sup>th</sup> June, 2020 shall continue to be valid only for a period up to the 31st day of December, 2021.

The bidder claiming as MSE status (MSE-General, MSE-SCIST, MSE -Woman) against this tender has to submit the following documents for availing the benefits applicable to MSEs:

**Udyam Registration Number with Udyam Registration Certificate.**

**OR**

**Proof of registration with District Industry Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or Udyog Adhar registration or registration with any other body specified by Ministry of MSME.**

**Note:** *In case bidding MSE is owned by Schedule Caste or Schedule Tribe entrepreneur or Woman Entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ST entrepreneur/ Woman Entrepreneurs should also be enclosed.*

- 10.1** For availing benefits under Public Procurement Policy (Purchase preference), the interested MSE Bidders must ensure that they are the manufacturer/service provider of tendered item(s) and registered with the appropriate authority for the said item(s).

#### **11.0 POLICY TO PROVIDE PURCHASE PREFERENCE (LINKED WITH LOCAL CONTENT) (PPLC):**

Bidders to note that Ministry of Petroleum & Natural Gas, Government of India implemented PPLC Policy to provide Purchase Preference (linked with local content) by notification no. Ref. FP-20013/2/2017-FP-PNG dtd. 17.11.2020 and its amendment issued from time to time. PP-LC Policy (including its latest modifications/amendments) as may be prevailing on the date of Price Bid Opening shall be applicable against this tender. Bidders are requested to go through the policy and take note of the following while submitting their offer.

**Under the PPLC policy the bidder must declare their percentage of local content in their technical bid unambiguously. In case bidder declares their local content in terms of range or in any other non-conclusive manner, the lowest value of bidder's local content shall be considered for determination of the class of the bidder.**

Bidders are requested to go through the policy and take note of the following while submitting their offer.

##### **1. Certification and Verification**

Class I/Class II Local suppliers are eligible to bid only if they meet the local content norms, therefore whether or not they want to avail PP-LC benefit, it will still be mandatory for them to give adequate documentation as follows to establish their status as class-I or class-II local supplier:

##### **(i) At bidding stage:**

##### **a) Price Break-up:**

- The bidder shall provide the percentage of local content in the bid.

##### **b)**

- The bidder shall submit an undertaking from the authorised signatory of bidder having the power of Attorney alongwith the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.
- In cases of procurement for a value in excess of Rs 10 crores, the undertaking submitted by the bidder shall be supported by a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or

practising chartered accountant (in respect of other than companies) giving the percentage of local content.

- However, in case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/ subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practising cost accountant or practising chartered accountant giving the percentage of local content is also acceptable.

(ii) After Contract Award

- The bidder shall submit an undertaking from the authorised signatory of bidder having the power of Attorney alongwith the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.
  - In cases of procurement for a value in excess of Rs 10 crores, the undertaking submitted by the bidder shall be supported by a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practising chartered accountant (in respect of other than companies) giving the percentage of local content.
  - However, in case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/ subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practising cost accountant or practising chartered accountant giving the percentage of local content is also acceptable.
2. Each supplier shall provide the necessary local-content documentation to the statutory auditor, which shall review and determine that local content requirements have been met, and issue a local content certificate to that effect on behalf of procuring company, stating the percentage of local content in the good or service measured. The Auditor shall keep all necessary information obtained from suppliers for measurement of Local Content confidential.
  3. The Local Content certificate shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.
  4. As regards cases where currency quoted by the bidder is other than Indian Rupee, exchange rate prevailing on the date of tender shall be considered for the calculation of Local Content.
  5. The Procuring Company shall also have the authority to audit as well as witness production processes to certify the achievement of the requisite local content.

**12.0 Bidder to categorically confirm under which policy i.e. PP-LC or MSME, they want to avail the benefit and to submit requisite document/certificate in support to avail this benefit. The bids will be evaluated based on their declaration. Tenders involving eligible/qualified MSME Vendors as well as LC Vendors, preference regarding placement of order shall be accorded to MSME Vendors in line with Public Procurement Policy over PP-LC Policy.**

**PROFORMA – A**

**FORMAT FOR CERTIFICATE OF COMPLIANCE OF FINANCIAL CRITERIA**  
**(ON THE OFFICIAL PAD OF THE BIDDER TO BE EXECUTED BY THE AUTHORIZED SIGNATORY OF THE BIDDER)**

**Ref: Clause No. B (3.0) - Financial Criteria of the BEC**

**Tender No.:** \_\_\_\_\_

I ..... the authorized signatory(s) of.....(Company or firm name of address) do hereby affirm and declare as under:-

The balance sheet/Financial Statements for the financial year \_\_\_\_\_ (as the case may be) has actually not been audited as on the Original Bid closing Date.

Place :.....

Date :.....

**Signature of the authorized signatory**

**Note:** *This certificate are to be issued only considering the time required for preparation of Financial Statements i.e. if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date.*

**PROFORMA – B**

**CERTIFICATE OF ANNUAL TURNOVER & NETWORTH**

<b>TO BE ISSUED BY PRACTISING CHARTERED ACCOUNTANTS' FIRM ON THEIR LETTER HEAD</b>		
<b><u>TO WHOM IT MAY CONCERN</u></b>		
<p>This is to certify that the following financial positions extracted from audited financial statements of M/s..... (Name of the bidder) for the last 3 (three) completed accounting years upto.....(as the case may be) are correct.</p>		
YEAR	TURNOVER In INR (Rs.) Crores/ USD Million*	NET WORTH In INR (Rs.) Crores / USD Million*
<p>*Rate of conversion (if used any): USD 1.00 = INR .....</p> <p>Place:</p> <p>Date:</p> <p>Seal:</p> <p>Membership No.:</p> <p>Registration Code:</p> <p>Signature:</p>		

***\*Applicable for Global Tenders.***

**NOTE: As per the guidelines of ICAI, every practicing CA is required to mention Unique Document Identification Number (UDIN) against each certification work done by them. Documents certified by CA without UDIN shall not be acceptable.**

## **PROFORMA – C**

### **PARENT/ ULTIMATE PARENT/ HOLDING COMPANY'S CORPORATE GUARANTEE TOWARDS FINANCIAL STANDING**

**(Delete whichever not applicable)  
(TO BE EXECUTED ON COMPANY'S LETTER HEAD)**

#### **DEED OF GUARANTEE**

THIS DEED OF GUARANTEE executed at ..... this ..... day of ..... by M/s .....(mention complete name) a company duly organized and existing under the laws of ..... (insert jurisdiction/country), having its Registered Office at.....herein after called "the Guarantor" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their Tender No..... for.....and M/s.....(Bidder) intends to bid against the said tender and desires to have Financial support of M/s..... [Parent / Ultimate Parent/Holding Company(Delete whichever not applicable)] and whereas Parent/Ultimate Parent/Holding Company(Delete whichever not applicable) represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the Financial support as required by the bidder for qualifying and successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed by the Guarantor to give this Guarantee and undertakes as follows:

1. The Guarantor confirms that the Bidder is a 100% subsidiary of the Guarantor.
2. The Guarantor agrees and confirms to provide the Audited Annual Reports of any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date.
3. The Guarantor have an annual financial turnover of minimum INR..... Cr or USD ..... during any of the preceding 03(three) financial/ accounting years reckoned from the original bid closing date.
4. Net worth of the Guarantor is positive for preceding financial/ accounting year.
5. The Guarantor undertakes to provide financial support to the Bidder for executing the project/job, in case the same is awarded to the Bidder.
6. The Guarantor represents that:
  - (a) this Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.
  - (b) the liability of the Guarantor, under the Guarantee, is limited to the 100% of the order value between the Bidder and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Bidder.
  - (c) this Guarantee has been issued after due observance of the appropriate laws in force in India.
  - (d) this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of New Delhi, India.
  - (e) this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.
  - (f) the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

for and on behalf of (Parent/Ultimate Parent/ Holding Company) (Delete whichever not applicable)	for and on behalf of (Bidder)
<u>Witness:</u> 1. 2.	<u>Witness:</u> 1. 2.



## **PROFORMA – D**

### **INTEGRITY PACT**

Between

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

And

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

#### **Preamble:**

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

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organization "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:
  - (i) 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.
  - (ii) 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.
  - (iii) 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 substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers 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.
  - (i) 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.
  - (ii) 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 cartelization in the bidding process.

- (iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant Anticorruption Laws of India, further, the Bidder (s) / Contractor (s) 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.
  - (iv) 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.
  - (v) Bidders to disclose any transgressions with any other company that may impinge on the anti-corruption principle.
  - (vi) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
  - (vii) Bidders not to pass any information provided by Principal as part of business relationship to others and not to commit any offence under PC/ IPC Act;
- (2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (3) The Bidder/Contractor signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

### **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.
4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.
5. Integrity Pact, in respect of a particular contract, shall be operative from the date Integrity Pact is signed by both the parties till the final completion of the contract **or as mentioned in Section 9- Pact Duration whichever is later**. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. Any issue relating to execution of contract, if specifically raised before the IEMs shall be looked into by IEMs.

#### **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 Earnest Money Deposit / Bid Security.
- (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 Security Deposit / Performance Bank Guarantee.
- (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 Principal will enter into Pacts on identical terms with all bidders and contractors.
- (2) The Bidder / Contractor undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the provisions laid down in this agreement/Pact by any of its sub-contractors/sub-vendors.
- (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**

- (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. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.

- (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. However, the Independent External Monitor shall give an opportunity to the bidder / contractor to present its case before making its recommendations to the Principal.
- (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.
- (9) In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.

#### **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. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.
- (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 / Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor and all sub-contractors shall also sign the IP.
- (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.
- (5) Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.

<b>M. B. SINGHA</b> ..... <b>For the Principal</b>  Date : 17.11.2021  Place : Duliajan	..... <b>For the Bidder/Contractor</b>  Witness 1: .....  Witness 2: .....
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## **PROFORMA – E**

**Format for Undertaking by Bidders towards compliance of office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (Public Procurement no. 1) issued by Department of Expenditure, Ministry of Finance, Govt. of India**

(To be typed on the letter head of the bidder)

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

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

Tender No. \_\_\_\_\_ Date: \_\_\_\_\_

**OIL INDIA LIMITED  
MATERIALS DEPARTMENT,  
DULIAJAN, ASSAM, INDIA**

**Dear Sirs,**

*We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; We certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. We hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where evidence of valid registration by the Competent Authority shall be attached.]”*

*We also agree that, during any stage of the tender/contract agreement, in case the above information/documents submitted by us are found to be false, Oil India Limited has the right to immediately reject our bid/terminate contract at any stage and carry out further legal action on us in accordance with law.*

Yours faithfully,  
For (type name of the firm here)

Signature of Authorised Signatory

Name :

Designation :

Phone No.

Place :

Date :

(Affix Seal of the Organization here, if applicable)

Note : This form should be returned along with offer duly signed.

## ANNEXURE – VII

### BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)

BID EVALUATION MATRIX (TECHNICAL SPECIFICATION) (TO BE FILLED IN BY BIDDER DULY SIGNED)													
	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied / Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)										
CLAUSE NO.	SPECIFICATION												
<b>A. BRIEF DESCRIPTION</b>	Gas Engine Driven Horizontal Piston Type Reciprocating Pump for Mud Circulation Purpose.												
<b>B. QUANTITY</b>	<b>01 (One) No.</b>												
<b>C. NOTE TO BIDDERS</b>	<p>1. Bidders are to submit their offer(Technical) by duly filling up the relevant column of the following document of the tender –</p> <p>(i) Annexure – III - Data Sheet.  (ii) Annexure – IV - Technical Checklist  (iii) Annexure – VII - Bid Evaluation Matrix (Technical Specification)  (iv) Annexure – VIII - Bid Evaluation Matrix (BEC/BRC)</p> <p>2. All the Annexures / Attachments are to be suitably marked and a list of the same to be submitted alongwith the offer.</p>												
<b>D. PUMP</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><b>1. Pump Type</b></td> <td>Horizontal Piston type Reciprocating Pump.</td> </tr> <tr> <td><b>2. Governing Standards</b></td> <td>API – 674</td> </tr> <tr> <td><b>3. Duty</b></td> <td>Continuous Duty <b>Note:</b> “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 .</td> </tr> <tr> <td><b>4. Rated Capacity</b></td> <td>90 KLPH to 100 KLPH</td> </tr> <tr> <td><b>5. Rated Discharge Pressure</b></td> <td>20 Kg/cm<sup>2</sup> (minimum)</td> </tr> </table>	<b>1. Pump Type</b>	Horizontal Piston type Reciprocating Pump.	<b>2. Governing Standards</b>	API – 674	<b>3. Duty</b>	Continuous Duty <b>Note:</b> “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 .	<b>4. Rated Capacity</b>	90 KLPH to 100 KLPH	<b>5. Rated Discharge Pressure</b>	20 Kg/cm <sup>2</sup> (minimum)		
<b>1. Pump Type</b>	Horizontal Piston type Reciprocating Pump.												
<b>2. Governing Standards</b>	API – 674												
<b>3. Duty</b>	Continuous Duty <b>Note:</b> “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 .												
<b>4. Rated Capacity</b>	90 KLPH to 100 KLPH												
<b>5. Rated Discharge Pressure</b>	20 Kg/cm <sup>2</sup> (minimum)												

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

			<b>TO BE FILLED BY THE BIDDER</b>
	<b>DESCRIPTION</b>	<b>BIDDER'S RESPONSE (Complied / Not Complied / Deviation/Not Applicable)</b>	<b>Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)</b>
<b>CLAUSE NO.</b>	<b>SPECIFICATION</b>		
	<b>6. Suction Condition</b> 4(four) Meters Negative Suction <b>(NB: <i>Charge pump / booster pump should not be used to meet the negative suction conditions</i>)</b>		
	<b>6.1 Liquid to be Handled</b> The pumping unit should be suitable for pumping fresh water or following corrosive salt solutions either single solution or mixture of salt solutions, the characteristics of individual salt solutions are given below: <i>(Bidder to confirm that the offered pump is suitable for pumping of the fluids as mentioned below)</i>		
	<b>a) Fresh Water:</b> I. pH : 7.3 - 6.3 II. Total dissolved solids(ppm) : 130 - 160 III. Carbon dioxide(ppm) : 0 -30 IV. Carbonate(ppm) : NIL V. Bi-Carbonate(ppm) : 115 - 122 VI. Silica(ppm) : 15 - 45 VII. Sulphate(ppm) : 23 - 2 VIII. Chloride(ppm) : 2 - 1 IX. Calcium(ppm) : 31 - 14 X. Magnesium(ppm) : 3 - 10 XI. Iron(ppm) : 4 -10 XII. Sodium(ppm) : NIL XIII. Potassium(ppm) : NIL XIV. Oil content(ppm) : NIL XV. Total Suspended Solids(ppm) - NIL		
	<b>b) Sodium Chloride Solution:</b> I. Density : 72 pcf (max)		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION		BIDDER'S RESPONSE (Complied / Not Complied / Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION			
		II. Turbidity : 150-200 NTU III. pH : 8.5 – 9.5 IV. Salinity as NaCl : 3,00,000 - 3,50,000 ppm V. Carbonate : NIL VI. Bicarbonate : 244 - 448 ppm		
		c) <b>Sodium Formate (HCOONa) solution:</b> I. Density : 80 pcf (max) II. Turbidity : 150-200 NTU III. pH : 9.0 – 9.5 IV. Salinity as NaCl : 1000 -1500 ppm V. Carbonate : 1000 – 1500 ppm VI. Bicarbonate : 100000 – 150000 ppm		
		d) <b>High Viscous Polymer Mix:</b> I. Density : 80 pcf (max) II. pH : 9.0 – 9.5 III. Salinity as NaCl : 1000-1500 ppm IV. Marsh Funnel Viscosity : 100 – 120 sec V. AV : 75 cp VI. PV : 43 cp VII. YP : 64 lbs/100 ft2		
		e) <b>Xanthan Polymer Mix:</b> I. Density : 80 pcf (max) II. pH : 9.0 – 9.5 III. Salinity as NaCl : 1000 -1500 ppm IV. Marsh Funnel Viscosity : 130-150 sec V. AV : 107 cp		



**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION		
7.	VI. PV : 33 cp		
	VII. YP : 148 lbs /100 ft2		
	<b>7. Design Features</b>		
	The guiding salient points are detailed below:		
	(a) <b>Fluid End Features:</b>		
	i. Mono Block Fluid End with bolt on type valve covers.		
	ii. Suction and Discharge on either side of the fluid end.		
	iii. Suction and discharge shall be flanged and suitable for the working pressure as specified.		
	iv. Any connection welded on to the fluid cylinder shall have to meet the material requirement of the fluid cylinder rather than the requirements of the connected pipings.		
	v. Should be provided with liners and the derails of the same to be furnished alongwith the offer.		
	vi. Surfaces of piston rods & cylinders in contact with packing shall have to hardened or coated or shall have a minimum surface hardness of Rockwell C35. Surface finish shall have to be 16Ra or better.		
	vii. Piston rods, both liquid and drive end, shall be of corrosion resistant material.		
	viii. Design of the pistons should match the mentioned service condition.		
	ix. Pistons to be fastened and locked with rod and cross head as suitable for the specified service conditions.		
	x. Interchangeable valve assemblies with replaceable tapered valve seats pressed onto mono block fluid end.		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION		BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION			
		xi. <b>Fluid End Lubrication:</b> Piston Lubrication should be achieved through belt driven packing lubricator (drip feed) Pump. NO EMD PUMP SHALL BE USED FOR THIS PURPOSE.		
		<b>(b) Power End Features:</b>		
		i. The Power end frame shall be a cast enclosure that will house crankshaft, connecting rods, crossheads and bearings.		
		ii. Flooded sump Splash / Lift gravity Lubrication for power end.		
		iii. Crankshaft shall have to be wrought or cast or forged alloy steel in one piece.		
		iv. The crank pin bearings shall be two piece precision type (preferably steel backed, precision type, Aluminum alloy/ Tin & babbitt lined)		
		v. Sealing to be provided at all openings in the power frame to prevent contamination of the power end lubricant.		
		vi. The power end shall have to be provided with a filtered vent and a NPS ¼ (minimum) connection for purging. An accessible drain (NPS ¼ minimum) shall have to be provided at the lowest point of the sump.		
		vii. <b>Power End Lubrication:</b> 1. The power end lubrication system to be splash or lift gravity type. (Type of lubrications method offered to be indicated.) A sight glass, gauge or oil level dipstick to be provided.		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

		DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION			
		2. Bearing oil temperature shall not exceed 70°C (160°F) anywhere in the system.		
	8. Material of Construction (MoC)	The material of construction (MOC) of following Fluid End and Power End components shall have to be suitable for operating conditions as mentioned in the tender. The bidder shall have to mention in their offer the MOC of the following Fluid end and Power end components of the offered pump with the applicable ASTM, AISI, ASME or SAE numbers, including material grade. When no such designation is available, the bidder's material specification, giving physical properties, chemical compositions, and test requirements, shall be included in the offer. Bidder shall furnish the MoC of the followings in details:		
		<b>(a) Fluid end components:</b> <ul style="list-style-type: none"> <li>i. Fluid End Block</li> <li>ii. Valve cover/valve</li> <li>iii. Hard coated Pistons</li> <li>iv. Valve seats</li> <li>v. Valve spring</li> </ul>		
		<b>(b) Power end components:</b> <ul style="list-style-type: none"> <li>i. Power frame</li> <li>ii. Crank shaft</li> <li>iii. Connecting rod</li> <li>iv. Crosshead</li> <li>v. Crosshead pin</li> <li>vi. Crosshead pin bushing</li> <li>vii. Extension rod</li> </ul>		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied / Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION		
	viii. Crank pin bearing (two piece)		
	<b>(c) Testing of Materials:</b> (i) The bidder shall specify the ASTM optional tests and inspection procedures that may be necessary to ensure that materials are satisfactory for the service. Such test shall have to be mentioned in the bidder's offer. The bidder shall have to submit detail test certificates for the material testing mentioned in their offer prior to pre- dispatch inspection of the pump sets.  (ii) The bidder shall have to provide undertaking along with the offer that the offered materials of construction of the pump are suitable for the specified operating conditions <i>(as mentioned in the tender)</i> .		
	<b>9. Name plate and Rotation Arrows</b> (a) A nameplate shall be securely attached at a readily visible location wherein the manufacturer's name, purchaser name and purchase order number, 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. (b) Rotation arrows indicating direction of rotation of major items should be cast in		
	<b>10. Accessories</b>	Following Accessories are required to supply along with each pump set:	

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION		BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION			
		(a) Accessories in discharge line:		
		i. Full flow, suitably sized and rated, spring loaded, Reset Relief Valve, mounted on the discharge piping. <b>Qty. – 01 No.</b> N.B: The relief valve is to be set at 110% of our maximum pressure requirement at the time of delivery.		
		ii. Liquid filled discharge pressure gauge having a range up to 50 Kg/ Sq.cm, with built in dampening mechanism to minimize fluctuations for accurate response to pressure changes. <b>Qty. – 01 No.</b>		
		iii. Suitably designed <b>Maintenance Free</b> Discharge Pulsation Dampener with no replaceable parts whatsoever. The working principle of the same to be forwarded along with the offer for review at our end. The maximum peak to peak pressure fluctuations should not exceed 5% of the maximum operating pressure. <b>Qty. – 01 No.</b>		
		iv. Discharge Valve: Rising Spindle Type Gate or Ball Valve with RTJ Flanged end of suitable size and pressure rating conforming to API 600 with a pair of companion RTJ flanges (weld neck) conforming to ANSI B16.5 (latest edition) complete with two no RTJ gaskets and requisite no of studs and nuts. <b>Qty. – 01 No.</b>		
		v. Bypass valve: Rising Spindle Type Gate or Ball Valve with RTJ Flanged end of suitable size and pressure rating conforming to API 600 with a pair of companion RTJ flange (weld neck) conforming to ANSI B16.5 (latest edition) complete with two no RTJ gaskets and requisite no of studs and nuts . The size		

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		of the bypass valve should be same as discharge valve. <b>Qty. – 01 No.</b>		
		vi. Check Valve of suitable size and pressure rating, full opening/full bore type conforming to API 600 specification with bolted cover, renewable seat, RTJ Flanged ends along with a pair of companion RTJ flanges (weld neck) conforming to ANSI B16.5 (latest edition) complete with two no RTJ gaskets and requisite no of studs and nuts . The size of the Check valve should be same as discharge valve. <b>Qty. – 01 No.</b>		
		vii. Drain valve of suitable size and pressure rating (to depressurize the system when carrying out maintenance of the unit). <b>Qty. – 02 Nos.</b>		
		viii. Complete set of fittings, interconnection piping and companion flanges with proper bolting, gaskets, dampener brackets, blind flanges etc. required for mounting all items mentioned above.		
		(b) Accessories in Suction lines:		
		i. Maintenance free suction stabilizer (volume bottle type). <b>Qty. – 01 No.</b>		
		ii. Pressure gauge		
		iii. Suction Valve: Flanged end Rising Spindle Type Gate/ Ball valve of suitable size and pressure rating conforming to API 600 specification, with a pair of companion flanges, gaskets nuts and bolts. <b>Qty. – 01 No.</b>		
		iv. Complete set of fittings, interconnection piping and companion flanges with proper bolting, gaskets, dampener		

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		brackets, blind flanges etc. required for mounting all items mentioned above.		
		(c) <b>NB:</b> i. <i>All the pipes valves and fitting of the discharge and suctions lines should be designed to work satisfactorily for the fluid(s) to be handled as specified above.</i> ii. <i>All the pipes valves and fitting of the discharge and suctions lines should be of same size.</i> iii. <i>All valves should be individual. <b>Combo valves are not acceptable.</b></i> iv. <i>Dampeners should be of Carbon Steel, construction built to ASME pressure vessel codes and code stamped.</i>		
<b>E. SPEED REDUCTION GEAR BOX</b>	(a) The speed reduction from the prime mover (gas engine) at its rated rpm to the desired rpm of pump shall be effected by means of a separate <b>external</b> foot mounted gearbox installed between the prime mover and the pump.			
	(b) The Gear Box should be parallel shaft speed reducer with a gear rated to designed HP from an engine at 1500 rated RPM to the pump at desired Pump RPM, with a suitable Gear ratio. The gear unit shall conform to AGMA 6010 (latest editions). The service factor should not be less than that as required by AGMA 6010 (latest editions), the same to be mentioned in the offer for evaluation at our end.			
	(c) The unit design includes cast housing, helical gear elements, anti-friction roller bearings on all shafts, and a self-contained splash lubrication system and suitable cooling system.			
<b>F. PRIME MOVER (GAS ENGINE)</b>	11. General Description:	The Prime Mover should be a four stroke, spark-ignited, stoichiometric (Air-Fuel Ratio), naturally aspirated or turbo-charged, radiator cooled Gas Engine, rated for continuous power		

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CLAUSE NO.	SPECIFICATION																												
		capable of developing the requisite horse power to power the reciprocating pump at rated load conditions.																											
	12. Conforming Standards	Rated for continuous power in accordance with ISO 3046/BS5514/IS10000 standards and capable of developing the requisite horse power to power the reciprocating pump at rated load conditions.																											
	13. Rated RPM	1500 RPM (Max)																											
	14. Limiting Compression Ration	12:1 (Max)																											
	15. Fuel	Natural Gas. <u>Composition of Fuel Gas:</u> The engine should be capable of developing required BHP as detailed in Clause F.1. above with fuel gas composition given below-  <table><tr><td><u>CONSTITUTION</u></td><td><u>Range by % VOLUME</u></td></tr><tr><td>Methane</td><td>93.50</td></tr><tr><td>Ethane</td><td>3.56</td></tr><tr><td>Propane</td><td>1.11</td></tr><tr><td>Nitrogen</td><td>0.20</td></tr><tr><td>Carbon-dioxide</td><td>0.42</td></tr><tr><td>Iso-Butane</td><td>0.23</td></tr><tr><td>N-Butane</td><td>0.37</td></tr><tr><td>Iso-Pentane</td><td>0.15</td></tr><tr><td>N-Pentane</td><td>0.11</td></tr><tr><td>Hexane+</td><td>0.35</td></tr><tr><td>Gas Gravity</td><td>0.6089</td></tr><tr><td>Gross Calorific Value</td><td>9462.8 Kcal/SCUM</td></tr></table>	<u>CONSTITUTION</u>	<u>Range by % VOLUME</u>	Methane	93.50	Ethane	3.56	Propane	1.11	Nitrogen	0.20	Carbon-dioxide	0.42	Iso-Butane	0.23	N-Butane	0.37	Iso-Pentane	0.15	N-Pentane	0.11	Hexane+	0.35	Gas Gravity	0.6089	Gross Calorific Value	9462.8 Kcal/SCUM	
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		Net Calorific Value      8706.3 Kcal/SCUM Moisture content        21.0 - 120.0 LB/MMCFT(336.0 - 1992.0 KG/MMSCM)  <b>NB:</b> Bidder has to include required gas conditioning & fuel supply system in the scope of work to suit the requirement of the engine offered.		
	16. Site Condition	The prime mover of pump should be suitable for operation at the following site condition : ➤ Maximum Temperature                    : 48 DEG C ➤ Minimum Temperature                    : 05 DEG C ➤ Maximum Humidity at 21 DEG C       : 100 % ➤ at 35 DEG C                                   : 95 % ➤ at 41 DEG C                                   : 70 % ➤ Maximum Altitude above sea level : 150 mt		
	17. BHP	The selected Gas Engine should be capable of developing the requisite horse power to power the reciprocating pump at rated load conditions at <b>1500 rpm</b> with a <b>maximum compression ratio  of 12:1</b> and rated for continuous power in accordance with ISO 3046/BS5514/IS10000 standards.  <b>NB:</b> (a) The bidder has to furnish the basis and detailed calculation wrt the selection of the offered Engine wrt the offered Pump for the specified operating conditions alongwith the offer.		

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		<i>(b) The bidder shall have to provide the undertaking that the offered engine shall develop required BHP to meet pump requirement suitably and it's overall performance shall be satisfactory with the natural fuel gas composition as specified in this tender.</i>		
	18. Aspiration	Naturally aspirated or Turbo-charged		
	19. Engine Cooling	Radiator Cooled (Blower type)		
	20. Details of Engine Sub - Systems	The engine should comprise of the following sub systems:		
	i. Cooling System	a) The cooling system of water-cooled engine should comprise of an engine mounted water pump, an industrial type heavy-duty radiator suitable for operation in ambient temperature of 48 Deg C and a blower fan.		
		b) The engine jacket water cooling system should be a closed circuit design with provision for filling, expansion, and de-aeration. The cooling pump should be driven by the engine. Coolant temperature should be internally regulated to disconnect external cooling system until operating temperature is achieved.		
		c) Radiator, Engine Mounted: Heat rejected to the engine jacket water shall be discharged to the atmosphere through a close-coupled radiator. The radiator shall be sized to cool the engine continuously while operating at full rated load and at site conditions of 48 Deg C ambient.		

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		d) Blower Fan: The radiator cooling fan shall be a blower type driven from the engine. Air shall be drawn from the engine side and exhausted through the radiator cores.		
		e) Fan and Belt guarding: The fan, fan drive, and fan belts shall be covered with punched steel mesh guarding for personnel protection.		
	ii. Air Intake System	The air intake system should comprise of a heavy duty engine air cleaner mounted on the engine with a vacuum indicator and air intake manifold with dry element requiring replacement no more frequently than 500 hours or once each year. Level of suspended particulate matter in ambient air at site is 75µg/m <sup>3</sup> (maxm.)		
	iii. Electric Starting System	The engine should have an electric starting system comprising of a Maintenance Free Heavy Duty Battery pack of reputed make having a minimum capacity 180 ampere hours with a alternator mounted on the engine for a battery charging and a 24 Volt starter, starter relay, and automatic reset circuit breaker to protect against butt engagement. Batteries shall be maintenance free, lead acid type mounted near the alternator. Batteries should be housed in a hard rubber or polypropylene case with provision for venting. Required cables should be furnished and sized to satisfy circuit requirements.  A heavy duty wooden Battery Box with suitable cover/Lid is to be supplied along with the batteries for safe installation of the batteries for operation of the Gas Engine.		

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	iv. Battery Charger	The battery charger is to be a solid-state device with adjustable float voltage control. It is to be a constant voltage device with current limit.		
	v. Ignition System	The ignition system should be a <b>Non</b> -shielded ignition comprising Altronic III/V Engine driven ignition timer, Ignition Coil, High Tension and Low Tension Wiring Harness, Transformer and Spark Plugs.		
	vi. Exhaust System	a) The exhaust system should comprise of water cooled exhaust manifold, stainless steel exhaust flexible connection, residential type exhaust silencer, spark arrestor and piping connections.		
		b) Heavy walled piping of schedule 40 with radii of 90 Deg bend at least 1½ times the pipe diameter. Piping should be installed with appropriate insulation and shielding.		
		c) Piping should be supported and braced to prevent weight or thermal growth being transferred to the engine and flexible expansion fittings provided to accommodate thermal growth.		
	vii. Fuel System	The fuel system should comprise of:		
		a) Governor: The engine governor shall be Mechanical-Hydraulic / Electronic Speed Control with EG Electro-Hydraulic actuator or Barber Coleman Equal. Speed drop shall be extremely adjustable from 0 (isochronous) to 10% from no load to full rated load.		
		b) Carburetor		

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		c) Gas pressure regulators to regulate gas pressure from 50 PSIG-20 PSIG to the required pressure at carburetor intake point. 50 PSIG- 20 PSIG fuel gas shall be available at site for taping		
		d) Gas Filter and related linkages. The gas Filtration unit should be place on a separate skid for convenience of operators. (If required)		
		e) Fuel inlet line to the engine shall be having stainless steel flexible connection to take care of vibration/shock if any, in the system.		
	viii. Lubricating System	a) The lubricating system should comprise of lubricating oil pump, lubricating oil filter with a replaceable paper element, lubricating oil cooler, lubricating oil pan and crankcase breather.		
		b) The lubricating oil pump shall be a positive displacement type that is integral with the engine and gear driven from the engine gear train. The system shall incorporate full flow filtration with bypass valve to continue lubrication in the event of filter clogging.		
		c) The bypass valve must be integral with the engine filter base of receptacle.		
	ix. Instrument Panel	The engine mounted instrument panel shall consist of a shock-mounted formed and welded enclosure. Provide Metric marked gauges as above. The instrument panel should include the following :		
		a) Lubricating Oil pressure gauge		

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		b) Lubricating oil temperature gauge		
		c) Water temperature gauge		
		d) Starting Switch		
		e) Ignition Switch		
		f) Mechanical/Digital tachometer and hour meter		
		g) Ampere meter		
	x. Engine Safety Controls	Engine mounted safety shut off/trip system for tripping the engine in the event of:		
		a) Low lubricating oil Pressure		
		b) High cooling water temperature		
		c) Engine over speed		
		d) Over crank		
	xi. Other Features	a) flexible coupling / direct coupling		
		b) flywheel with housing		
		c) lifting eyes		
		d) coupling guard if applicable		
		e) guards over belt drives ( blower fan, water pump drive pulley, timing pulley)		
		f) standard painting		
		g) suitable hand throttle control		
		h) mechanical hour meter		
		i) SAE standard rotation.		

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		N.B: Provision of guards over belt drives and couplings has become mandatory as per recommendation of OISD (Oil Industry Safety Directorate) & DGMS (Director General of Mines & Safety).		
	xii. General Notes on Engine	a) The engine shall conform to ISO : 3046 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 operation.		
		b) The engine governing should be in accordance with Class A Governing specified in BS : 3109 : 1985 ( or latest)		
		c) The bidder should submit the following information along with relevant performance rating Curves and engine product catalogue:  i. Gross HP developed at rated RPM ii. Deduction for fan and other ancillary equipment. iii. Net HP developed at rated RPM iv. Specific fuel consumption at rated power as well as at 110%, 75%, 50% and 25% of rated load.		
		d) The fuel gas system shall consists of a minimum of following components but shall not be limited to these:  i. Main line pressure regulator. ii. Pressure relief safety valve. iii. Gas scrubber tank. iv. Gas fuel filter.		

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		v. Interconnecting gas piping from main line pressure regulator to engine.		
		vi. The gas conditioning & piping should be carried out in such a way as to prevent condensate carry over to engine.		
		e) 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>G. DRIVE ARRANGEMENT</b>	i.	The drive arrangement will involve 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 reciprocating pump.		
	ii.	Suitably selected Flexible Disc with <b>taper lock bushing</b> should be incorporated to transfer power from the prime mover to the reciprocating pump through the transmission, as illustrated in the Sketch of "General Arrangement of Engine Driven Reciprocating Pumping unit".		
	iii.	All rotating parts should be covered by suitable non sparking guards.		
<b>H. PUMP PACKAGE UNITIZATION</b>	(i)	The pump set is to be supplied with all components and accessories fitted and mounted on an oilfield type three runner portable master skid as shown on the attached indicative drawing, Drawing No: FE/PROJ&TF/CKD/MP-GA/01-14 (NB: The drawing is indicative only but should not be treated as exhaustive, any addition as per the design considerations of the pump package may be incorporated by the manufacturer). The floor of the skid should be covered with anti skid steel plates. While unitizing the pump set, easy approach to various components should be kept in mind, to facilitate operational and maintenance requirements The skid should be fabricated out of properly sizes beams to withstand loading /unloading and transfer in oil field trucks.		



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	<p>The skid shall be sized to contain the entire pump and engine unit and should include the following components:</p> <ul style="list-style-type: none"> <li>a) Drip pan for cradle/fluid area of pump and packing area complete with threaded drain</li> <li>b) Dip lip for cradle / fluid area of pump and packing area</li> <li>c) Grouting holes</li> <li>d) Radiator bumper guard</li> <li>e) Exhaust tubing and supports</li> <li>f) Horizontal adjustment screws for minor adjustment</li> <li>g) Two grouting bosses on skid</li> <li>h) Interconnection piping spool pieces on suction and discharge with ancillary components</li> <li>i) Non sparking Aluminum safety guards.</li> <li>j) One set of proper size foundation bolts and nuts with each pump sets.</li> </ul> <p>(ii) <b>Anti-Corrosive Painting: The Complete Pump Package inclusive of Engine, Pump, Gear Box, Couplings, Valves, Skid and any surfaces exposed to the environment to be coated with suitable paint/coating (eg: Marine Paint) to withstand severely corrosive atmosphere caused by Sodium Chloride Solution.</b></p>		
<b>I. PRE DESPATCH INSPECTION AND TESTING</b>	(a) The pump set shall be inspected by OIL's deputed engineer at manufacturers / assembler's works/factory prior to dispatch. However, such inspection will not relieve the supplier of his responsibility to ensure that the equipment supplied conforms to the correct specifications and is free from manufacturing and all other defects.		
	(b) The supplier shall carry out full load performance test on the pump set, at duty conditions, in the presence of OIL's deputed representative.		

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	(c) <b>N.B. :</b> (i) <i>The QAP (Quality Assurance Plan) for the Pump sets shall have to be submitted to OIL for approval prior to Pre despatch inspection at supplier's works.</i> (ii) <i>Charges for carrying out the above tests at the manufacturer's facility should be included in the purview of the offer. However, cost of travelling, boarding, lodging of OIL's engineers will be to OIL's account.</i>			
	(d) A draft copy of the composite operation manual of the complete pump packages including control panel shall be submitted to representative of OIL during pre-despatch Inspection at supplier's works for approval. Three (03) copies of the approved copy of the composite operation manual to be supplied along with the documents as mentioned under Clause J.4			
<b>J. CERTIFICATES AND DOCUMENTS TO BE FORWARDED</b>	1. Documents should be forwarded along with the quotations:	a) Product line catalogue, specifying materials of construction and constructional features of the offered pump and technical literatures of all ancillary equipment.		
		b) Performance chart of the piston pump including all technical calculations such as hydraulic horse power, volumetric efficiency, mechanical efficiency, RPM, gear ratio, maximum piston load, NPSH requirement, etc.		
		c) Detail calculation to justify that BHP of the offered prime mover engine is suitable to meet the pumping requirement as specified in the tender. The power losses or mechanical efficiency of each component of the drive system such as coupling, gearbox etc. are to be mentioned clearly.		
	2. The following documents shall have to be forwarded within a	a) A foundation diagram for the complete pump set indicating the static and dynamic loads of the package.		

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	month of issue of LOI or placement of firm order	b) Pump Package Unitization plan/ drawing.		
	3. Material test (MOC) certificate of the fluid end components and power end components must be forwarded along with the pre-despatch inspection notice from supplier.			
	4. The following documents must be forwarded along with the supply of equipment.	a) Certified test results b) Certificate of hydrostatic testing c) Manufacturers certificate of authenticity d) Certificate of test / conformance of pump and associated ancillaries like relief valves, pressure gauges, dampeners, Flexible Metallic braided hose etc. e) Two sets of operation and maintenance manuals including trouble shooting, parts catalogue of pump, engine, gearbox and all other accessory equipment for each set. f) Three (03) sets of composite operational manual per pump set for the complete pump package including control panel consist of clear-cut simple instruction for start, stop, restart, significance of various display in the control panel, and negotiation of alarms etc.		
	<b>NOTE:</b> All the above mentioned document Under Clause J.4 shall have to be packed separately with a packing list and prominently labeled with OIL's Purchase order No:_____ and to be dispatched to:  HEAD- FIELD ENGINEERING OIL INDIA LIMITED DULIAJAN- 786602			

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	ASSAM, INDIA		
<b>K. INSTALLATION &amp; COMMISSIONING</b>	a) <b>Installation/commissioning charges should be quoted separately which shall be considered for evaluation of the offers.</b> These charges should include 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. No accommodation of Installation & Commissioning personnel shall be provided by OIL. Only local transportation shall be provided by OIL.		
	b) The pump set is to be supplied in assembled condition, i.e., coupled with gear box, prime mover (engine) and mounted on an oilfield type three runner portable master skid. All valves, accessories, engine exhaust silencer, Fuel Line assemblies, Batteries etc. to be fitted should be supplied separately and installed/assembled at site by the Supplier. The pump set to be so supplied that, after construction of recommended foundation and completion of necessary grouting, the pump set can be run by simply connecting the engine fuel and pump suction – discharge pipings.		
	c) 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. OIL will provide necessary statutory permits in classified areas as and when required. Arc welding / Gas Cutting services if required shall be provided by OIL.		
	d) The pump set shall be treated as commissioned only after successful completion of a trial run on available load for a minimum period of 72 hrs and on satisfactory performance shall be subsequently handed over to OIL.		
	e) Installation & Commissioning Scope:		
	1. Construction of Civil Foundation, Grouting and Erection of Shed: <b>OIL</b> 2. Installation of All Valves & Fittings supplied with the Pump Set: <b>Supplier</b>		

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CLAUSE NO.	SPECIFICATION		
	3. Installation of Engine Exhaust silencer: <b>Supplier</b> 4. Filling up of all requisite Lube Oil/Fluids etc.: <b>Supplier</b> 5. Installation of All Pump Accessories to make the pump ready for operation: <b>Supplier</b> 6. Installation of All Engine Accessories to make the Engine ready for operation: <b>Supplier</b> 7. Installation of Pump Piping Connections: <b>OIL</b> 8. Supply of Lube Oil/Fluids etc.: <b>OIL</b>		
<b>L. WARRANTY</b>	The warranty period for the engine, pump set and all ancillary equipment shall be a minimum of 18 months from the date of dispatch/shipment or 12 months from the date of commissioning, whichever is earlier.		
<b>M. SPARE PARTS AND SPECIAL TOOLS</b>	(a) A set of tools required for normal maintenance of the Pump Set shall have to be supplied along with the final supply. Any special tools required for commissioning of the pump set shall also have to be supplied. The same to be provided in a suitable tool box.		
	(b) Bidders has to provide the price, along with the part numbers of the following <i>spares [as detailed under clause nos.: M. (c) &amp; (d) below]</i> , separately, that OIL envisage shall be required for maintenance of the pump set for two years. <b>THE PRICES OF THESE SPARES SHOULD NOT BE INCLUDED IN THE QUOTED PRICE AND SHALL NOT BE CONSIDERED FOR COMMERCIAL EVALUATION OF THE OFFER.</b>  <b>NOTE:</b>  (i) <u><i>Pdf. file of the prices, along with the part numbers of the spares as detailed under clause nos.: M. (c) &amp; (d) below (which will not be considered for evaluation) can be uploaded as a part of Financial Document in GeM portal. Provision for submission of such prices have been enabled against the tender in GeM portal and HAVE TO BE SUBMITTED ALONG WITH THE PRICE BID ONLY.</i></u>		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION		
	<p><b><u>(ii) The Techno-commercial Bid/Un-priced Bid in GeM portal shall contain only the technical and commercial details except the prices. No price shall be provided in the Techno-commercial Bid/Un-Priced Bid.</u></b></p> <p><b><u>(iii) Cost of spares under clause nos.: M. (c) &amp; (d) below should not be included in the total quoted price.</u></b></p> <p><b><u>(iv) The quoted price of the spares as detailed under clause nos.: M. (c) &amp; (d) below shall remain valid for 2(two) years from the date of issue of PO. OIL at its discretion may place order for these spares at the quoted rates within the validity period.</u></b></p>		
	<p><b>(c) <u>Piston Pump</u> :</b></p> <p>i. Suction valve assembly : 6 nos. per pump</p> <p>ii. Delivery valve assembly : 6 nos. per pump</p> <p>iii. Valve cover gasket : 6 nos. per pump</p> <p>iv. Valve seat (suction) : 6 nos. per pump</p> <p>v. Valve seat (delivery) : 6 nos. per pump</p> <p>vi. Rod wiper : 6 sets per pump</p> <p>vii. Piston : 3 nos. per pump</p> <p>viii. Piston packing : 6 sets per pump</p> <p>ix. Crank pin bearing : 4 sets per pump</p>		
	<p><b>(d) <u>Gas Engine</u> :</b></p> <p>i. Spark plug : 1 set per engine</p> <p>ii. Ignition transformer : 1 set per engine</p> <p>iii. Lube oil filter element : 6 nos. per engine</p>		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION		
	iv. Set of Vee belts : 2 sets per engine v. Air filter element : 4 nos. per engine vi. Set of gaskets : 1 set per engine  <b>Note:</b> All the above mentioned Spares/ tools [as detailed under clause nos: M. (a)], shall have to be packed separately indicating OIL's Purchase Order No. with packing list and to be supplied along with the supply of the pump package addressed to :  HEAD- FIELD ENGINEERING OIL INDIA LIMITED DULIAJAN- 786602 ASSAM, INDIA		
<b>N. AFTER SALES SERVICE</b>	a) The nature of after sales service, which can be offered by the bidder during initial commissioning and also subsequently should be clearly stated.		
	b) Bidders should also confirm that spares, both regular consumable ones as well as vital / insurance spares, for engine, pump and all accessories quoted, shall be available for at least 10 years after the delivery of the material.		
<b>O. SPECIAL NOTES</b>	(1) The offered pump should be a Gas Engine Driven Horizontal Piston Type Reciprocating Pump, suitable for meeting the delivery parameters (Volume and Pressure) mentioned in the tender.		
	(2) The gas engine should be a four stroke, spark-ignited, stoichiometric(Air-Fuel Ratio), naturally aspirated or turbo-charged, radiator cooled engine, rated for continuous power in accordance with ISO 3046/BS5514/ IS10000 standards and capable of developing requisite horse power to power the reciprocating pump at rated load conditions with rated rpm 1500 and limiting compression ratio 12:1 (maximum).		
	(3) The model of pump offered as per the tender should be one that has a proven track record for continuous duty on Oil Field Mud or Chemical Salt Solution service applications for a minimum period of 3000 hours or 01 (one) year from its date of commissioning.		

**BID EVALUATION MATRIX (TECHNICAL SPECIFICATION)**  
**(TO BE FILLED IN BY BIDDER DULY SIGNED)**

	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
CLAUSE NO.	SPECIFICATION		
	In this regard satisfactory performance certificate of the offered pump model from the end user has to be enclosed along with the offer.		
	(4) The model of the offered Gas Engine for the pump set should have logged minimum 3000 hours or 01(one) year from its date of commissioning prior to the bid closing date of this tender.  In this regard satisfactory performance certificate of the offered Gas Engine model from the end user has to be enclosed along with the offer.		
	(5) The bidder shall have to provide undertaking that in case the order is placed on the bidder, the pump packages to be supplied (including major component and all its accessories), will be manufactured after the bid closing date of this tender.		



## **ANNEXURE – VIII**

### **BID EVALUATION MATRIX (BEC/BRC)**

<b>BID EVALUATION MATRIX (BEC/BRC)</b> <b>(TO BE FILLED IN BY BIDDER DULY SIGNED)</b>			
	DESCRIPTION	BIDDER'S RESPONSE (Complied / Not Complied /Deviation/Not Applicable)	TO BE FILLED BY THE BIDDER  Relevant Location in their Bid to support the remarks / compliance  (Reference of Document name / Serial number / Page number of bid for documentary evidence)
<b>A</b>	<b>TECHNICAL</b>		
<b>1.0</b>	The bidder should be an OEM of pump or authorized dealer of OEM of pump or an OEM (of pump) authorized assembler of pump sets. Bidder to furnish valid documentary evidence in this regard. In all cases the bidder has to purchase the engine from an OEM of Engine or their Authorized Dealer. Undertaking from the bidder in this regard must be enclosed with the offer.		
<b>2.0</b>	If the bidder is an OEM (of pump) recommended assembler of pump sets, he must purchase the pump from OEM or their authorized dealer. Undertaking from the bidder in this regard must be enclosed with the offer.		
<b>3.0</b>	<b>Bidders should have the experience of successfully executing at least 01(one) SIMILAR ORDER of value Rs. 94,89,375.00 (Rupees Ninety Four Lakh Eighty Nine Thousand Three Hundred Seventy Five) Only in preceding 5(five) years from the Original Bid Closing Date of the tender.</b>		
<b>3.0(i)</b>	<b>SIMILAR ORDER above means successful supply &amp; commissioning of reciprocating horizontal piston pumps used for handling Oil Field Muds or Chemical Salt Solutions of Capacity minimum 90 KLPH or above in any of the following:</b> <ul style="list-style-type: none"> <li>a) Central/State Govt. Organization</li> <li>b) Public Sector Undertaking</li> <li>c) Public Limited Companies.</li> </ul>		

<b>3.0(ii)</b>	<p>The bidder shall submit following documents in support of his previous supply experience as applicable -</p> <ul style="list-style-type: none"> <li>a) Copy(ies) of Purchase Order(s) / Contract document(s) and</li> <li>b) Any one or combination of the following documents that confirms the successful execution of each of the purchase order(s) / contract(s) –</li> </ul> <ul style="list-style-type: none"> <li>- Completion report / performance certified from the clients,</li> <li>- Bill of lading.</li> <li>- Delivery challan / invoice etc.</li> <li>- Any other documentary evidence that can substantiate the successful execution of each of the Purchase Order(s) / contract(s) cited above.</li> </ul>		
<b>3.0(iii)</b>	If the prospective bidder is executing SIMILAR work which is still running and the contract value executed as on the original bid closing date is equal to or more than the minimum prescribed value in the BEC/BRC, such experience will also be taken into consideration provided that the bidder has submitted satisfactory work execution certificate issued by end user.		
<b>3.0(iv)</b>	SIMILAR work executed by a bidder for its own organization/subsidiary will not be considered as experience for the purpose of meeting BRC.		
<b>4.0</b>	<p><b>Delivery Period:</b> Delivery to be completed within 180 days from the date of issue of PO. The date of receipt of materials at site shall be considered as the date of delivery. Installation &amp; Commissioning of the pump must be completed within 45 days from the receipt of site clearance from OIL.</p> <p>Bids submitted by Bidders quoting delivery period more than the abovementioned duration shall not be accepted. Bidders must categorically confirm the delivery period in their Technical Bid.</p>		
<b>B</b>	<b>FINANCIAL</b>		
<b>1.0</b>	The bidder shall have an annual financial turnover of minimum <b>INR 94,89,375.00</b> during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender.		
<b>2.0</b>	"Net Worth" of the bidder should be positive for the financial/accounting year just preceding to the original bid closing date of the tender.		
<b>3.0</b>	Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying <b>(PROFORMA – A)</b> that 'the balance sheet/Financial Statements for the financial year (As the case may be) has actually not been audited so far'.		

<b>3.0</b>	<p><b>Note:</b></p> <p>a) For proof of Annual Turnover &amp; Net worth any one of the following document must be submitted along with the bid:-</p> <p style="padding-left: 40px;">i) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover &amp; Net worth as per format prescribed in <b>PROFORMA - B</b>.</p> <p style="text-align: center;">OR</p> <p style="padding-left: 40px;">ii) Audited Balance Sheet along with Profit &amp; Loss account.</p> <p>b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.</p>		
<b>4.0</b>	In case the Audited Balance Sheet and Profit & Loss Account submitted along with the bid are in currencies other than INR or US\$, the bidder shall have to convert the figures in equivalent INR or US\$ considering the prevailing conversion rate on the date of Balance Sheet and Profit & Loss Account. A CA certificate is to be submitted by the bidder regarding converted figures in equivalent INR or US\$.		
<b>5.0</b>	<p>In case the Bidder is subsidiary company (should be 100% owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ultimate parent/holding company, then following documents need to be submitted:</p> <p>(i) Turnover of the parent/ultimate parent/holding company should be in line with Para B (1.0) above.</p> <p>(ii) Net Worth of the parent/ultimate parent/holding company should be positive in line with Para B (2.0) above</p> <p>(iii) Corporate Guarantee (<b>PROFORMA - C</b>) on parent/ultimate parent/holding company's company letter head signed by an authorized official undertaking that they would financially support their wholly owned subsidiary company for executing the project/job in case the same is awarded to them.</p> <p>(iv) Documents to substantiate that the bidder is as 100% subsidiary of the parent/ultimate parent/holding company.</p>		

### CHECKLIST

S/No.	CHECKPOINT	YES/NO	REMARKS
<b>1.0</b>	Whether agreed to the tender warranty clause of the tender?		
<b>2.0</b>	Whether quoted a firm delivery period as per the tender requirement?		
<b>3.0</b>	Whether confirmed to submit PBG as asked for in tender?		
<b>4.0</b>	Whether submitted Integrity Pact as per <b>PROFORMA – D?</b>		
<b>5.0</b>	Whether quoted as MSE unit? If yes, whether necessary document submitted?		

<b>6.0</b>	Whether percentage of Local Content declared in the bid and necessary document in this regard submitted. Refer clause no. 12.0 under Annexure – VI (General Notes to Bidders).		
<b>7.0</b>	If yes to 6.0 above, please also indicate the percentage of Local content under Remarks here.		
<b>8.0</b>	<p>Bidder to categorically confirm under which policy i.e. PP-LC or MSE, they want to avail the benefit and to submit requisite document/certificate in support to avail this benefit. The bids will be evaluated based on their declaration. Tenders involving eligible/qualified MSME Vendors as well as LC Vendors, preference regarding placement of order shall be accorded to MSME Vendors in line with Public Procurement Policy over PP-LC Policy.</p> <p>Whether indicated under which policy i.e. PP-LC or MSE, the benefit/purchase preference has been opted in the bid? Please mention the name of the policy opted under Remarks here.</p>		
<b>9.0</b>	<p>Ministry of Finance of Govt. of India, Department of Expenditure, Public procurement Division vide office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020(order-Public Procurement no.1) has proclaimed the insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 regarding restrictions on procurement from a bidder of a country which shares a land border with India on the grounds of defence of India on matters directly or indirectly related thereto including national security. Bidders are requested to take note of the office memorandum and submit their offers accordingly, wherever applicable.</p> <p>In this regard, bidders must submit duly sealed &amp; signed undertaking as per format provided vide, <b>PROFORMA - E</b> along with the technical bid. Whether uploaded along with the bid?</p>		
<b>10.0</b>	Whether indicated the country of origin for the items quoted? Please mention the “Country of origin” under Remarks here.		