



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

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FORWARDING LETTER

Tender No & Date : **SKI9150P16** **Date: 03.11.2015**

Tender Fee : **Rs 1,000.00**

Bid Security Amount : **Rs 16,500.00**

Bidding Type : **Single Stage Two Bid**

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

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Performance Guarantee : Applicable

Integrity Pact : Applicable

Delivery Required : **At DULIAJAN, ASSAM**

OIL invites Bids for **Supply, Installation & Commissioning of 1 (one) no. Skid mounted Diesel Engine driven Fire (Drenching) pump set, Capacity: 410 KLPH as per Annexure II** through its E-Procurement site. The bidding documents and other terms and conditions are available at Booklet No. MM/CALCUTTA/E-01/2010. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.

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

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

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

SL.NO.	MATERIAL DESCRIPTION.	QUANTITY	UNIT
10	Skid mounted Diesel Engine driven Fire (Drenching) pump set, Capacity: 410 KLPH. (Details as per Annexure-II)	1	NO.

The tender will be governed by:

- a) "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).
- b) Technical specifications with BEC/BRC and Qty. as per **ANNEXURE II** .
- c) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area - > Tender Documents.
- d) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.
- e) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).
- f) Bidder are advised to fill up the Technical bid **CHECK LIST** and **RESPONSE SHEET** given in MS excel format in Technical RFx -> External Area - > Tender Documents. The above filled up document to be uploaded in the **Technical RFX** Response.

Special Note:

1.0 General Qualification Criteria:

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

- a) **Bidder should have experience of successfully executing similar order for at least **Rs 4.95 Lakhs** during last 3 years as on the Bid Closing Date.**

b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than **Rs 16.50 Lakhs.**

- 2.0 Application showing full address / e-mail address with Tender fee (non-refundable) of ` 1000.00 per tender (excepting PSU and SSI units registered with NSIC) by Demand Draft in favour of M/s. Oil India Limited payable at Kolkata and to be sent to Head-Calcutta Branch, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001. Application shall be accepted only upto one week prior to Bid Closing date. The envelope containing the application for participation should clearly indicate “REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO **SKI9150P16 dated 03.11.2015**” for easy identification and timely issue of authorisation. On receipt of requisite tender fee, USER_ID and initial PASSWORD will be communicated to the bidder (through-e-mail) and will be allowed to participate in the tender through OIL’s e-Procurement portal. No physical tender documents will be provided. USER_ID AND INITIAL PASSWORD WILL BE ISSUED TILL ONE WEEK PRIOR TO THE BID CLOSING DATE.

Alternatively, applicants already having User ID & Password for OIL’s e-portal can pay the requisite tender fee and bid security against this tender through the online payment gateway.

On receipt of request from applicants who do not have USER_ID and initial PASSWORD, it will be communicated to the bidder (through-e-mail) and will be allowed to participate in the tender through OIL’s e-Procurement portal on payment of requisite tender fees. No physical tender documents will be provided. USER_ID AND INITIAL PASSWORD WILL BE ISSUED TILL ONE WEEK PRIOR TO THE BID CLOSING DATE.

PSU’s and SSI units registered with NSIC claiming exemption from payment of tender fee should submit their request with all credentials at least 7 days prior to bid closing date for participation in the tender

- 3.0 Please note that all tender forms and supporting documents are to be submitted through OIL’s e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with Tender no. and Due date to **Head-Calcutta Branch, Oil India Limited, 4, India Exchange Place, Kolkata – 700 001** only on or before the Bid Closing Date and Time mentioned in the Tender.

a) Original Bid Security

b) Detailed Catalogue (if any)

c) Any other document required to be submitted in original as per tender requirement

All documents submitted in physical form should be signed on all pages by the authorised signatory of the bidder and to be submitted in triplicate

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

- 5.0 All the Bids must be Digitally Signed using “Class 3” digital certificate (e-commerce application) with organisation name as per Indian IT Act obtained from the licensed

Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

- 6.0 Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
- 7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
- 8.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed Annexure-II. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria contradict the Clauses of the tender and / or "General Terms & Conditions" as per Booklet No. MM/CALCUTTA/E-01/2010 for E procurement (LCB Tenders) to General Terms and Conditions for Indigenous E-Tender elsewhere, those in the BEC / BRC shall prevail.
- 9.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
10. Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

NOTE:

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

Yours Faithfully,

Sd-
(G. C. Sarma)
SMM(P)
For Head-Calcutta Branch



OIL INDIA LIMITED
(A Government of India Enterprise)
4, India Exchange Place, 4th floor,
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West Bengal (India)

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ANNEXURE-II

Tender No& Date : SKI9150P16 /04

Dated : 03.11.2015

OIL INDIA LIMITED invites Indigenous tenders for items detailed below:

TECHNICAL SPECIFICATIONS WITH QUANTITY

SI No. & MATERIAL CODE NO.	MATERIAL DESCRIPTION.	QUANTITY	UNIT
10 ----- 0C000197	Skid mounted Diesel Engine driven Fire (Drenching) pump set, Capacity: 410 KLPH.	1	NO.
20	INSTALLATION & COMMISSIONING	01	AU

Details Specification for Item 10:-

A. PUMP	1. Make	To be indicated by the supplier
	2. Model	To be indicated by the supplier
	3. Pump Type	Horizontal split casing
	4. No. of Stage	Single
	5. Pump should confirm to	IS 6595(Part-2) specification - latest edition
	6. Pump performance and Testing	As per IS:6595 (Part-2)/IS: 9137(Latest Edition)
	7. Capacity	410 kls / hr.
	8. Head	104 m of liquid column
	9. Liquid to be handled	Water of Specific Gravity 1.0
	10. Duty	Continuous
	11. Speed	1500 RPM
	12. Application	Fire Fighting /Drenching
	13. Negative Suction Head	4 m
	14. Total Head	104 m of liquid column
	15. Efficiency	70% (minimum)
	16. Bidder to Furnish the following information	(a) At Duty Point:
		I. Total Head
		II. Discharge
		III. Efficiency
		IV. Pump Speed
		V. BkW / BHP
		VI. NPSH
		(b) At 1.5 times discharge
		I. Total Head
		II. Discharge
		III. Efficiency
		IV. Pump Speed
		V. BkW / BHP
		VI. NPSH
	17. Suction Size	To be indicated by the supplier
	18. Delivery Size	To be indicated by the supplier
	19. Suction and delivery end	Flanged end. Must be supplied along with companion flanges with necessary nuts and bolts.
	20. Shaft Sealing	By gland packing
	21. Impeller design	Should be such that delivery pressure of 10 kg/sq.cm.is obtained at duty point even with 4m negative suction head
	22. Constructional Features	I. Casing :IS 210, Gr.- FG 220 or Better
		II. Impeller, Neck Rings

		:BR IS 318
		III. Sleeves & Nut :BR IS 318 LTB-2/LG-2
		IV. Gland & Logging Rings :BR IS 318 GR2
		V. Pump Shaft :EN-8/C-40/SS410
		VI. Packing :GRAPHITE COTTON
		VII. Bearing :Heavy Duty, grease lubricated, antifriction
		Notes:
		a) The material of construction of the Pump body, Suction, Delivery and intermediate parts should be Close Grained Cast Iron / Cast steel.
		b) The material of construction of the impeller should be Stainless Steel or, Bronze. The impeller should be fully shrouded and dynamically balanced for smooth running.
		c) The material of construction of the shaft should be Stainless Steel.
		d) The material of construction of the shaft sleeve should be Stainless Steel.
		e) The material of construction of the casing Ring should be Bronze.
		f) The material of construction of the Gland & Gland nuts should be Cast Iron.
		g) The pump must be supported by Heavy Duty Bearings and Grease Cups should be provided for lubrication.
	23. Accessories to be supplied along with the pump set	I. Pressure gauge (0 to 25 KG/sq. cm.) Qty. – - Total 2 nos.

		II. Non-return valve in pump delivery line (01 No) along with matching companion flanges and necessary nut and bolts.
		III. Matching companion flanges with nuts, bolts and gaskets for suction and delivery ends of the pump.
	24. Notes on Pump	I. Pump should be capable of delivering 150% of rated discharge with a minimum of 65% of rated head.
		II. Pump should be suitable for speed mentioned (1500 RPM).
		III. Shut-off head should not be more than 120% of rated head.
		IV. Impeller design should be such that delivery pressure of 10 kg / sq. cm. is obtained even with 4 m negative suction.
	B. ENGINE	1. Make
		2. Model
		3. Type
		4. Conforming Standards
		5. Duty
		6. Fuel
		7. Site Conditions
		To be indicated by the supplier
		To be indicated by the supplier
		Four stroke cycle, in-line multi cylinder Diesel Engine.
		ISO 3046/ BS 5514 / IS 10000 specifications -latest edition
		Continuous
		HSD conforming to IS:1593:1982 and having following specifications : Cetane Number : 42.5 Gross Calorific Value : 19480 BTU / CFT
		Maximum Temperature 50 deg C Minimum Temperature 05 deg C Maximum Relative Humidity at 21 deg C -100 % 35 deg C -95 %

		41 deg C -70 % Maximum Altitude above mean sea level: 150 M
	8. Compression Ratio	To be specified by the bidder
	9. RPM	1500
	10. HP	The engine should be capable of developing a net minimum Brake Horse Power of 162 HP considering all the deductions and losses. Note: 1. The engine should be capable of developing 10% more power than the net minimum BHP requirement of the Pump input when running at rated RPM at the duty condition specified above and at site conditions as specified in point E.7. 2. The engine should be rated for continuous power with an overload power rating of 110% of the continuous power corresponding to engine application for a period of 1 hr. within a period of 12 hrs of operation. 3. NET H.P. Calculation for selecting the Prime Mover for the offered Pump considering all the losses should be forwarded along with the offer.
	11. Aspiration	Naturally aspirated/turbocharged (single stage turbo charging)
	12. Cooling	Radiator cooled (Blower Type)
	13. The Engine should comprise of the following sub systems	
	a) COOLING SYSTEM	i. Engine driven fresh water pump # Engine mounted.
		ii. Heavy duty radiator (having capacity at least 20% in excess of total heat rejection of the engine) with Blower fan.
		iii. Thermostat installed in Engine coolant outlet.
		iv. Corrosion inhibitor.

	b) AIR INTAKE SYSTEM	v. Spin-on filter for coolant.
		i. Air intake manifold - Engine mounted.
		ii. Dry type Intake Air filter - Engine mounted.
	c) EXHAUST SYSTEM	iii. Vacuum Indicator - Mounted on Intake Piping.
		i. Turbocharger :Engine mounted if engine is turbocharged
		ii. Water cooled exhaust manifold.
		iii. Exhaust Silencer : Residential type with Spark arrester
		iv. Flexible connection and related piping.
	d) FUEL SYSTEM	i. Fuel pump.
		ii. Fuel Filter : Simplex type, paper element-Engine mounted.
		iii. Mechanical Hydraulic Governor.
		iv. Fuel Injectors.
		v. Wire braided hoses between filter and fuel pump.
		vi. Wire braided flexible hoses for fuel supply and return to Diesel Tank.
		vii. Check (non-return) valves in Fuel supply and Drain lines.
		viii. Fuel tank complete with level gauge, drain valve, air vent, and inlet and outlet connection. The fuel tank should be large enough to hold fuel for at least 8 hours continuous operation of the engine at full load and should be mounted within 3 metres of the engine. The outlet level of the Fuel Tank should be at least 0.8M above the Fuel Pump. All necessary fuel pipes (tank outlet, return etc) to be

	e) LUBRICATING SYSTEM	supplied .
		i. Lubricating Oil Sump.
		ii. Engine Mounted Lube Oil Pump- Gear Driven.
		iii. Engine Mounted Lubricating Oil Cooler : Water Cooled- integral with Engine Coolant circuit.
		iv. Lubricating Oil filter-Simplex Type Paper Element # Engine Mounted
		v. Oil Filter Tube with Cap and Lube Oil Dipstick Oil Level Check-Engine Mounted.
	f) ENGINE STARTING SYSTEM	i. Non-shield type Electrical 24 V DC starter, Make: LUCAS-TVS / Delco Remy.
		ii. Alternator for battery charging, Make: LUCAS TVS / Delco Remy.
		iii. Battery shall be sealed maintenance free, lead acid type, battery should be housed in a hard rubber or polypropylene case with provision for venting. Required cables should be furnished and length of cable should be sufficient for connecting battery terminals to the starter of the engine. No separate battery charger is required.
		iv. Charging system consisting of Alternator, maintenance free battery, ammeter, all associated electrical wirings.
	g) ENGINE INSTRUMENT PANEL	i. Lub Oil pressure indicator.
		ii. Water Temperature indicator.
		iii. Lub Oil temperature

		indicator.
		iv. Tachometer and Hour Meter.
		v. Starting Switch with key.
		vi. Push button switch.
		vii. Ammeter.
		viii. Emergency Shut down knob
	h) AUTO CONTROL PANEL FOR BATTERY CHARGING	Auto control panel for automatic charging of batteries during idle condition (No running condition of engine) and also Auto off during running condition of engine.
	i) SAFETY CONTROLS	i. Low Lub oil pressure.
		ii. High water temperature.
		iii. Over speed.
	j) OTHER FEATURES	i. Viscous Vibration dampener.
		ii. Suitable clutch to transfer power from the engine.
		iii. Flywheel suitable for the selected Clutch PTO.
		iv. Flywheel Housing.
		v. Front and rear engine support.
		vi. Lifting eyes.
		vii. Crank Case Breather.
		viii. SAE standard rotation.
		ix. Suitable Hand Throttle Control.
		x. Non sparking coupling guards over blower fan belt drive and water pump belt drive, charging alternator drive pulley and timing pulley.
		xi. Non-return valve in each drenching pump delivery line (total 2 nos. NRV for 2 nos pump set).
		xii. Flexible/direct coupling.
		xiii. Suction and Delivery Pressure Gauge
	14. Notes on Engine	i. The bidder should submit the following information

		<p>along with relevant performance rating curves and engine product catalogue :</p> <p>a) Gross HP developed at rated RPM.</p> <p>b) Deduction for blower fan and other ancillary equipment.</p> <p>c) Net HP developed at rated RPM.</p> <p>d) Specific fuel consumption at rated power as well as 110%, 75% and 50% of rated load.</p>
		<p>ii. The engine shall be tested at manufacturer's works and relevant test certificate in this regard shall be submitted to OIL. OIL may if felt necessary, depute representative to oversee the testing of the engine at manufacturer's works.</p>
C. Drive Arrangement	<p>i. The drive arrangement will involve flow of prime mover power through a flywheel mounted clutch PTO to the driving end coupling of the pump. Bidder to provide the following information:</p> <p>a) Make of Clutch PTO</p> <p>b) Model of Clutch PTO</p> <p>c) Basis of selection of the offered Clutch PTO</p>	
	<p>ii. Suitably selected Flexible Disc / Grid Member / Pin Bush type Couplings should be incorporated to transfer power from the prime mover to the pump. Bidder to provide the following information:</p> <p>a) Type of offered Couplings</p> <p>b) Make & Model of offered Couplings</p>	
	<p>iii. All rotating parts should be covered by suitable non sparking guards.</p>	
D. Pump Package Unitization	<p>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. While unitizing the pump set, easy approach to various components for maintenance aspects should be kept in mind. The floor of the skid should be covered with anti skid steel plates. The skid should be</p>	

	<p>fabricated out of properly sized beams to withstand loading/unloading and transfer in oil field trucks. The size of the skid should be adequate enough to provide for sufficient working space in and around the pump set. Suitable strong hook bolts should be provided with the pump and engine to take out pump and engine individually and for transferring the same to Workshops for maintenance/overhauling. While unitizing the pump set, for taking out pump and engine for major overhauling or for maintenance of various components, there should be availability of necessary space for easy approach. 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"> a) Drip pan for cradle/fluid area of pump and packing area complete with threaded drain b) Dip lip for cradle / fluid area of pump and packing area c) Grouting holes d) Radiator bumper guard e) Exhaust tubing and supports f) Horizontal adjustment screws for minor adjustment g) Two grouting bosses on skid h) Interconnection piping spool pieces on suction and discharge with ancillary components i) Non sparking Aluminum safety guards on all rotating elements and should be suitably anchored to the oil field skid. j) One set of proper size foundation bolts and nuts with each pump sets. The foundation Bolt for the skid is to be in accordance with ASTM #A193 and nut as per ASTM # A193. <p>ii. The complete package to be painted with Fire Red Paint (Shade no. 536 as per IS-5). Paint / finish specifications shall consist of wire brushing structural pieces and piping, solvent cleaning of components, one coat of red oxide alkyd primer 2.0 to 2.5 mils dry film thickness. The top coat shall be one coat of Fire Red Paint (Shade no. 536 as per IS-5) 1.0 to 2.0 mils dry film thickness.</p> <p>NOTE: No drawing(s) of bidder / supplier wrt the design of the pump package shall be approved / certified by OIL, since the onus of designing, unitizing and supplying of the pump package as per the specifications of this NIT lies solely on the bidder / supplier.</p>
<p>E. PRE DESPATCH INSPECTION AND TESTING</p>	<p>(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</p>

	<p>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.</p> <p>(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 .</p> <p>(c) N.B. : (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. (ii) Charges for carrying out the above tests at the manufacturer's facility should be included in the purview of the offer. However, cost of travelling, boarding, lodging of OIL's engineers will be to OIL's account.</p> <p>(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 I.4.</p>	<p>Note: The pre despatch inspection and testing of the pump package(s) shall be carried out by OIL <i>only</i> in COMPLETE UNITIZED CONDITION as per the specifications of the NIT. No piecemeal Inspection and Testing shall be carried out individually for the pump and the engine. Only fully unitized pump package (ie: both the pump and the engine that are to be finally shipped in unitized condition) should be offered for Pre Despatch Inspection and Testing.</p>
<p>F. CERTIFICATES AND DOCUMENTS TO BE FORWARDED</p>	<p>1. Documents should be forwarded along with the quotations:</p>	<p>a) Performance chart/characteristic/graph of the centrifugal pump indicating capacity, head, efficiency, size of impeller etc.</p> <p>b) All technical calculations for NPSH requirement etc.</p> <p>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 etc. are to be</p>

		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 pump 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 valves, pressure gauges etc. e) Two sets of operation and maintenance manuals including trouble shooting, parts catalogue of pump, engine 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 consisting of clear cut simple instruction for start, stop, restart , significance of various display in the control panel and negotiation of alarms etc. NB: The draft copy of the composite operation manual shall have to be submitted to representative of OIL during pre-despatch Inspection at supplier's works for approval. The

		approved copy to be forwarded along with the supply please.
	<p>NOTE: All the above mentioned document Under Clause I.4 shall have to be packed separately with a packing list and prominently labeled with OIL's Purchase order No:_____ and to be dispatched to: To, HEAD- FIELD ENGINEERING OIL INDIA LIMITED DULIAJAN- 786602 ASSAM, INDIA</p>	
G. PACKING AND TRANSPORTATION	1. The pump set(s) are to be dispatched in unitized condition mounted on the skid.	
	2. During transportation, unitized pump/engine sets are to be suitably packed to avoid transit damage or water ingress. Packing should be sufficiently robust to withstand rough handling during transit. All items should have their respective identification tag and should be suitably packed to provide ease of handling / storage and offer maximum protection during transit.	
	3. Crates and boxes should have a list secured to the exterior wherein the items contained inside should be mentioned in addition to a duplicate list inside. The sling points on the crates should be properly indicated. Internal parts should be sprayed with a rust inhibitor and all openings should be covered with masking tapes to prevent ingress of water.	
	4. Manuals / packing cases containing electrical equipment should be lined with water proof material.	
H. INSTALLATION & COMMISSIONING	1. The pump set is to be supplied in assembled condition, ie: coupled with prime mover (engine) and all valves , accessories , engine exhaust silencer etc fitted and mounted on an oilfield type three runner portable master skid.	
	2. Installation and Commissioning of the Pump set shall be carried out by the bidder in the presence of OIL representatives at its fields at Duliajan, Assam (India). Services of qualified and competent personnel from equipment manufacturer is essential during installation and commissioning of the pump sets. Only competent service personnel shall be engaged for installation, testing and commissioning of pump sets.	
	3. Installation / commissioning charges should be quoted separately which shall be considered for evaluation of the offers. 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). Bidders should also confirm about installation/ commissioning in the Technical Bid.
	4. OIL Shall provide only transportation for the Commissioning Crew to and fro to Work site from OIL's office at Duliajan. No lodging shall be provided by OIL to the Commissioning Crew.
	5. All necessary Civil Work like construction of Foundation as per the Foundation Drawing supplied vide Clause No: I.2. a) above, Construction of Shed etc. shall be carried out by OIL.
	6. Placement of Pumpset on the Foundation and necessary RCC grouting shall be carried out by OIL.
	7. Placement of Fuel Tank, connections etc to the Engine etc. shall be carried out by OIL.
	8. Exhaust piping connection of the engine shall be carried out by OIL.
	9. All necessary piping work for the pump, like suction, discharge etc. shall be carried out by OIL.
	10. Necessary Fuel, Lube oil etc shall be supplied by OIL for test run during commissioning.
	11. Arc welding / Gas Cutting services if required shall be provided by OIL.
	12. OIL will provide necessary statutory permits in classified areas as and when required.
	13. The pump set shall be treated as commissioned only after successful completion of a trial run on available load and on satisfactory performance, shall be subsequently handed over to OIL.
I. 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.
J. AFTER SALES SERVICE	<p>1. The bidder should ensure after sales service during initial commissioning and also subsequently.</p> <p>2. 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 pump package.</p> <p>3. The bidder must undertake the pump-engine set to be supplied will not be obsolete for next ten (10) years and provision for supplying the spares to be continued.</p>
K. SPARE PARTS AND SPECIAL TOOLS	1. Bidders have to provide the price, along with the part numbers, serial no, normal delivery lead time of the spares and special tools that will be required for maintenance of the pump/ engine sets for two years

	<p>along with the offers. Spare parts and special tools should be properly tagged and coded so that later identification as to intended equipment usage will be facilitated. The cost of two years spares and special tools thus provided will be considered for evaluation of bid. The spare parts and special tools mentioned above to be supplied along with the supply.</p>
	<p>2. Insurance spares of the pump / engine and accessories.(Cost of these spares shall however not be considered during commercial evaluation of the offer).</p>
	<p>Note: All the above mentioned Spares/ tools 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 packages addressed to :</p> <p>HEAD- FIELD ENGINEERING OIL INDIA LIMITED DULIAJAN- 786602 ASSAM, INDIA</p>
L. DATA SHEETS	i. DATA SHEET FOR PUMP
	1.0 MAKE
	2.0 MODEL
	3.0 NUMBER OF STAGE
	4.0 RATED SPEED
	5.0 DISCHARGE CAPACITY
	6.0 DISCHARGE PRESSURE / HEAD
	7.0 TYPE
	8.0 SERVICE
	9.0 NEGATIVE SUCTION HEAD
	10.0 EFFICIENCY
	11.0 IMPELLER DIAMETER
	12.0 BEARING TYPE
	13.0 IMPELLER MOUNTING
	14.0 SHAFT SEAL
	15.0 BHP / KW
	16.0 STATIC LOAD
	17.0 DYNAMIC LOAD
	18.0 LENGTH X WIDTH X HEIGHT OF COMPLETE PUMP PACKAGE
	19.0 DRY WEIGHT
	20.0 TYPE/MAKE AND SIZE OF THE COUPLING BETWEEN CLUTCH PTO AND PUMP
	21.0 While quoting bidder should specifically mention pointwise requirement as per NIT.Simply writing "AS PER NIT" will not be acceptable.
	ii. DATA SHEET FOR ENGINE
	1.0 MAKE
	2.0 MODEL

	3.0	NUMBER OF CYLINDERS
	4.0	ASPIRATION
	5.0	DISPLACEMENT
	6.0	BORE X STROKE
	7.0	LENGTH X WIDTH X HEIGHT
	8.0	RATED SPEED
	9.0	GROSS HP AT RATED RPM
	10.0	DEDUCTION FOR FAN, ALTITUDE & TEMPERATURE
	11.0	NET HP AVAILABLE AT RATED RPM
	12.0	SPECIFIC FUEL CONSUMPTION AT I) 110% LOAD II) 100% LOAD III) 75 % LOAD IV) 50% LOAD
	13.0	LUBRICATING OIL CONSUMPTION (Ltr / hr.)
	14.0	COMPRESSION RATIO
	15.0	MAKE OF STARTER
	16.0	MAKE OF CHARGING ALTERNATOR
	17.0	MAKE & MODEL OF CLUTCH PTO

Special Terms & Conditions

1. Bidders are to submit their offer(Technical) by duly filling up the “Bidder’s Offer” column of the attached Bidder’s Response Sheet. Additional sheets may be used as and where necessary and the same to be clearly marked as: “ Annexure No: _____, for Point No_____.
2. Offers submitted in other form than filling up of the “Bidder’s Offer” column of the attached Bidder’s Response Sheet shall not be accepted for evaluation.
3. All the Annexures / Attachments are to be suitably marked and a list of the same to be submitted alongwith the offer.

BID EVALUATION CRITERIA/BID REJECTION CRITERIA

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

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

BID REJECTION CRITERIA (BRC):

The bids shall conform generally to the specifications and terms as well as conditions laid out in the tender. Bids will be rejected in case the items offered do not conform to the required parameters stipulated in the technical specifications and to the respective international/national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements will have to be met by the bids, without which, the same shall be considered as non-responsive and stand rejected.

A – TECHNICAL

1.1 The offered pump should be Centrifugal Pump, horizontal split casing, single stage with an efficiency of 70% or higher, suitable for continuous duty, with a capacity of 410 kls/hr, 100 mts head (10 kg/sq.cm)(Total Head: 104 m of liquid column) respectively.

1.2 The offered model of engine should conform to ISO 3046 / BS 5514 / IS 10000 (latest edition) specifications and should be designated for fire fighting duties by the OEM. Further, it should be rated for continuous power and must be capable of developing 10% more power than the net minimum BHP requirement of the Pump input at rated RPM at the duty conditions mentioned above.

NET H.P. Calculation for selecting the Prime Mover for the offered Pump considering the losses for Auxiliary Drive should be forwarded along with the offer. Power calculation should be made based on 150% of rated capacity and to be submitted along with the offer.

1.3 The bidder should be an Original Equipment Manufacturer (OEM) of the pump or an Authorized Dealer of OEM (pump) or an OEM (pump) approved assembler. In this

regard the bidder other than OEM of the pump must submit the valid documentary evidence from their OEM along with the offer.

1.4 If the bidder is an assembler of pump set, he must purchase the pump and the engine from OEM or, their authorized dealer. Documentary evidence in this regard must be enclosed with the offer failing which the offer will be rejected.

The assembler should indicate that necessary infra structural facilities for fabrication and load testing of the pump set are available with them. Bidders other than the OEM must furnish the following undertaking from the OEM.

"Date of manufacturer, Make, Model, Serial No., Test certificate, Literatures and Spare Parts manual of the pump and Engine will be supplied if order is placed on the bidder."

1.5 The model of pump offered should be one that has a proven track record for continuous duty (having service operation on full load for a period of 8 to 24 hours per day)for fire fighting purpose. The model should be one that has been successfully deployed for continuous duty for a minimum period of 5000 hrs. or, one year from the date of commissioning. Documentary evidence in this regard should be enclosed.

1.6 Bidder must undertake that the equipment to be supplied are not going to be obsolete for next ten (10) years from the bid closing date and provision for supplying spares of the equipment will be continued.

1.7 The bidder should have experience of successfully executing at least one similar order for **Rs 4.95 lacs** during last 03 years as on bid closing date to companies under the Government, Semi Government, Public sector undertakings or Public Limited companies. Documentary evidence as per following note must be submitted along with the offer, failing which the offer will be rejected.

Note:

1.7.1 Similar Order means Order for supply, installation & commissioning of centrifugal pump/pumpset with auto priming system of capacity 410 kl/hr (min) or above in Govt/Semi-Govt. organizations, PSU & Public Limited Company.

1.7.2 In support of documentary evidence, the bidder must submit any one of the following documents/photocopies (attested/self attested) along with the bid.

- a) Purchase order (PO)
- b) Invoice against PO
- c) Completion certificate issued by the end-user

2.0 FINANCIAL:

2.1 The Annual financial turnover of the firm in any of the last 03 financial years or current financial year should not be less than **Rs 16.50 lacs**. In support of annual financial turnover, any one of the following documents/photocopies (self attested/attested) must be submitted along with the bid:

- ▶ A certificate issued by a practicing chartered/cost accountants firm with membership no. certifying the annual turnover and nature of business.
- ▶ Audited balance sheet and profit & loss account.

B: COMMERCIAL

- i) Bids are invited under **Single Stage Two Bid System**. Bidders shall quote accordingly under Single Stage Two Bid System. **Please note that no price details should be furnished in the Technical (i.e. Unpriced) bid.** The “Unpriced Bid” shall contain all techno-commercial details except the prices, which shall be kept blank. The “Price Bid” must contain the price schedule and the bidder’s commercial terms and conditions.
Bidder not complying with above submission procedure will be rejected.
- ii) **Bid security in the form of Demand Draft / Bank Guarantee as per format given in the LCB booklet MM/CALCUTTA/E-01/2010 of Rs 16,500.00** shall be submitted manually in sealed envelope superscribed with BID SECURITY AGAINST Tender no. **SKI9150P16 dated 03.11.2015 to Head Calcutta Branch, Oil India Limited, 4 India Exchange Place, Kolkata - 700001** only on or before the Bid Closing Date and Time mentioned in the Tender. **If bid security in ORIGINAL of above mentioned amount is not received within bid closing date , the bid submitted through electronic form will be rejected without any further consideration.**
In lieu, Bid Security of **Rs. 16,500.00** can also be paid online through our e-procurement portal as per procedure given in user manual in OIL’s e-procurement portal.
For exemption for submission of Bid Security, please refer relevant para of General Terms and Conditions vide MM/CALCUTTA/E-01/2010 for E-Procurement LCB Tenders.
The Bid Security shall be valid for 180 days more than the Bid validity, i.e., for 300 days from the date of bid opening.
- iii) Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of twelve months from the date of successful commissioning against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier’s expenses and no extra cost to OIL.
- iv) The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.
- v) Successful bidder will be required to furnish a **Performance Bank Guarantee @10%** of the order value. For exemption for submission of Performance Bank Guarantee, please refer relevant para of General Terms and Conditions vide MM / CALCUTTA / E-01 / 2010 for E – Procurement LCB Tenders. The

Performance Bank Guarantee must be valid for one year from the date of successful commissioning of the equipment or 18 months from the date of despatch whichever is earlier. Bidder must confirm the same in their bid.

Offers not complying with this clause will be rejected.

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

The Bank Guarantee should be allowed to be encashed at all branches within India.

- vi). Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.
- vii). Validity of the bid shall be minimum 120 days from the Bid Closing Date. Bids with lesser validity will be rejected.
- viii). Bids containing incorrect statement will be rejected.
- ix). All the Bids must be Digitally Signed using “Class 3” digital certificate (*e-commerce application*) as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than “Class 3” digital certificate, will be rejected.

C. GENERAL:

- i) The Compliance statement must be filled up by bidders and to be submitted/uploaded along with their bids. In case bidder takes exception to any clause of the bidding document not covered under BEC/BRC, then the Company has the discretion to load or reject the offer on account of such exception if the bidder does not withdraw/modify the deviation when/as advised by Company. The loading so done by the company will be final and binding on the bidders.
- ii) If any of the clauses in the BRC contradicts with other clauses of bidding document elsewhere, then the clauses in the BRC shall prevail.

2.0 BID EVALUATION CRITERIA (BEC):

A. TECHNICAL:

The bids conforming to the technical specifications, terms and conditions stipulated in the bidding document and considered to be responsive after subjecting to Bid Rejection Criteria (BRC) will be considered for further evaluation as per the Bid Evaluation Criteria given below.

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

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

B. COMMERCIAL:

- i) To evaluate the inter-se-ranking of the offers, Assam entry tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date.
Bidders may check this with the appropriate authority while submitting their offer.
- ii) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in to must be received on or before the dead line given by the company, failing which the offer will be summarily rejected.
- iii) To ascertain the inter-se-ranking, the comparison of the responsive bids will be made as under, subject to corrections / adjustments given herein:
 - (A) Total material cost of Main Equipment:
 - (B) Total cost of tools/tackles/accessories/mandatory spares/ repair kit for commissioning
 - (C) Total Material Cost,(A+B)
 - (D) Packing and Forwarding Charges
 - (E) Total Ex-works value, (C+D) above :
 - (F) Excise Duty including Cess
 - (G) Sales Tax, (Please indicate applicable rate of Tax)
 - (H) Total FOR Despatching station price, (E+F+G) above
 - (I) Road Transportation charges to Duliajan
 - (J) Insurance Charges @0.5% of Total For Despatching Station Value (H) above
 - (K) Assam Entry Tax
 - (L) Total FOR Duliajan value, (H+I+J+K) above
 - (M) Installation/Commissioning Charges including Service Tax, if any :
 - (N) Training Charges including Service Tax, if any :
 - (O) Grand Total value, (L+M+N)

Standard Notes:

- A. The original bid security (Amount is mentioned above and also in Basic Data of the tender in OIL's e-portal) should reach us before bid closing date and time. Bid without original Bid Security will be rejected (except for the bidders who has paid the same online). The bidders who are exempted from**

submitting the Bid Bond should attach documentary evidence in the Collaboration folder as per General Terms and conditions for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).

- B. "General Terms & Conditions" for e-Procurement as per Booklet NO. MM/CALCUTTA/E-01/2010 for E-procurement (LCB Tenders).

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