

Tender No. : DID4729L15/L3
Tender Date : 30.08.2014
Bid Closing On : 09.10.2014 at 13:00 hrs.(IST)
Bid Opening On : 09.10.2014 at 13:00 hrs.(IST)

Tender issued to following parties only:

S/no	V_Code	Vendor Name	City/Country
1	200033	LARSEN & TOUBRO LTD.	MUMBAI
2	200072	BHARAT PUMPS AND COMPRESSORS LTD.	ALLAHABAD
3	200211	STEEL & INDUSTRIAL STORES	ASSAM
4	200243	SHEW MACHINERY STORES	TINSUKIA
5	200283	GARDEN REACH SHIPBUILDERS &	KOLKATA
6	200392	RAVI BROTHERS	GUWAHATI
7	200576	BAREJA PUMPS PVT. LTD.	KOLKATA
8	200664	DEEPAK ENGINEERING CO.	KOLKATA
9	200809	IMPEX MACHINERY CORPORATION	KOLKATA
10	200885	KIRLOSKAR BROS. LTD.	PUNE
11	200932	MATHER & PLATT PUMPS LTD.	KOLKATA
12	201059	ROTO PUMPS LTD.	KOLKATA
13	201188	VENUS PUMPS & ENGG. WORKS,	KOLKATA
14	201220	V K PUMPS INDUSTRIES PVT.LTD.	MUMBAI
15	201373	EASTERN TRADE & AGENCIES	JORHAT
16	201822	RAVI & SONS	KOLKATA
17	202649	KSB PUMPS LIMITED	KOLKATA
18	202674	GOMA ENGINEERING PVT. LTD.	THANE
19	202678	KISHOR PUMPS PVT LTD.	PUNE
20	202697	SULZER PUMPS INDIA LTD,	NEW MUMBAI
21	202745	WATERTECH ENGINEERS PVT. LTD.	KOLKATA
22	202892	MATZ PUMPS PRIVATE LIMITED	AHMEDABAD
23	203117	TIRUPATI INDUSTRIAL STORES	TINSUKIA
24	203469	K.S.B. PUMPS LTD	KOLKATA
25	203525	Best & Cromptons Industries and	CHENNAI
26	204084	WPIL LTD	24 PARGANAS
27	204295	WELTEK PUMPS (P) LTD	KOLKATA
28	204566	UNITED COMMERCIAL INDUSTRIES	KOLKATA

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

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

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

Bidding Type : Single Bid (Composite Bid)

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Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
10 0C000452	<p>PUMP SPECIFICATION:</p> <p>HIGH PRESSURE MULTI/SINGLE STAGE EMD HORIZONTAL FEED WATER CENTRIFUGAL PUMP WITH MOTOR.</p> <p>A.OPERATING CONDITION/PERFORMANCE:</p> <p>1.Capacity:15 KL/Hr 2.Total Head :120 M 3.NPSH:3.1 M 4.Pump Speed (Nominal):2900 R.P.M. 5.Volt:415V 6.Pump Type:Horizontal foot mounted side suction axial discharge high pressure multi/single stage centrifugal boiler feed pump with motor 7.Pump Size (Suc X Dis):65 mm X 50 mm dia, with one pair of companion flange 8.Direction of Rotation : Clockwise looking from drive end 9.Sealing : Gland Packed 10.Liquid to be handled: Boiler feed Water 11.Specific Gravity considered:1 12.Impeller Type:Closed 13.Efficiency:0.56 14.Duty :Continuous 15.Coupling type:Flexible</p> <p>B.MATERIAL OF CONSTRUCTION FOR PUMP:</p> <p>1.Casing:Cast Iron IS 210 FG 260 2.Impeller:Cast Iron IS 210 FG 260 3.Diffuser :Cast Iron IS 210 FG 260 4.Bearing Block:Cast Iron IS 210 FG 260 5.Coupling Cast:Iron Flexible Pin and Bush type 6.Base Frame:MS Fabricated channel 7.Rest of the Parts:Suitable for above Material Specification</p> <p>MOTOR SPECIFICATION:</p>	10	NO

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	<p>The Motor for Pump shall be three phase, 415v AC, squirrel cage rotor Induction Motor with the following specifications:</p> <p>1.Voltage:Motor shall be suitable for $415 \pm 6\%$ volts, 3 Phase, 50HZ, AC supply and should withstand high voltage fluctuation.</p> <p>2.Freq.:50 Hz +- 3%</p> <p>3.RPM:To match driven equipment</p> <p>4.Power(HP)/KW:As per load requirement</p> <p>5.Duty:Continuous (S1)</p> <p>6.Type:NFLP</p> <p>7.Mounting:As per equipment design.</p> <p>8.Ambient:Max. 40°C, Min 6°C, 95% RH, Altitude-150 Mtr</p> <p>9.Earthing:Two nos. of earthing studs to be provided on both sides of the motor. Earthing system for the motor shall be as per the IS: 3043.</p> <p>10.Lifting Eye:Lifting hook(s) shall be provided for lifting the motor.</p> <p>11.Markings:Name plate details with name of manufacturer, frame size, rated voltage, rated out put, current, frequency, type of duty, class of insulation, no. of phases, speed in rpm at rated out put, degree of protection, winding connections, ambient temp, bearing sizes, lubricant, lubrication material and year of manufacture,</p> <p>12.Certificates: Test certificate of Motor for routine tests done at manufacturer's works shall be submitted with the pump unit.</p> <p>13.Guarantee: Motor shall be guaranteed for one year. Guarantee certificate shall be submitted with the supply.</p> <p>14.Make:Kirloskar/Crompton Greaves/ABB/ Alstom/Bharat Bijle/Siemens or equivalent make</p> <p>15.Frame size & make of the offered motor should be mentioned in the offer.</p> <p>ACCESSORIES</p> <p>Starter panel</p> <p>Bidder should also quote the specifications and price of the requisite starter panel, required for operating the motor. The price quoted by the bidder for this starter panel will also be considered for bid evaluation.</p> <p>SPECIFICATION OF STAR/ DELTA STARTER</p> <p>Note:The following specifications are for Star/delta starter. In case motor HP is less than 12.5 HP, DOL starter may be used; except for no. of contactors and timer, other details for DOL starter shall remain same. For motor HP 12.5 and above, star/delta starter shall be provided.</p> <p>The starter shall be placed inside safe area and hence is not required with FLP enclosure. Neutral shall not be used, as the source (generator) shall be grounded with high resistance. Hence contactor coil voltage shall be 415 V, line to line (or 240 V phase-to-phase through separate 240 V bus through transformer).</p> <p>a) ENCLOSURE AND FRAME:</p>		

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	<p>1. Self supporting, indoor, industrial type, dust and vermin proof, floor mounting automatic Star/ Delta Starter complete with stand, suitable for operation from front side. The enclosure to be made of 2.0 mm CRCA sheet steel built upon suitably sized heavy duty angle iron frame work on channel/angle iron sections (Min. 65x65x8mm angles and channels). Danger Plate shall be fixed on front and back side of the enclosure. The entire framework & the sheet-work shall be given minimum nine tank anti-rusting treatment as per IS and then powder coated in DA Grey color (paint thickness Min 50 micron). The design should be as per IS-8623, 13947, 13703, and 4237. Protection shall be as per IP-54. Height of bottom detachable cable entry gland plate shall be minimum 450 mm from ground level. Two nos. of earthing studs (min 15 mm dia) shall be provided on the bottom channels of the frame. The base channel shall have arrangement in the channel frame for securing the grouting bolts. All components shall be mounted on separate supports or DIN channel. Gland plate shall have thickness of 3.0 mm.</p> <p>2. Suitable reinforcement shall be provided in the front door sheet where MCCB handle shall be fixed for proper alignment and operation.</p> <p>3. All components used must be suitable for the environment as mentioned. All hardware should be of high tensile steel & Galvanized/ Zinc passivity. Size of spring washers & flat washers should be as per relevant IS for individual bolt.</p> <p>The size of the panel should not be more than 600mm (W) x 400mm (D) x 800mm (H). Total height of the starter including stand shall not exceed 1300 mm.</p> <p>b) INCOMER:</p> <p>1 no. sufficiently rated (for matching motor FLC, starting amps and short circuit capability), Moulded case circuit breaker with electronic (electronic/microprocessor controlled) trip unit, 3P, 415 V AC, 36kA breaking capacity with direct/extended rotary handle. The trip settings shall be adjustable: long delay (0.4-1.0 In)/short delay (1.5-10 long delay setting)/ground fault (0.1-1.0 In) with individual time settings] with separate add-on earth leakage module [with adjustable settings of 0.03-3.0 Amps and 0- 3 seconds time setting, both current and time in adjustable steps]. In place of add-on earth leakage relay, CBCT/sensing relay combination with the adjustable settings as above may also be used.</p> <p>In case of earth leakage fault the relay should trip the contactors. The CBCT core size should be such that relay should not trip during external short circuit and motor start due to core saturation.</p> <p>c) POWER CONTACTOR: 3 nos. 415V TP power contactors. AC3 current rating of each power contactor (minimum); shall be sufficiently rated for long life. Coil voltage- 415 V AC/240 VAC (phase to phase). Sufficient nos. of auxiliary contacts (including spare blocks) shall be provided with all the contactors for remote indication and control. All the</p>		

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	<p>contactors shall have same no. and type of auxiliary contact blocks. Current rating of aux contacts shall be min 10 amp AC, at 240 V AC.</p> <p>d)OVER LOAD RELAY: One no. thermal overload protection relay. Relay to provide protection against O/L (DMT), Stalling, Single phasing (based on current sensing). Push button shall be provided on the enclosure door for resetting the relay after a trip on fault.</p> <p>Make of incomer MCCB, earth leakage relay, CBCT, contactors and overload relay should preferably be same for better co-ordination. Makes- Siemens/Telemecanique (Schneider Group)/ABB/Indo-Asian/Legrand</p> <p>e)TIMER:One no. Electronic timer. Operating time: 0-18 seconds. The timer shall provide a time delay of 50-60 ms during change-over from start to delta. Make: Siemens/Schneider/ABB/Legrand.</p> <p>f)INSTRUMENTS AND INDICATING LAMPS:Panel mounted, BIS or reputed International Standard approved, three phase Digital Voltmeter, 0-500 volts and three phase Digital Ammeter 0-200 Amps with selector button for reading three phase voltage and three phase current. Both meters shall be of 96x96mm size, min. 1% accuracy and suitable for ambient conditions mentioned. Meter make: AE/Conzerv/HPL</p> <p>Indicating Lamps to indicate Supply ON for all three Phases (Colour-Red/Yellow/Blue), Motor ON (red), Motor OFF (green) and Motor TRIP (amber/yellow). All indicating lamps shall be LED type of Binay/ L&T/ Siemens make.</p> <p>Fuse holder- as required, make GE/Bussman</p> <p>HRC Fuse link cylindrical 415 VAC, 80 KA fault level- Qty. as required, make GE</p> <p>g)Bar Primary Resin Cast CTs of 200/5 ratio, 10 VA burden, class-1, conforming to IS 2705- 03 nos. CT Make: AEI/ Kappa/ Conzerv/ L&T</p> <p>h)REMOTE/LOCAL OPERATION:</p> <p>The starter control shall have remote start/stop capability (with push button station near the motor). However, one local/remote selector switch shall also be provided in the starter so that the pump can be started in local mode (from the starter panel), if required.</p> <p>One set of START/ STOP push buttons shall be mounted on the starter door for motor operation. A separate terminal block shall be provided for connecting cable of remote push button station.</p> <p>Make of push button: Siemens/ GE/ Telemecanique/ABB/L & T</p> <p>Make of Remote/Local selector switch: Kaycee/Salzer/Siemens/L & T</p> <p>i)TERMINALS: Heavy duty, tinned copper brought out terminals having rectangular section and insulating supports of GRP/DMC shall be provided for incoming and outgoing power cable connections. Sufficient</p>		

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	<p>space shall be provided in the starter panel for cable termination, dressing and connecting cable leads to the brought out terminals.</p> <p>j)POWER WIRING: All power wiring inside the panel shall be done with 1100 v grade, PVC insulated, flexible copper cable or tinned copper, PVC insulated busbars. Cable size shall be as per IS for assembled panels. For busbar the current rating shall be minimum two times the full load current for the particular bus section. All cables shall have tinned copper lugs for termination and ferrule numbers for proper identification. Tinned copper straps shall be used for termination in case of interconnection of power cable between power contactors. All hardware for power cable connections shall be suitable for the environment mentioned.</p> <p>k)CONTROL WIRING: All control wiring shall be done with 1100 v grade, single core 2.5 Sq. mm. flexible PVC insulated copper cable. All cables shall have tinned copper lugs for termination and ferrule numbers for proper identification. Control wiring and instruments shall have HRC fuses for protection. One Contactor type Auxiliary Relay shall be used in the control circuit. PBS and protective relays shall operate this relay and the aux contact of this relay shall operate the power contactors. Plug in type relay shall not be used. Current rating of aux contacts shall be min 10 amp AC. Control system voltage shall be 415 V AC. Relay Make: GE/ Telemecanique (Schneider Group)/Siemens/ABB.</p> <p>l)CABLE ENTRY: The panel shall have suitable cable entry holes on separate detachable gland plates fixed at bottom plate of the enclosure for entry of following cables:</p> <p>i)1 no. incoming cable of size 3.5 x 35 Sq.mm PVCA and 2 nos. outgoing cables of size 4 x 25 Sq.mm</p> <p>ii)2 nos. cables of size 4 x 2.5 Sq.mm PVCA for external PBS and remote indication through aux. contacts of delta contactor. All cable entries shall be blocked with knockouts.</p> <p>m)LABELLING: Designation name plates of permanent type shall be provided for all components and terminals of the starter.</p> <p>FEATURES OF THE STARTER:</p> <p>1.Starter shall have Type '2' Co-ordination, breaking capacity 50 kA at 415 V, 3Ø, 50 Hz as per Standards IEC 60947-4-1, IS: 13947 (Part 4/Sec. 1), EN 60947-4-1.</p> <p>2.Special non-deteriorating Neoprene rubber gaskets shall be provided at door.</p> <p>3.The panel doors shall have spring loaded door latches suitable for latching in one turn only. Lifting hooks shall be provided. Sufficient space shall be provided inside the enclosure for proper glanding, dressing, and maintenance of cables. Adequate space should be provided for connecting the cable leads to the brought out terminals.</p>		

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	<p>4.Works Test Certificate for routine tests as per IS-8623, 5039, 12063 (with calibrated testing equipment) and wiring diagrams should be provided along with the starter.</p> <p>5.Wiring cables to door shall be protected with heavy duty PVC spiral binding.</p> <p>6.Starter Panel door shall be earthed with copper flexible loops/ braids as per IS-3043.</p> <p>7.The starter should be properly packed to avoid ingress of rain water/ moisture and damage during the transit.</p> <p>8.The starter should be guaranteed for 18 months from the date of supply or 12 months from date of commissioning whichever is earlier.</p> <p>9.All items of the starter must be approved by IS (with latest amendments). All items shall be marked in permanent manner.</p> <p>SPARES</p> <p>A. Commissioning Spares</p> <p>The bidder shall supply all the spare parts required for installation and commissioning of the unit at OIL field installation in and around Duliajan Assam. These commissioning spares shall not be considered for evaluation of the bid.</p> <p>B. Operational spares</p> <p>Spares for 2 (Two) years normal operation of the electric motor, pump and its accessories along with price shall be quoted in the offer. Bidder shall indicate the manufacturer's Part Nos. for each part of pump, electric motor and its accessories along with the suppliers' own Part No.if any.</p> <p>C. Recommended Spares</p> <p>Over and above to the spares as mentioned in Clause B above, the bidder based on the design and his experience on the pump shall quote for recommended spares for two years of trouble free operation of the unit.</p> <p>D. The bidders must submit a written undertaking (along with the bid) that they would be able to supply all the requisite spares and consumables (including bought out items) for a minimum period of 5 (five) years from the Certified date of completion /successful field commissioning of the unit.</p> <p>Note: Price quoted against clause nos. A, B, and C above shall not be taken for bid evaluation.</p>		

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Standard Notes: (1) VALIDITY : Your offer must be valid for 75 days from the date of bid opening. Offer with inadequate validity will be rejected.

(2) The offer should be submitted in Duplicate.

(3) 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 a 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).

(4) In the event you authorize your dealer/stockist/channel partner to quote on your behalf, the dealer/stockist/channel partner while submitting bid should mention on the body of the envelope that they are submitting bid on your behalf.

In the event the dealer/stockist/channel partner do not mention the name of their OEM/principal on the body of the envelope, the offer shall be treated as unsolicited offer and will not be considered for opening.

The dealer/stockist/channel partner should take note of above while submitting bid on behalf of their OEM/principal.

(5) For order with F.O.R. Destination term, 100% payment against despatch documents will not be entertained. In this regards please refer payment terms in ANNEXURE-MM/TENDER/LP/01/06.

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

(7) Bidder must mention page no./nos. in every pages of their offer.

(8) Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

(9) Bidder should clearly mention their name and address on the outside of the envelope containing their offer.

(10) 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.

11) Materials to be delivered at OIL INDIA LIMITED,EPA,DIGBOI. The bidder should clearly mention the delivery destination in the offer.

Special Notes : SPECIAL TERMS & CONDITION:

- 1.0 Bidder shall be an OEM or an authorized dealer of OEM.**
- 2.0 In case of OEM, bidder shall have experience of supplying minimum 5 nos. of similar pumps during last three years period proceeding from the Bid closing date of this tender. Documentary evidence in this regard shall be submitted in the form of copy of PO and performance certificate from clients along with the bid for evaluation.**
- 3.0 In case of an authorized dealer of OEM, bidder shall submit valid authorization certificate form OEM in addition to the requirements mentioned in para 2.0 above.**
- 4.0 Technical literatures, product catalogue, drawings etc. shall be submitted along with the bid for evaluation.**
- 5.0 The offered Pump set shall be brand new, prime quality and guaranteed against any manufacturing / material defects for a period of 18 months from the date of dispatch or 12 months from the date of commissioning whichever is earlier.**
- 6.0 Spares shall be quoted as per the requirement mentioned in the tender.**
- 7.0 Documentation: Following documents shall be supplied along with the supply of pumps.**
 - a. Test and Warranty Certificates.**
 - b. Two copies of operation & maintenance manual with each pump set.**
 - c. Spare parts list for five years trouble free operations furnishing part no., detail description of parts, quantity requirement & periodicity of replacement.**
 - d. Drawings such as detailed Foundation Drawing of the unit, detailed Operation & Maintenance (O & M) Manual, Guarantee Certificate.**