

#### **Annexure-II**

Comment [o1]:

Other than the vendors to whom the enquiry has been issued, interested vendors who wish to participate in the tender may apply with proper credentials and other relevant details so as to reach Head-Materials, Oil India Limited, P.O. Duliajan, Dist. Dibrugarh, Assam – 786602 (e-mail : [material@oilindia.in](mailto:material@oilindia.in), Fax : 0374-2800533) within 10 days of publication of the tender on OIL's website.

The vendors must fulfill the following conditions:

- i) The party should have 03 (three) years' experience as on the Bid closing date for the same item.
- ii) The party should have received one order for at least 50% quantity in last 03 (three) years' (as on the Bid closing date) for the item from any reputed firm.
- iii) Annual turnover of the firm in any of the last 3 (three) financial years or current financial year should be more than Rs.11.80 lakhs

#### **NOTE:**

- a. The applicant must meet the above qualifying criteria for which documentary evidence should be enclosed by the applicant with the application without which tender document shall not be issued.
- b. Relevant documents in support of experience, last order and annual turnover must be submitted along with the application.
- c. Application without complete supporting document will not be considered.

**Tender No.** : DID4977L15/L3  
**Tender Date** : 25.09.2014  
**Bid Closing On** : 27.11.2014 at 13:00 hrs.(IST)  
**Bid Opening On** : 27.11.2014 at 13:00 hrs.(IST)

**Tender issued to following parties only:**

S/no	V_Code	Vendor Name	City/Country
1	200066	ATLAS COPCO (INDIA) LIMITED	KOLKATA
2	200392	RAVI BROTHERS	GUWAHATI
3	200455	ATLAS COPCO (INDIA) LIMITED	PUNE
4	200701	ELGI EQUIPMENT LTD	COIMBATORE
5	200702	ELGI EQUIPMENTS LIMITED	KOLKATA
6	200846	INTERNATIONAL COMBUSTION (I) LTD	KOLKATA
7	201292	U. D. MARKETING PVT. LTD.	KOLKATA
8	202644	AQUA ENGG. & ALLIED SERVICES PVT. L	KOLKATA
9	203651	K G KHOSLA COMPRESSOR LTD	PUNE - 411 013
10	203871	INGERSOLL-RAND INDUSTRIAL PRODUCTS	MUMBAI
11	204361	KIRLOSKAR PNEUMATIC CO. LTD.	PUNE
12	204915	ASSOCIATED CONTROLS	KOLKATA
13	207125	BURCKHARDT COMPRESSION(INDIA) PVT.	KOLKATA
14	207514	INDO-AIR COMPRESSORS PVT.LTD.	AHMEDABAD
15	207535	HALLMARK COMPRESSOR PVT.LTD.	AHMEDABAD
16	207536	INGERSOLL RAND INDIA LTD.	AHMEDABAD
17	207537	USHA COMPRESSORS PVT.LTD.	AHMEDABAD

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

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

**Tender No. & Date : DID4977L15/L3 25.09.2014**

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

**Bidding Type : Single Bid (Composite Bid)**

Bid Closing On : 27.11.2014 at 13:00 hrs. (IST)  
Bid Opening On : 27.11.2014 at 13:00 hrs. (IST)

Performance Guarantee : Not Applicable

OIL INDIA LIMITED invites Limited tenders for items detailed below:

Item No./ Mat. Code	Material Description	Quantity	UOM
<b>10</b> 0C000006	<p><b>SPECIFICATION FOR Electrical motor driven Air Compressor Unit with air dryer for Duliajan Power Station:</b></p> <p><b>Scope of supply :</b> The Compressed Plant Air System shall be complete with followings: (i) Air Compressor: 2 nos. (Electric motor driven Horizontal Tank Mounted with skid) (ii) Air Dryer (refrigerant type), Skid mounted : 1 unit (iii) Air Receiver Vertical Type Tank, skid mounted, Capacity:500Liters : 1 no (iv) 3 Stage Air Filters: 1 set (v) Pressure Gauges (vi) Pressure Switches (vii) Safety valves (viii) Motor Pulley (ix) Belt Guard (x) Manual and automatic drain valve (xi) Heat Resistant paint for air compressor, air receiver Tank &amp; Dryer</p> <p><b>A. AIR COMPRESSOR:</b></p> <p>Type: Single acting, two stages, reciprocating air compressor driven by horizontally through V belt &amp; pulley arrangement, Horizontal tank mounted with skid and with prime mover of suitable capacity electrical motor.</p> <p><b>Performance Data</b></p> <p>The piston size selected should be adequate to meet discharge pressure and actual air delivery requirements of 10 to 12 kgf/cm<sup>2</sup> and 55 to 70.0 cfm respectively.</p> <p><b>Features:</b></p>	2	NO

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>i. Dry type intake filter  ii. Copper finned intercooler tubes  iii. Forced air cooled after cooler  iv. Centrifugal un-loader  v. Horizontal air receiver  vi. Low oil Level Switch  vii. Inter stage safety valve (adjustable)  viii. Manual type drain valves</p> <p>The Air compressor should be tested as per Standard ISO 1217.</p> <p>N.B. : The air compressor is to be of reputed makes like INGERSOLL RAND / ELGI / KIRLOSKAR PNEUMATIC / ATLAS COPCO or EQUIVALENT REPUTED MAKE.</p> <p><b>B. PRIME MOVER:</b>  The Electrical Motor conforming to the specification of three phase induction motor as follows:  a) IS Code: 325-1996 (Reaffirmed-2007), or  b) IEC 34</p> <p>And as applicable with following features:</p> <p>i. Type of Motor: Non-FLP, squirrel cage, 3 phase Induction Motor.  ii. Motor Rating: As suited for the driven Air Compressor (Approximately 20 HP)  iii. Voltage: 415 Volt +/-6%  iv. Duty: Continuous (S1)  v. Ambient: Suitable for 40 deg. C max, 5 deg. C min  vi. Frequency: 50 +/- 3%Hz  vii. RPM: To match driven load  viii. Enclosure: TEFC (Totally enclosed fan cooled) / IP: 55 as per IS: 4691 of 1985  ix. Insulation class: F and temperature rise limited to Class-B  x. Mounting: Horizontal, foot mounted  xi. Type of Drive: V-Belt drive  xii. Terminal Box: Cable termination box with brought out terminals suitable for terminating 1.1 KV grade PVCA cable of size 3 x 2.5 mmsq cable. Sufficient space must be provided in the terminal box for terminating cables.  xiii. Glands: Single compression heavy duty nickel plated brass glands must be supplied with the motor.  xiv. Lifting Eye: One no. lifting hook shall be provided for lifting the motor.  xv. Earthing: Two nos. of earthing studs to be provided on both sides of the motor on opposite sides with suitably sized zinc plated &amp; passivated double nuts and spring washers. Earthing system for the motor must be as per the relevant IS codes.  xvi. Markings: As per IS: 325 -1996 (Reaffirmed in 2007)  xvii. Paint: Two coats of DA grey paint.</p>		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p><b>B.1 GENERAL NOTES ON ELECTRICAL MOTOR</b></p> <p>1) Motor shall be tested as per BIS and test certificates shall be furnished along with the supply of motors.</p> <p>2) The make of electrical motor: Crompton Greaves/ Bharat Bijlee/ Siemens/ Kirloskar Electric/ NGEF or equivalent reputed makes</p> <p><b>B.2 DETAILS OF MOTOR STARTER:</b></p> <p><b>Starter:</b> The motor must be supplied along with a Stand-alone DOL or Star-Delta starter as specified below:-</p> <p>1. The starter must be suitably designed for the application and 20 HP rating of the motor.</p> <p>2. Protection: The following minimum (but not limited to) protections shall be provided in the starter:</p> <p>a) Overload b) Single Phasing c) Short Circuit</p> <p>3. The Starter must have:</p> <p>a) Suitably rated Power contactor with minimum 4NC+4 NO auxiliary contacts, AC3 duty, of make: Siemens /L&amp;T / Telemecanique (Schneider)/GE b) START/STOP push buttons c) Suitably rated Manual/automatically operating Overload Relay. d) Suitably rated Switch Fuse Unit (SFU) along with HRC back up fuses. e) Suitable cable entry arrangement for terminating the incoming / outgoing cables and the size of cable should be of 3 cores, size 2.5 sq mm. of copper conductor, PVC armoured and insulated and of 1100 V grade. f) 15 meters length of this cable should be supplied along with supply of motor.</p> <p>4. A suitable frame of angle iron/channel should be made to install SFU and the starter (DOL / Star-Delta). Both SFU and starters shall be fitted in the same frame in such way that SFU shall be below the starter.</p> <p>5. The starter frame made up of M.S angle iron /channel fitted with SFU/ starter shall be grouted by 04 nos. of grouting bolts at the time of commission.</p> <p>6. M.S Angle iron/channel shall be painted (2 coats) with red oxide/grey paints.</p>		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p><b>C. AIR RECEIVER</b></p> <p>Vertical type skid mounted receiver, of min. capacity of 500 Ltrs (0.5 cubic meters) at suitable working pressure of approx. 150 Psig (10.5 Kg/cm<sup>2</sup>). The air receiver shall have built in safety valve, drain cock, liquid level gauge, inlet &amp; outlet points with necessary valves and piping and hydro tested up to approx. 200Psig (14.0 Kg/cm<sup>2</sup>) as per IS or equivalent standards. The air receiver shall be equipped with time adjustable auto drain valve with facility for manual drain.</p> <p><b>Note -</b></p> <p>(i) Safety valve shall be so constructed and adjusted as to permit the air to-escape from the air receiver without increasing the pressure beyond 10 percent above the working pressure when the air compressor or compressors are giving full output and all outlets other than safety valve or valves are closed.</p> <p>(ii) Delivery connection: 3/4" size with necessary coupling.</p> <p>(iii) Suitable Air flow regulator/controller (ball valve, butterfly valve etc) shall be fitted with the delivery piping.</p> <p>(iv) Analog gauge for pressure (psig and Kg/cm<sup>2</sup>) must be provided. The gauge must be of reputed make like MURPHY, FISHER, DANIEL or Equivalent reputed make.</p> <p>(v) Access &amp; Inspection openings as applicable.</p> <p>(vi) Installation: Proper foundation details for the receiver and the support shall be provided by the successful bidder.</p> <p>(vii) Surface Treatment- An appropriate surface protection shall be given inside and outside of air receiver to prevent corrosion.</p> <p>viii) Air receivers shall be manufactured according to following standards:</p> <ol style="list-style-type: none"> <li>1. IS: 2825-1969 or,</li> <li>2. ASME VIII Standard or,</li> <li>3. BS-5169-1975</li> </ol> <p>(ix) Test: The requirements of Test shall be as given below:</p> <p>Performance Guarantee Test: IS: 5456-1985</p> <p><b>D. Specification of Air Drier:</b></p> <p>a) Type: Refrigerated type Air Drier. (skid mounted)</p>		

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Item No./ Mat. Code	Material Description	Quantity	UOM
	<p>b) Capacity : 80 to 100 CFM (approx)  c) Working Pressure: 150 Psig (10.5 Kg/cm2) approx.  d) Inlet Air Temp. : 60 deg. C. (approx.)  e) Maximum Ambient Air temp: 50 deg. C. (approx.)  f) Air Line Connection : ¾"  g) Type of Refrigerant used: R- 134a or equivalent non ozone destructive refrigerant.  h) Power Supply Requirement: 230V, 1 Ph, 50 Hz.  i) Power Consumption: Max. 1.0 KW.</p> <p><b>E. Specification of Line Air Filter:</b>  a) 1st Stage : Air Filter  Pipe size: G- 1" BSPT,  Capacity: 80 to 100 CFM (approx)  Working Pressure: 17 Kg/cm2 (approx)  Purpose: General Purpose protection for particle removal down to 1Micron including coalesced liquid water &amp; oil, providing a maximum remaining oil aerosol content of 0.5 mg/m3 @ 21 deg C.</p> <p>b) 2nd Stage : Air Filter  Pipe size: G- 1" BSPT,  Capacity: 80 to 100 CFM (approx)  Working Pressure: 17 Kg/cm2 (approx).  Purpose: High efficiency protection for particle removal down to 1 Micron including coalesced liquid water &amp; oil, providing a maximum remaining oil aerosol content of 0.01 mg/m3 @ 21 deg C.</p> <p>c) 3rd Stage : Air Filter  Pipe size: G- 1" BSPT,  Capacity: 80 to 100 CFM (approx),  Working Pressure: 17 Kg/cm2 (approx)  Purpose: Activated Carbon Filter for oil vapour &amp; hydrocarbon odour removal providing a maximum remaining oil content of 0.003 mg/m3 @ 21 deg C.</p> <p><b>F. POWER TRANSMISSION / DRIVE ARRANGEMENT</b></p> <p>The transmission of power from the Driver (Electric Motor) to the Drive Equipment (Air Compressor) should be facilitated through a V-belt and pulley system incorporated between the driver and the driven equipment.</p> <p>The sizes of the pulleys (V-Sheaves) fitted onto the Electric Motor and the Air Compressor should be suitably selected so as to achieve the required torque transfer and reduction of speed.</p>		
	<b>INSTAL &amp; COMMISSIONING</b>		
10	<p>INSTAL &amp; COMMISSION.  <u>INSTALLATION &amp; COMMISSIONING</u></p> <p>1. The bidders shall clearly mention charges for commissioning along with their offered item price.</p>	1	PAC

	<p>2. The Successful Bidder shall commission their supplied items at Duliajan Power station premises, Electrical Department, OIL, Duliajan.</p> <p>3. The successful bidder shall have to arrange accommodation at their own cost at Duliajan including to &amp; fro expenditure for their personnel, deputed for commissioning.</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, MORAN, ASSAM. The bidder should clearly mention the delivery destination in the offer.



**Special Notes : 1.A. Protective Guards should be provided over all moving parts. The design of the guards should be such that the condition of the belts and pulleys can be visually monitored without removing the guards.**

**B. PAINTING AND PRESERVATION:**

All exposed surfaces of all the components of the compressor & motor assembly shall be provided with two coat of Heat Resistant suitable paint to protect them from corrosion.

**C. SPECIFICATION OF SKID:**

Bidder shall categorically confirm that the design of the skids shall incorporate human engineering aspects. The skids on which compressors, air receivers & Air dryers will be mounted shall be fabricated from ISMB 150 structural steel. The individual skids should have provision for grouting to concrete foundation with nut & bolts. All the exposed moving components of compressor and air dryer must be covered by strongly built safety guards.

**D. STANDARD ACCESSORIES/GADGETS:**

Apart from necessary instruments, panel, gauges, belt guard and devices etc. the standards of accessories of given air compressor set should consist of following:

i) Pressure Actuated-Automatic Electrical Motor Start-Stop control switch to be provided and it shall be connected with the motor start-stop mechanism.

**E. TEST CERTIFICATE**

The supplier shall submit Routine test & Performance Certificate of the manufacturer, along with the delivery of the Air Compressor unit. The certificate /records shall be supplied in quadruplicate and particularly those for electrical equipment shall be endorsed for suitable use in the climatic conditions specified.

**F. SPARE PARTS LIST, INSTRUCTION MANUAL & DRAWINGS:**

i. The supplier should provide 3 (three) sets of parts list as well as operation and maintenance, service manual / workshop manual covering the Air Compressor, Electric Motor and other accessories etc. both in hard copy and soft form.

ii. The supplier should provide drawings illustrating the general arrangement as well as the wiring diagram covering the motor, its accessories and the control panel.

The illustrative manuals, information should be supplied at the time of offer/quotation.

**I. INSPECTION AND TESTS**

The Air Compressor Unit shall be inspected and tested at supplier's works by OIL's engineers prior to dispatch or as agreed at the time of procurement. Such inspection or case may be, shall however not relieve the supplier of his responsibility to ensure that the equipment supplied is free from all manufacturing and other defects and conforms to correct specifications. Intimation must be sent to OIL at least 30 days in advance for deputing engineers to carry out the inspection of equipment at manufacturer's works. The successful bidder must keep all test reports / certificates ready for OIL's scrutiny and check.

Full load testing of the Air Compressor Unit for output and performance shall be carried out in presence of the representative appointed for the purpose and to his satisfaction. The Air Compressor unit shall be acceptable to OIL only after satisfactory full load test.

#### **J. WARRANTY**

The warranty period for the Air Compressor, Electrical Motor and all other accessories should be a minimum of 12 months from the date of successful commissioning or 18 months from the date of dispatch, whichever is earlier against defects arising from faulty materials, workmanship or design . Defective goods/ materials or parts notified by OIL to the Seller shall be replaced immediately by the seller on F.O.R. destination basis including payment of all taxes and duties at Seller's expense. The relevant warranty certificate should be submitted at the time of delivery of the air compressor unit.

#### **K. SPARES**

1). The Bidder's offer shall include the supply of following along with the air compressor:

The Bidder shall have to supply the following mandatory Spare parts for two years normal operation for each compressor unit along with the delivery:

- (i) Tune up Kit consisting of Piston Ring set, Gaskets, suction & delivery valve assemblies etc. - 1 no.
- (ii) Lube Oil for Air compressor - 20 lts.

The part nos. , quantities with price breakup of these spares should be submitted along with the offer which will be considered for evaluation purpose.

**NOTE:** The bidder shall provide detailed specifications of lube oil used at the crank case of the air compressor along with the offer.

#### **L. AFTER SALES SERVICE**

1).The nature of after sales service, which the supplier can provide during initial commissioning and also subsequently should be clearly stated. Confirmation that all spares and service related to the equipment supplied shall be available for a period of at least 10 years after delivery should be provided. Bidders should also indicate their nearest authorized service center.

2) The details of such service centre/authorized agent for after sales services shall be mentioned in the offer for bid evaluation.

**M. Bidder has to provide following information as DATA SHEET along with the offer of**

#### **AIR COMPRESSOR**

- 1. MAKE
- 2. MODEL
- 3. NUMBER OF CYLINDERS
- 4. NUMBER OF STAGES
- 5. BORE X STROKE
- 6. FREE AIR DELIVERY
- 7. DISCHARGE PRESSURE

8. RATED SPEED
9. HP REQUIREMENT AT RATED SPEED
10. AIR RECEIVER CAPACITY
11. TYPE OF LUBRICATION
12. RELIEF VALVE (First Stage) SET AT:
13. RELIEF VALVE (Second Stage) SET AT:
14. RELIEF VALVE (Air Receiver) SET AT:

**FOR ACCESSORY EQUIPMENT**

1. SIZE OF V-SHEAVE ON AIR COMPRESSOR
2. SIZE OF V-SHEAVE ON ELECTRIC MOTOR
3. NUMBER AND SIZE OF VEE BELTS
4. DIMENSION OF SKID (LENGTH X BREADTH)
5. DIMENSION OF AIR RECEIVER
6. GROSS WEIGHT OF THE AIR COMPRESSOR UNIT INCLUSIVE OF THE SKID

**FOR AIR DRYER**

1. Type:
2. Make & Model:
3. Capacity:
4. Working Pressure:
5. Type of Refrigerant used:
6. Air line connection size:
7. Power supply requirement:
8. Power consumption:

**N. Bidder has to provide following information as DATA SHEET along with the offer of ELECTRIC MOTOR (The name plate of electrical motor shall have the same information)**

1. MAKE
2. MODEL
3. RATED VOLTAGE
4. PHASE
5. FREQUENCY
6. RATED HP
7. RPM
8. INSULATION CLASS
9. ENCLOSURE
10. FRAME SIZE
11. TYPE AND MAKE OF STARTER
12. BEARING NOS. (AT DE & NDE SIDES)

**O. Transportation:**

During transportation all item vulnerable to damage from water along with electrical equipment are to be suitably packed to avoid water ingress. The whole package of items must be suitably packed to avoid transit damage.

**P. Markings on the Air Compressor and Motor:**

Following minimum Name Plate details of the Compressor and motor shall be separately

marked at the body of the following equipments:

**1) Markings on the Air Compressor:**

- i) Name of manufacturer
- ii) Model
- iii) Flow Capacity of the Air Compressor at rated rpm
- iv) Rated Delivery Pressure
- v) Speed in rpm at rated output
- vi) Direction of Rotation
- vii) Lubrication
- viii) Year of Manufacture.

**2) Markings on the Motor:**

- i) Name of manufacturer
- ii) Frame size
- iii) Rated voltage
- iv) Rated power output
- v) Rated current & frequency
- vi) Type of duty
- vii) Class of Insulation
- viii) No. of phases
- ix) Speed in rpm at rated output
- x) Degree of protection
- xi) Winding connections
- xii) Ambient temperature
- xiii) Bearing sizes, lubrication & lubrication Material
- xiv) Year of Manufacture.

**3) Markings on the Air Drier:**

- i. Type :
- ii. Make & Model :
- iii. Capacity :
- iv. Working Pressure:
- v. Inlet Air Temp. :
- vi. Maximum Ambient Air temp. :
- vii. Air Line Connection :
- viii. Type of Refrigerant used :
- ix. Power Supply Requirement :
- x. Power Consumption :

**3) Markings on the Air Receiver:**

- i. Make & Model :
- ii. Capacity :
- iii. Working Pressure:
- iv. Hydraulic Test Pressure:
- v. Safety Valve Operating Pressure :
- vi. Air Line Connection :

**4) Markings on the Air Filters:**

- i. Capacity :
- ii. Working Pressure :
- iii. Pipe size :

**5) Markings on the Auto Drain Valve:**

- i. Capacity :
- ii. Working Pressure :
- iii. Working Voltage & Power Rating :
- iv. Pipe size :

**Q. Documents:**

**1. Bidder shall furnish every detail of the Air Compressor unit including electrical items in their offer. All of the above shall form part of the Purchase Order. Hence any deviations must be clearly mentioned which shall be scrutinized for technical acceptability. Specific type and make of components should be mentioned clearly. No deviation shall be allowed at the time of supply and in such case the 'Purchase Order' shall be cancelled without any liability to OIL. IN CASE OF SUCH CANCELLATION, OIL MAY RECOVER THE COST INCURRED IN PROCESSING THE TENDER, TILL THE TIME OF CANCELLATION, FROM THE BIDDER.**

**2. Bidders shall have to provide data sheet for their offered item as per clause nos. M and N of specification for the Air Compressor unit.**

**3. Successful Bidder has to take approval from OIL for the following prior to manufacture/assembly of the Air Compressor unit:**

- i) GA and dimensional drawing.**
- ii) Power and control circuit diagrams.**
- iii) Technical details of the motor.**
- iv) Bill of materials with technical details of various components of the starter and PBS.**
- v) Technical details of the Air receiver tank.**
- vi) Technical details of the compressor.**
- vii) Technical details of the Air Pressure Safety Relief Valve.**

**4. Successful bidders shall have to submit two bound sets of the following documents along with each unit of the Air Compressor:**

- i) Approved GA and dimensional drawing of all equipment.**
- ii) Approved Power and control circuit diagrams.**
- iii) Approved Technical details of the motor.**
- iv) Approved Bill of materials**
- v) List of recommended spares for maintenance of the air compressor set.**
- vi) Test carried out as per IS: 325 -1996 (Reaffirmed in 2007) for electrical motor shall be furnished with the supply.**
- vii) All test certificates.**
- viii) Guarantee / Warranty certificate duly signed & stamped by the supplier.**

**NOTE: Bidder must confirm every details of equipment as specified in the enquiry. Any deviations must be clearly mentioned. Specific type and make of components shall be mentioned clearly. The bidders shall summarize the deviation /modification in a separate para in their offer document with a heading "deviation/modification". Otherwise they will write "NO DEVIATION FROM ENQUIRY". Deviation of any nature shall NOT be allowed at the time of supply.**

**V. SPECIAL TERMS & CONDITIONS:**

**a) The bidder should be an OEM or authorized dealer of either Air Compressors or Electrical Motor or both.**

**b) The bidder also may be OEM appointed authorized assembler of Air Compressor Set.**

**c) In all cases, the bidder must purchase the Prime Mover (Electrical Motor) or Compressor from OEM or authorized dealer of Electrical Motor or Compressor whichever may be the case.**

**d) In case of authorized dealer or appointed authorized assembler, the bidder must submit the authorized dealership certificates/appointed authorized assembler certificates with validity period from the OEM along with the offer.**

**e) Bidders shall have the past experience of successfully executing at least 01 (one) no. order for similar type of equipment in any Central Govt./PSU/State Govt./ Public Limited Company / Private Limited Company during last 5 (Five) years from bid closing date. Documentary evidence in this regard must be submitted along with the offer like Purchase Order or Work Order and completion certificate from the purchaser.**

**"Similar type of equipment" means Electrical motor driven reciprocating air compressor of similar capacity (maximum operating pressure and discharge capacity) or above as specified in the tender.**

## **R. TECHNICAL CHECK LIST**

**The bidder MUST SUBMIT the following technical check list along with their offer for technical evaluation:**

- 1. Whether quoted as OEM of Compressor or Electric Motor and whether documentary evidences submitted? YES/NO**
- 2. Whether quoted as authorized dealer of Compressor or Electric Motor and whether documentary evidences submitted? YES/NO**
- 3. Whether quoted as OEM recommended assembler of Air Compressor set and whether documentary evidences submitted? YES/NO**
- 4. Whether the offered Air compressor is single acting, two stage, reciprocating type air compressor? YES/NO**
- 5. Whether the testing standard of the offered Air compressor conforms to ISO 1217 Standard? YES/NO**
- 6. Whether the air receiver manufactured and tested as per standards mentioned in NIT? YES/NO**
- 7. Whether the Electrical motor meets NIT criteria? YES/NO**
- 8. Whether the air compressor is having Capacity & Pressure as per NIT? YES/NO**
- 9. Whether the Refrigerated Air Drier meets NIT criteria? YES/NO**
- 10. Whether the 3 stage line air filters meet NIT criteria? YES/NO**
- 11. Whether the power transmission / drive arrangement is V-belt & pulley system with protective guards over all moving parts ? YES/NO**
- 12. Whether the Motor starters are as per NIT ? YES/NO**
- 13. Whether filled up data sheet of Air compressor, Accessory equipment, Air dryer, Electric motor etc. submitted along with the offer as per NIT ? YES/NO**
- 14. Whether the skid is rigid enough to withstand vibration of the unit and suitable for self loading purpose? YES/NO**
- 15. Whether the two years spares for the packages included in the offer? YES/NO**
- 16. Whether special tools and commissioning spares have been included in the scope of supply? YES/NO**
- 17. Whether spares shall be available for 10 years after supply of equipment? YES/NO**
- 18. Whether separately highlighted any deviation from the technical specifications? YES/NO**
- 19. Whether the Pre-dispatch inspection of the Pump packages shall include Full Load Performance test of the Air compressor Sets? YES/NO**