Government of India  
Bhabha Atomic Research Centre  
SINTERED MATERIALS MACHINING SECTION  
Powder Metallurgy Division  

Vashi Complex  
Navi Mumbai - 400 703  

Ref.: PMD/CAMC/Comp./2020/107575  
October 26, 2020

Sub.: Comprehensive annual maintenance contract for various types of rotary and reciprocating air compressors for breathing and process air purpose installed at PMD, BARC, Vashi Complex.

For & On behalf of President of India, sealed quotation are invited by the undersigned for the above said work to be carried out at PMD, BARC, Vashi Complex, Navi Mumbai - 400703. The scope of work is detailed below.

<table>
<thead>
<tr>
<th>Nature/Description of work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comprehensive annual maintenance contract for various types of rotary and reciprocating air compressors (12 Nos.) for breathing and process air purpose installed at PMD, BARC, Vashi Complex, Navi Mumbai, as per attached annexure No. 1 &amp; 2</td>
</tr>
</tbody>
</table>

The sealed quotation covers super scribe nature of work and should be addressed to the following person and reach to him on or before the date and time mentioned. The quotation should be sent by speed post or registered post of Indian Postal Department.

R. K. Sahu,  
Technical Officer (E),  
SMMS, Powder Metallurgy Division, BARC, Sector-20,  
Vashi Complex, Navi Mumbai – 400703  
On or before November 16, 2020 at 1600 hrs.

Instruction to the tenderer:

- For further details of the work and site visit, party may contact to undersigned at below given contact no.

- The tenderer should write in words as well as figures, the rate(s) quoted by him. All correction must be attested by the dated initials of the tenderer.

- The tenderer may note that in case the work is awarded to him, he has to produce the police verification certificate for the employees to be deputed for the work inside the BARC/BRIT, Complex, Navi Mumbai.

- Income-Tax and surcharge on income-tax as applicable shall be deducted from the bill. The payment for the work done shall be paid by our Account Division only on satisfactory completion of the work.

Cont....
- The tenderer must provide PAN No. and GST no. of the firm/company along with offer.
- Comprehensive maintenance contract is valid for one year. The same shall be reckoned from the date of issue of work order.
- The acceptance of the tender rests upon the undersigned with right to reject the tender without assigning any reason.

Thanking you,

D. S. Kurkure
Head, SMM Section, PMD
BARC.

(R. K. Sahu)
Technical Officer (E)
Tel: 2788 7174

26/10/2020
Scope of work:

Powder Metallurgy Division, Vashi Complex, has 12 nos. of reciprocating and rotary screw air compressors. Their details are given as under and all units are to be covered under comprehensive annual maintenance contract for one year. The following service and maintenance works shall be carried out by the qualified and experienced technicians deputed by vendor. Not less than two technicians shall come to the site on every visit for their quarterly servicing and other breakdown maintenance works. Annually, four services and all breakdowns on call shall be carried out for all air compressors and to ensure that unit are in healthy condition during contract period.

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Details of air compressor</th>
<th>Capacity</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Non Lubricating Reciprocating Air Compressor Make: Chicago Pneumatic, Model: HX1T-25N 1P, Sr. No.: PNA-329592, 25 HP</td>
<td>100CFM, 7.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>2.</td>
<td>Non Lubricating Reciprocating Air Compressor Make: Chicago Pneumatic, Model: HX1T-25N1P, Sr No.: PNA 329634, 25 HP</td>
<td>100CFM, 7.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>3.</td>
<td>Non Lubricating Reciprocating Air Compressor Make: Chicago Pneumatic, Model: HX1T-25N1P, Sr No.: PNA 927218, 25 HP</td>
<td>100CFM, 7.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>4.</td>
<td>Screw Rotary Air Compressor Make: Chicago Pneumatic, Model: CPB 30, Sr. No.: PNA 920662, 30HP</td>
<td>112 CFM, 10.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>5.</td>
<td>Screw Rotary Air Compressor, Make: Chicago Pneumatic, Model: CPB 30TMD, Sr. No.: PNE 620457, 30HP</td>
<td>112 CFM, 10.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>6.</td>
<td>Screw Rotary Air Compressor, Make: Ingersol-rand, Model: UP5-22-8, Sr. No.: 20504141,30HP</td>
<td>123 CFM, 8.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>7.</td>
<td>Non Lubricating Reciprocating Air Compressor, Make: Kirloskar, Model: TC100M, Sr. No.: 000300, 25HP</td>
<td>100CFM, 7.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>8.</td>
<td>Reciprocating Air Compressor, Make: ELGI, Model: HP20300, Sr. No.: CLKT540019, 15HP</td>
<td>1500LPM, 10 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>9.</td>
<td>Reciprocating Air Compressor, Make: Parkeen, Model: 60T, Sr. No.: TSB/1197/03, Type: TDM</td>
<td>1200LPM, 8.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>10.</td>
<td>Reciprocating Air Compressor, Make: Parkeen, Model: R30, Type: TDM, Sr No.: TSB/1051/96, 15HP</td>
<td>1200LPM, 8.0 bar</td>
<td>01 No.</td>
</tr>
<tr>
<td>11.</td>
<td>Sampler Vacuum Pump, Make: Ingersol-rand, Model: 7V, Sr. No.: NAR 10079105, 10 HP</td>
<td>100CFM, 29&quot; Hg.</td>
<td>01 No.</td>
</tr>
<tr>
<td>12.</td>
<td>Desiccant type heatless Air dryer, Make: Spantech</td>
<td>120 CFM</td>
<td>01 No.</td>
</tr>
</tbody>
</table>

1. **Quarterly Inspection & Maintenance**
   1.1 Detailed inspection of all air compressors and its accessories including electrical connections.
   1.2 If any abnormality/fault is observed, the same should be rectified at the earliest.
   1.3 Cleaning of air compressors external surfaces or keeping it free from dust.
   1.4 Checking of belt tension and same shall be tightened in case of loose belts.
   1.5 Checking of condensate drain valves, elimination of abnormal noise & vibration, tightening of loosened nuts & bolts, if any exist.
   1.6 Maintenance & service report card of each unit shall be maintained by the vendor and same shall be checked by Officer-in-charge.
   1.7 Repairing of any air, oil and cooling water leakages from air compressor system.
   1.8 Manual pressure testing of safety valve for its set pressure.
2. Yearly Maintenance
   2.1 Cleaning of pre cooler and after cooler with chemical circulation.
   2.2 Overhauling of air compressors if required and replacement of lubricating oil.
   2.3 Painting of external surface of air compressors.
   2.4 Consumable spares like Suction filters, oil filters and oil separator filters shall be changed as per schedule and arranged by vendor.

3. Break Down Maintenance
   3.1 Any break down in any air compressor shall be attended within 48 hours of receiving complaints.
   3.2 Any spares parts required at the time of breakdown or preventive maintenance work shall be arranged by the vendor.
   3.3 Supply of spares by vendor, in case of breakdown/preventive maintenance may include like suction filters, oil filters, oil separator filters, finger valves, lubricating oil, servicing kit, piston rings and V belts etc. All spares or consumables should be genuine and same make.

   Note: All required tools and spares shall be arranged by vendor. Vendors shall be provided only electrical and water supply free of charge from the department at the site. Vendor has to provide service certificates of all air compressors at every three months during one year contract period.
Terms and conditions:

i) Materials: No free materiel will be provided to the party. All the materials required for the work will have to be provided by the bidder. All the materials should be of standard specifications available in the market. The materials brought to the site should be got approved from the undersigned before use for the work.

ii) Tools: All the tools required for the work shall be arranged by party. Free electricity and water supply will be provided for the work.

iii) Safety: All the personnel of the contractor should use personal protective gears, taking care of their safety and follow the industrial safety regulation while working at site. Any mishap occurring on the job due to unsafe work practice shall be vendor’s liability.

iv) Security: Police Verification Certificates (PVC) are required for supervisor and all workers employed by the contractor inside the BARC. Security instructions on entry of workers, working time etc. are to be followed strictly.

v) Work completion: The time allowed for completion of the job is three month. The same shall be reckoned from the date of issue of work-order. Party should engage skilled and semi-skilled workers for the work with adequate supervisory staff.

vi) Payment: No advance or part payment will be made. The payment shall be made quarterly (after each three months) only on satisfactory completion of servicing & repairing work and on production of bill (invoice), advance stamped receipt, payment option form and GST under taking. Income Tax @2% or as applicable at the time of billing will be deducted from your bill.

vii) Penalty for delay: Any delay which is attributable to the contractor is liable for penalty @1½% per week of the total value of the work-order subject to a ceiling of 10% of the total value.

viii) The contractor is only responsible for any labour related dispute and any injury to contractor’s worker during execution of the job.

xi) Head, Powder Metallurgy Division, reserves the right to accept/reject any or all quotations without assigning any reason.

R. K. Sahu
Technical Officer ‘E’
SMMS/PMD/BARC
Vashi Complex, Navi Mumbai
Tel. No.: 27887174