



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

Vashi Complex
Navi Mumbai - 400 703

Ref.: PMD/Fab. /Air Dryer/ 2020/ 118383

November 11, 2020

Sub.: Design, manufacture, supply, installation, testing and commissioning of Desiccant type Heatless Compressed Air Dryer, 02 nos., including modification in SS 304 compressed air pipelines along with valves and fittings etc.

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.

Nature/Description of work
Design, manufacture, supply, installation, testing and commissioning of Desiccant type Heatless Compressed Air Dryer, 02 nos., including modification in SS 304 compressed air pipelines along with valves etc. at PMD, Vashi complex, BARC as per attached annexure No. 1&2

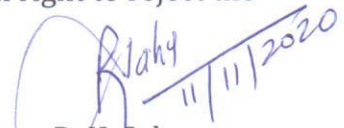
The sealed quotation covers super scribe nature of work and should be addressed to the following person and reach to him on or before the date and time mentioned. The quotation should be sent by speed post or registered post of Indian Postal Department.

R. K. Sahu, Technical Officer (E), SMMS, Powder Metallurgy Division, BARC, Sector-20, Vashi Complex, Navi Mumbai - 400703	On or before December 01, 2020 at 1600 hrs.
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Instruction to the vendors:

- For further details of the work site visit is mandatory, vendor may contact to undersigned with prior permission and providing full details of the firm, at below given contact no.
- The vendor 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 vendor.
- The vendor 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, Vashi 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.
- The vendor must provide PAN No. and GST no. of the firm/company along with offer.
- The acceptance of the tender rests upon the undersigned with right to reject the tender without assigning any reason.

Thanking you,


R. K. Sahu
Technical Officer (E)
Tel: 2788 7174 /7172

Design, manufacture, supply, installation, testing and commissioning of Desiccant type Heatless Compressed Air Dryer, 02 nos., including modification in SS 304 compressed air pipelines along with valves etc.

Scope of work:

1. Supply and manufacture of 02 nos. of Desiccant type Heatless Compressed Air Dryer, with following specifications:
 - 1.1 Capacity:150 CFM
 - 1.2 Dryer type offered: Fully Automatic heatless
 - 1.3 Purging loss: 10% (14% max)
 - 1.4 Min operating Pressure: 04 Kg/cm²
 - 1.5 Max operating Pressure: 14 Kg/cm²
 - 1.6 Inlet Temp considered: 30-45 Deg c
 - 1.7 Max Dew point at dryer outlet: (-) 40 deg c
 - 1.8 Time: Drying/Regeneration /Re-pressurisation: 5 min – 3 1/2 min, 1 1/2 min
 - 1.9 Desiccant – Activated Alumina Desiccant qty: 80 Kg
 - 1.10 Electrical Connection: single phase 230V,50Hz
 - 1.11 Dimensions: 1500(H) x 800 (L) x 500 (D)
 - 1.12 Weight:130 Kgs
 - 1.13 Outlet Air Quality: As per ISO8573-1,Table3-Class3
 - 1.14 Code of construction IS2825/ASME Sec VIII Div
 - 1.15 Filter Combination: P & S Filtration Efficiency: 99.99%. Micron Rating : P – 5 micron & S –0.1 micron
 - 1.16 Inlet / Outlet Connections : 1" BSP
 - 1.17 Material data Absorber shell: IS2062, Dish end : IS4049 ,Pipe lines : IS1239

2. Installation of 02 nos. of Desiccant type Heatless Compressed Air Dryer
 - 2.1 Both dryer are to be installed at different locations within the complex.
 - 2.2 Minor levelling of the flooring is to be carried out, if necessary for installation.
 - 2.3 Diversion of Ø 6" PVC drain pipeline of length 20 feet to create the space for installation location.
 - 2.4 Dryers are to be installed in downstream of the air receivers along with provision for maintenance by pass lines and valves.
 - 2.5 SS 304 pipelines of Ø2" and Ø1" required for installation should have wall thickness not less than 2.5 mm. SS flanges, fittings and SS ball valves etc. of approved quality shall be supplied by the vendor.
 - 2.6 Provision for installing high efficiency compressed air filters at downstream of the Dryer shall be made. (Air filters shall be provided by department)
 - 2.7 For operation of dryer suitable and required electrical plug point along with switch is to be provided.
 - 2.8 Pipe lines shall be given proper support and elimination of vibration.
 - 2.9 Dryer shall be firmly secured to the floor.
 - 2.10 All pipeline work shall be accordance to code BS335/ASAB31.3
 - 2.11 Any unspecified/unforeseen work associated with installation shall be done by the vendor at no extra cost.

3. Testing of the Dryer
 - 3.1 After complete installation of dryers, connected pipelines, filters and valves etc, the system shall be tested for its dew point performance.
 - 3.2 Vendor shall supply all required consumable and non-consumable items required for execution of work. Only electricity and water shall be provided by us free of charge.
 - 3.3 Vendor shall provide the 12 months warrantee for supplied equipments and workmanship carried out by them.

Handwritten signature/initials

Terms and conditions:

- i) **Materials:** No free material 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 full payment shall be released only after satisfactory completion of the work as per scope of work , a terms & conditions 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 @ $\frac{1}{2}$ % 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.


11/11/2020
R. K. Sahu
Technical Officer 'E'
SMMS/PMD/BARC
Vashi Complex, Navi Mumbai
Tel. No.: 27887174