

Department of Physics
Indian Institute of Technology, Chennai – 600036.

Ref: PHY/2017/SSRK/040

Date: 02 Nov. 2017

To whom it may concern

Dear Sir/Madam,

We invite offers for the supply of **Air cooled Multistage Dry Roots pump having integrated silencer at Gas ballast** with the following specifications.

Technical Specifications

- Peak Pumping Speed- 55m³/hr
- Inlet Port- DN40 ISO-KF
- Exhaust Port- DN16 ISO-KF
- Leak Tightness < 10⁻⁵mbar.l/s
- Ultimate pressure with closed gas ballast - 0.03mbar
- Max continuous inlet pressure - 1050 mbar
- Max. water vapor tolerance: 20 mbar 15 Torr
- Max. water vapor capacity: 500 g/h
- Operating voltage- 230 VAC/50 hz (Single phase)
- Power consumption < 10 mbar inlet pressure: 600 W
- Rotation speed at 50/60 Hz: 12600 rpm
- Noise level – Less than 52 Db
- Protection rating: IP 42
- Operating temp - 15°C to 40°C
- Admissible ambient temperature: +5 to +40°C ~ +41 to +104°F
- Dimension W x L x H (mm): 320 x 623 x 298
- *The pump should frictionless design with no wearing parts in the pumping line for particle generation.*

- *The Pump should be free of lubricant inside the pumping module with no hydrocarbon vapor back streaming.*

Terms & Conditions

- Vendor should have Multiple Service Personnel to provide efficient local service support.
- System must have installation and on-site training included
- Compliance statement should be enclosed with the quotation.
- The details of the quoted system should be available in the manufacturer's web site. Also the manufacturer should have ISO 9001 or similar certification.
- Authorization letter should be furnished along with the quotation.
- **Preparation of Bids:** The limited tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- **Opening of the tender:** The offer/bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
- **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to the Physics Department of IIT Madras. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated.

The price should be quoted without custom duty and excise duty, since IIT Madras is exempt from payment of excise duty, and the custom duty will be paid at concessional rate against duty exemption certificate. In case of import supply, the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.
- **Validity:** Quotation should be valid for at least 90 days

- **Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.
- **Terms of Delivery:** - The item should be supplied to the Physics Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.

Sincerely
Sivarama Krishnan
Co-ordinator,
MSB 328, Department of Physics
Indian Institute of Technology Madras
Chennai - 600036
India
Telephone: +91 9445 224291
Email: srkrishnan@iitm.ac.in