

Prof. Aveek Bid Associate Professor Department of Physics Indian Institute of Science Bangalore 560 012, INDIA

Tender Notification for the procurement of a Turbomolecular pumping station with dry multi-stage roots backing pump (Last Date for submission of tenders: 14th August 2021)

Ref: PPH/AVB/495/2021

23rd July 2021

A request for quotation from Indian OEM or its authorized Indian Distributor for a Dual channel digital high dynamic reserve lock-in amplifier on **FOR Bangalore basis with value quoted in INR**. The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms, etc. Kindly submit the quotation latest by 14th August 2021 by email.

For this tender, the rules laid out by the Government of India in order No. P45021/2/2017-PP (BE-II) issued by the Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 04th June 2020, will be followed. Per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%". A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%". Only 'Class-I' and 'Class-II' local suppliers are eligible to participate in this open domestic tender. Any 'Non-local supplier,' i.e., "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender.

Please enclose a compliance certificate along with the bid. This certificate should have a table that should describe your compliance in a "Yes" or "No" response against each of the items in the specifications listed below. If "No" the second column must state the extent of the deviation. The third column should state the reasons for the deviation, if any. **Bids with no statement of compliance will be considered invalid.**

Specifications of Item: 'Turbomolecular pumping station with dry multi-stage roots backing pump' with the following minimum specifications and components:

- 1. Turbomolecular pump with the following minimum specifications:
 - a. Pumping speed for N_2 at room temperature minimum 260 l/s.
 - b. High compression ratio for Hydrogen minimum 1×10^5 .
 - c. High compression ratio for Nitrogen minimum 1×10^{11} .
 - d. Gas throughput at full rotational speed for Nitrogen 14 hPa l/s or better
 - e. Gas throughput at full rotational speed for Helium 20 hPa I/s or better
 - f. Gas throughput at full rotational speed for Hydrogen 14 hPa l/s or better
 - g. Inlet flange type DN100 CF.
 - h. Pump cooling system appropriate air-cooling system.
 - i. Maintenance-free bearings with a long service-free operation should be field replaceable.
 - j. Appropriate controller for the turbomolecular pump with the capability to display turbo speed, pressure, current drawn, and Bearing temperature.
 - k. The turbomolecular pump should be mountable in multiple orientations.
- 2. Appropriate backing pump with the following minimum specifications:



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- a. Dry multi-stage roots pump with a minimum pumping speed 14 m³/h.
- b. Maximum backing vacuum pressure for N_2 should be 20 hPa.
- c. Ultimate pressure less than 5 X 10⁻² mbar.
- d. System should have appropriate gas ballast ports and silencer.
- 3. Full range Vacuum Gauge operating over the range 1 bar to 1 X 10⁻⁹ mbar (with appropriate display) with KF 25 flange.
- 4. Appropriate reducers and flexible hose (min 1 meter in length) for connection between the turbo pump and the backing pump.

Optional item:

1. A frame/trolley for holding the entire turbomolecular pumping station, including the turbomolecular pump, backing pump, control unit, and the vacuum gauge.

Terms and conditions:

- 1. Warranty: One year on parts and labor on defects in materials and workmanship.
- 2. The vendor/company should have a track record of having previously supplied at least fifteen similar equipment ('Turbomolecular pumping station with dry multi-stage roots backing pump') in India in the past five years (please furnish the details). It would be desirable to provide 2-3 reference letters from customers in India.
- 3. Pictures of the exact model being offered should be included.
- 4. The vendor should have qualified technical service personnel for the equipment based in India.
- 5. Quote to be from Indian OEM or its authorized Indian Distributor and in commercial terms quote should be FOR-IISc Bangalore basis in INR.
- 6. The payment will be through "net 30 days after delivery and installation" for domestic purchases and advance payment/LC for foreign purchases as per IISc rules.
- 7. The lead time for the delivery of the equipment should not be more than 4 months from the date of receipt of our purchase order.
- 8. The offer shall be valid at least 60 days from the date of opening of the bid.
- 9. The vendors quoting should ideally be registered with IISc, and the quote should ideally carry the vendor registration number in the bid.
- 10. The covering letter in the bid should clearly mention whether the vendor is a 'Class I' local supplier or a 'Class II' local supplier, failing which the vendor will be automatically disqualified. The vendor should indicate the percentage of the local content and provide self-certification that the offered item meets the minimum local content requirement. They should also give details of the location(s) at which the local value addition was made.

Yours Sincerely,

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