

Request for quotation for a Turbo Molecular Pump with a controller and a rotary pump

DATE: 25th Jan 2021

Last date of submission via email: 14th Feb 2021

A request for quotation from **domestic (India-based) manufacturers** for a turbo molecular pump with controller and a rotary pump. The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms etc.

With respect to 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 should state the extent of deviation. The third column should state the reasons for the deviation if any. Please enclose a compliance statement along with the technical bid. Bids with no statement of compliance will be considered invalid.

General Terms and Conditions:

1. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
2. The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order.
3. The offer shall be valid at-least 90 days from the date of submission of the commercial bid.
4. The vendors quoting should ideally be registered with IISc, and the quote should ideally carry the vendor registration number in the technical bid. Details of vendor registration can be sought by sending an email to vrekha@iisc.ac.in
5. 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.
6. The vendor should indicate the percentage of the local content and provide self-certification that the items offered meet the minimum local content requirement. They should also give details of the location(s) at which the local value addition is made.
7. Address the quotation to the Chairman, Department of Physics, Indian Institute of Science Bangalore.

Technical specifications

S No	Specification	Range/Parameter
Turbo molecular pump		
1	Inlet flange	DN100CF
2	Outlet flange	DN25NW
3	Vent/purge port	1/8 inch BSP female
4	Pumping Speed N2	300 l/s

5	Nominal rotational speed	60000 rpm
6	Standby rotational speed	Variable from 33000 to 60000 rpm (42000 rpm default)
7	Programmable power limit settings	Variable from 50-200W
8	Analogue outputs	Rotational speed; Power consumption;
9	Cooling method#	Forced air / water
10	Ambient air temperature for forced air cooling	5 - 35 °C
11	Operating attitude	Vertical and upright, through to Horizontal +/-2 °
12	Controller	As per the pump recommendation
Rotary/Backing Pump		
1	Nominal rotational speed	1800 rpm
2	Displacement (nominal)	: 17 m ³ /h
3	Peak pumping speed (nominal)	: 15 m ³ /h
4	Ultimate vacuum (total pressure)	0.007 mbar
5	Nominal Minimum standby rotational speed	1200 rpm
6	Maximum continuous inlet pressure	200 mbar
7	Motor power 1-ph	300 W
8	Inlet flange	NW25
9	Exhaust flange	NW25
10	Noise level	52 dB(A)
11	Vibration at inlet flange	< 4.5 mm/s (rms)
12	Leak tightness (static)	< 1x10 ⁻⁶ mbar-l/s
13	Operating temperature range	5 to 40 °C