

**Department of Physics, Indian Institute of Technology
IIT.P.O. Madras-600 036**

Ref. No.

PHY	2014	027	STORES
-----	------	-----	--------

Date: 31 /10 / 2014

To,

Dear Sir,

Due date: 20 / 11 / 2014

1. Quotations are invited in duplicate for the item specified below/overleaf/ enclosed.
2. The quotations duly sealed and superscribed on the envelope with the Reference No. and due date, should be addressed to the undersigned so as to reach him/her on or before the due date stipulated above.
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS &D RATE CONTRACT, RC No.and the price must be mentioned. It may be also please be indicated whether the supply can be made direct to us at the Rate Contract price. If so, please send copy of the RC (Please note that we are not Direct Demanding Officers)
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. **Local Firms** : Quotations should be for free delivery to this Institute. If Quotations are for Ex-godown . delivery charges should be indicated separately.
7. **Firms outside Chennai**: Quotations should be for F.O.R. Chennai. If F.O.R. consignor station, freight charges by passenger train/lorry transport must be indicated. If Ex-godown, packing, forwarding and freight charges must be indicated.
8. The rate of Sales/General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim, for Sales/General taxes will be admitted at any stage and on any ground whatsoever . **The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a concession. Sales tax Certificate will be issued at the time of final settlement of the bill.**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

SPECIFICATION ENCLOSED

Yours Sincerely,

Dr. Jayeeta Bhattacharyya

Head / Co-ordinator
Department of Physics,
Indian Institute of Technology Madras,
Chennai - 600036, India.
Telephone : +91 44 2257 4850

Minimum specification for Turbomolecular pump (Quantity - 1 unit)

Turbomolecular pump type	Compact (for easy portability) with built-in backing pump (oil-free)
Flange (in)	DN 40- ISO-KF
Ultimate pressure	$< 10^{-7}$ mbar
Mains voltage	230V, 50 Hz, Single phase
Pumping speed for N ₂	35 l/s or higher
Display unit	Provided on the front panel for easy setting and monitoring of parameters
Pump cooling	Air cooled
Splinter shield	Preferably integrated in the system
Pressure monitoring	vacuum gauge must be included and the turbo display /control unit should be able to read atleast one vacuum gauge
After sale service requirements	<p>The supplier should have Service Centre / Facility with complete infrastructure in India, to handle major repair of the turbo pump. Critical spares should be available off the shelf in the Indian office</p> <p>In case of a break down, maintenance and replacement of parts like bearing, motor parts etc and overall cleaning of the pump should be possible at purchaser's site</p>
Accessories required	
Flexible metal hose	1000 mm DN 25 ISO-KF
Valve (isolating pump from cryostat)	Manual operation
T-piece	DN40 ISO-KF
Center ring, Clamping ring	DN40 ISO-KF, DN25 ISO-KF and DN16 ISO-KF
Reducer	DN40-25 ISO-KF and DN25-16 ISO-KF

Please provide prices of individual units of the accessories needed for complete operation and connection with standard cryostat for spectroscopy

Please provide a clear warranty statement

Please provide separate technical and financial bids in sealed envelopes

Please mark tender number on top of the cover envelope

Jayeeta Bhattacharyya