

REF: PH/JKB/ 333/ 2019-20,

Date: 14.6.2019

Dear Sir/madam,

Kindly send your best quotation for the following item on CIP Bangalore basis. Your quotation should clearly indicate the terms of delivery, delivery schedule, E.D., payment terms etc. The tender should be submitted in two separate sealed envelopes - one containing the technical bid and the other containing the commercial bid, both of which should reach us, duly signed on or before, 8. July, 2019.

Technical Specifications for a Liquid helium Flow Type Cryostat for Optical Microscopy and Spectroscopy.

Liquid He for temperature control from 3.2K to 500K adapted for use on a Confocal Microscope system mounted on a motorized stage.

Adaption for both Transmission and Reflection mode measurement.

- temperature stability of 0.1K or better
- Cooling time required for cooling from 25°C to minimum 4 K – Desirable 10-15 minutes
- Helium consumption to provide temperature stability: <450 cc/h at 4.2K
- Continuous flow vacuum loading with radiation shielding
- optical access through at least two windows (working distance 4.5 -5.5 mm). Options for additional windows can be provided.
- 4x spectrosil quartz-windows
- ~ 12.5 mm sample holder
- oil free gas flow pump with nominal speed up 70l/min at 1000mbar
- temperature controller with up to 80W heating output per channel + LCD Display
- low loss technology flexible transfer tube in 90° configuration, horizontal cryostat entry and manual needle valve.
- Any other accessories required to transfer liquid He from Dewar to the cryostat.

Please quote separately Liquid Helium Dewar, Non Magnetic Stainless Steel construction, 50 Liters with electric pressure builder.

Warranty: Minimum 1 year. Please specify in details coverage of warranty. Please specify additional years of warranty separately

Terms and conditions:

1. Two-bid system (separate technical and financial bids) in sealed tenders.
2. The technical bid must clearly specify the prescribed technical specifications without including the prices. Please provide in detail the specifications under each subhead and bullet point. Unique characteristics may be highlighted.
3. Vendors who include price information in the technical bids will be automatically disqualified.
4. After technical evaluation by a committee, vendors may be asked to re-quote in a specific format to facilitate comparison of prices.
5. Price bids of only technically qualified vendors will be considered.
6. The price bids must offer CIF Bangalore prices.
7. Indicate separately price of spares listed above in terms of unit cost. The price of these spares will be included in the price comparison. Any additional spares recommended by the company will be considered for ordering but not included in the comparison. The buyer reserves the right to make the final decision on ordered spares.
8. IISc also reserves the right to cancel the tender at any time without assigning any reason whatsoever.
9. Indicate delivery period.
10. Order will be placed on lowest bid from technically qualified vendor.
11. The tender documents can be sent at the following address:

**The Chariman
Department of Physics
Indian Institute of Science, Bangalore 560012
Karnataka (INDIA)
Kind Att: Prof. Jaydeep K Basu.**