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ENQ No.: IITK/PHY/SBH/2013/NC-07

Enquiry date: 22.08.2013

Closing date: 02.09.2013

Sub: Inviting sealed quotation for the following items.

Dear Sir/Madam,

Sealed quotations are invited and should reach the undersigned latest by the 02nd Sept, 2013 for the following items:

1. **Physical Vapor Deposition System backed by TurboMolecular pump (Quantity: 01)**

Specifications: Should contain all the standard features of a physical vapor deposition system with capability of producing metallic thin films of thicknesses in the range of angstroms to microns.

- Chamber and Vacuum Pumps: 12” Quick Access Door, 250 l/s Turbo Pump
- Deposition Sources: 1/2/3 Thermal Evaporation Boats with Shutters
- Deposition Stage: Min. 1” (25.4mm) Sample Size, Continuous Rotation
- In-Situ Process Monitoring Tools: Quartz Crystal Deposition Rate Monitor
- Gauges: Full Range Gauges of good quality
- Basic Automation Package (e.g. Pressure Readout, Stage Heating and Rotation)

2. **Closed cycle refrigerator upto Liquid Helium temperatures (Quantity: 01)**

Specifications: Should allow all basic measurements such as conductivity etc. at Liquid He temperatures with proper loading of samples to perform the measurements. Some of the specifications which are not exhaustive include,

- Temperature range : 4 K - 325 K
- Cool down time (typical) : 30 – 35 min to 20K
- Power supply : 220 VAC ($\pm 10\%$) / 1 phase / 50 Hz
- Standard Temperature controller
- Standard Temperature sensors
- Electrical measurements (at least 10-pin electrical feed-through)
- Sample holders

Terms and conditions:

1. Maximum educational discounts should be applied – this equipment will be used for research purposes only.
2. The quotation should have a validity of minimum 90 days.
3. The delivery period should be specifically stated.
4. Warranty period should be mentioned and whether after-sale services are available in India or not.
5. Quotes should be made options for the following delivery modes
 - I. FOB in country of origin
 - II. CIF, New Delhi
6. Quotation should carry proper certifications like authorization certificate, proprietary certificate, etc. (if applicable).
7. Please mention tender notice number on top of envelop.

Kindly arrange to send the quotation(s) with detailed specifications of the item in a sealed envelope to the following address on or before the closing date.

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Thanking you

Sudeep Bhattacharjee