



भारतीय प्रौद्योगिकी संस्थान कानपुर
Indian Institute of Technology Kanpur

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16 December 2015

Enquiry No. **IITK/CHM/TGG/2015/005**

Last date: 16th December 2015

Extended to: 23rd December 2015

Sub: Request for quotation for Ultra-High Vacuum (UHV) ready Scanning Tunneling Microscope (STM)

Dear Sir/Madam

Kindly send us a sealed quotation (technical and financial) for the following item. Quotations should be addressed to **Dr. Thiruvancheril G. Gopakumar, Department of Chemistry, IIT Kanpur 208016**, and must reach on or before 16th December, 2015. The last date is extended to 23rd December 2015.

Thanking you

T. G. Gopakumar

Scanning Tunneling Microscope (STM)

This STM will be installed in an upcoming Ultra-High Vacuum (UHV) chamber. A commercial (RHK Technology, Inc.) scanning probe microscopy controller is available and the STM should be easy to integrate with it or provide interface options for easy integration of STM with existing control electronics.

Scanning Tunneling Microscope (STM) Specifications:

1. Operation capable for ambient environment
2. Ready to use in Ultra-High Vacuum (UHV) chamber
3. STM scan head:
XY: 5 μm and Z: 0.60 μm
4. Resolution:
X,Y: 50 pm & Z: 5 pm
5. Thermal drift < 1 $\text{\AA}/\text{min}$
6. Scan head flange (connecting to UHV): 6.0" OD CFF
7. STM should be easy to integrate with existing control electronics from RHK (Requires proof/examples of such integrated systems)
8. Viton vibration isolation for scan head
9. 1 ambient sample holders
10. 2 sample holders suitable for working with liquids (for solid-liquid interface applications). This should be further discussed while finalizing the purchase.
11. Installation and Training

Terms and Conditions:

1. Price should include transportation and insurance until Kanpur
2. Warranty: 1 year or more