

**NOTICE INVITING QUOTATION
22.01.2013**

NIQ Ref. No.: IITD/PHY/2012_13/AFM

Quotations are invited for AFM probes with the following technical specifications:

Due Date: 11-02-2013

S. No	Item	Quantity
1.	<p>Electrical probes for CAFM</p> <p><i>Cantilever:</i> Material: Si, frequency ~ 12 kHz, spring constant: 0.02-0.8 N/m, shape: rectangular, reflex coating: Pt/Ir, length~ 450 μm, width ~ 40 μm, thickness~ 2.5 μm</p> <p><i>Tip</i> Material: Si, coating Pt/Ir, Shape: pyramidal, height: ~ 14-16 μm, aspect ratio ~ 1.5-3.0, ROC ~ 30 nm</p>	180 probes
2.	<p>Tapping mode AFM probes:</p> <p><i>Cantilever:</i> Material: Phosphorus (n) doped Si,, resonant frequency: ~ 300 kHz, spring constant: 20-80 N/m, length: 125 μ, width: 30-40 μ, thickness: 3.5 to 4.5 μm</p> <p><i>Tip:</i> Geometry: Anisotropic, height: 10μm - 20μm, ROC: 10-15 nm, front angle: 15°, side angle: 17.5°, Back angle: 25°</p>	100 probes
3.	<p>Contact mode AFM probes:</p> <p><i>Cantilever:</i> 4 cantilevers per substrate Material: Silicon Nitride, resonant frequency: 40-75 kHz, spring constant: 0.06-0.58 N/m, length: 100-200 μ, width: 20-30 μm, 33-49 μm, 13-21 μm,18-28 μm, thickness: 0.4 to 0.7 μm, Au reflective coating on backside</p> <p><i>Tip:</i> Geometry: cast, height: 2.5μm – 3.5μm, ROC: 20-60 nm, front angle: 35°, side angle: 35, Back angle: 35°</p>	200 probes

TERMS and CONDITIONS:

- The quotation, in sealed envelope marked as "Ref: IITD/PHY/2012-13/AFM" should reach the undersigned on or before **11-02-2013**. **Separate quotations should be submitted for technical bid and commercial bid in two separate and clearly marked envelopes. Please provide agency certificate and proprietary certificate wherever applicable.** The prices quoted must include **CIF New Delhi Airport** charges.
- Institute reserves the right to accept/ reject all/ any quotation without assigning any reason thereof.
- The delivery period should be clearly indicated in the quotation.
- Incomplete and conditional submitted tenders would be summarily rejected.
- The mode of payment should be clearly indicated.
- Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.

9. In case the quotation is being submitted by authorized agent of the principal manufacturing company, the AUTHORISED SALES AGENCYSHIP certificate from the PRINCIPALS should be furnished along with the quotation. Quotations without this authorization certificate will be rejected.

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