

**GURU JAMBHESHWAR, UNIVERSITY OF SCIENCE & TECHNOLOGY,
HISAR**

INVITATION FOR QUOTATION

You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Scanning Probe Microscope	1	60	Department of Bio & Nano Tech. GJUS&T, Hisar.	No

You are requested to provide your offer latest by 16:30 hours on 21-Jun-2016. Sealed quotation to be submitted/ delivered at the address mentioned below,

Department of Bio & Nano Technology, Guru Jambheshwar University of Science and Technology Hisar Haryana

**HISAR
DATED:**

REGISTRAR

INVITATION FOR QUOTATION

TEQIP-II/2016/HR2G03/Shopping/17

06-Jun-2016

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Scanning Probe Microscope	1	60	Department of Bio & Nano Tech. GJUS&T, Hisar.	No

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase II** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - 3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.

6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

6.2 confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

9. Payment shall be made in Indian Rupees as follows:

Delivery and Installation - 100% of total cost

Satisfactory Acceptance - 0% of total cost

10. All supplied items are under warranty of **12** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **16:30** hours on **21-Jun-2016** .

12. Detailed specifications of the items are at Annexure I.

13. Training Clause (if any) **Yes**
14. Testing/Installation Clause (if any) **Yes**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,
Department of Bio & Nano Technology, Guru Jambheshwar University of Science and Technology Hisar Haryana
17. Before, release of the payment, the successful bidder will be required to a performance warranty in the form of bank guarantee equal to 10% of the purchase order for the warranty period of the equipments.
18. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)
 Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	Scanning Probe Microscope	<p>System should have sample-scanning system in XYZ, maintaining the X, Y and Z position of the tip constant/ moving while scanning with respect to the laser and photodetector position at all times. The system should provide autotune and auto-phase-adjust, finding cantilever resonance and adjusting phase measurement with a single click. Optics</p> <p>Optics FOV 480µm x 360µm or better. 5x or more software controlled, motorized, continuous optical zoom. CCD should be IMP or better. 1 µm optical resolution or better with standard 10x objective LED illumination under software control, thermally shielded from AFM head and scanner. Manual illumination control is not acceptable.</p> <p>Scanner Able to operate both in Open and Closed-Loop. Maximum scan area 50µmx50µm or better in XY and Z: 8µm or above. Scanner of single module flexure design with two separate scanners - one for XY and another for Z scanning. The motorized XY and motorized Z scanners</p>

		<p>should be mechanically driven by piezoelectric materials to improve dynamic performance as well as stationary positioning. More than one scanner if a single scanner cannot cover the above scanner specifications, but maximum scan area capability should be > 5µm x 5µm x 2.5µm in X, Y & Z respectively. By automatic sequential imaging, the AFM system should perform sequenced scanning of sample at the user-ed coordinates, comprising of image scan, cantilever retract, move to the next ed coordinate, tip approach, and repeat. Minimum performance System should achieve demonstratable atomic resolution on graphite or mica with the offered scanner System noise floor in Z, open loop < 0.02nm RMS, Z resolution: 0.015nm Position detector noise for Z: 0.03nm or better in 1kHz bandwidth. XY Resolution: 0.05nm or better in open loop. Position detector noise for XY: < 0.25nm or better at 1kHz bandwidth. Z scanner must have Vertical noise: 0.02nm or better and topography noise of 0.05 nm or better. Required modes in the SPM System Able to perform all of the standard and optional modes mentioned below without changing and removing scan head.</p> <p>Standard Modes Contact mode Tapping mode/ Dynamic Force Microscopy Lateral Force Microscopy Phase Imaging. Auto Image Scanning mode fully automates AFM imaging. A Nanomechanical mode for nanoindentation/ nanolithography and nanomechanical characterization STM Mode F-d and F-V Spectroscopy Imaging samples in liquid medium 3 KVA UPS 2h back up. Sample Stage Accept samples sizes up to 40mm x 40mm and 15mm high or better. Fully motorized XY and Z-stage movement with software-controlled pitch and tilt corrections. XY movement 20mm x 20mm or more. Z movement should allow sample thicknesses above 15mm or more. Stage should be capable of automatic scanning with independent parameters at different locations on the sample. Ease of Use and Productivity Preferable to have pre-mounted and pre-aligned cantilevers and capable to change cantilevers or samples without removing scan head; Facility to let even untrained operators to use AFM with a single click of mouse in auto mode Control Electronics Should have: 16-bit or above digital-to-analog converters for scan control in X, Y and Z 3 independent software controlled lock-in amplifiers with separate amplitude and phase outputs 8 or more dedicated 500 kHz or more 16-bit A/D converters Completely automatic engage under software control Minimum Sampling Rate 500kHz or better Images with maximum data pixels size of 4k x 4k or</p>
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		<p>better Pneumatic Vibration Isolation Table (Imported). Data Acquisition Software Should:</p> <ul style="list-style-type: none"> • display at least 16 or more imaging Channels. • have the ability to sweep frequency in both directions in Auto-Tune. • have zero phase adjustment capability in phase imaging for maximum sensitivity • provide probe-positioning routine with linking capability to I/V and force curves • be capable to overlay the amplitude & phase signal in Auto-Tune. • Single click transfer of partial images into analysis suite <p>PC, Software Branded PC: 8 GB RAM, 1 TB HDD, Dual 23 inch LED monitors of HP Operating System: Windows 7 Prof or higher Should quote the following optional items</p> <p>Environmental Control device for inert gas applications with heating facility in temperature range of 4°C to 110°C in air and 4°C to 70°C in liquid medium Temperature stage for sample heating from ambient to 250°C or more. Scanning Capacitance Microscopy Application Module (SCM) Scanning Thermal Microscopy Application Module (SThM) Nanoindentation (NI) Magnetic Force Microscopy (MFM) Electrostatic Field Microscopy (EFM)</p> <p>Original technical literature obtained from principals be enclosed Must submit a table indicating the compliance of the features with those given in quotation. Minimum one year warranty Spare parts /calibration samples be supplied with the instrument. The Indian representative should have should have service engineers trained by ma</p>
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FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____