

Global Tender Notification for the procurement of “High Resolution Atomic Force Microscope for Biological and Biomaterials Applications” at Department of PHYSICS, Indian Institute of Science Bangalore

(Last date of submission of tenders: 14th June 2023)

This is a Request for Quote (RFQ) from Foreign/ International Original Equipment Manufacturer (OEM) or their Indian authorized distributor for the supply of “**High Resolution Atomic Force Microscope for Biological and Biomaterials Applications**” as a part of a tender for the Department of Physics at Indian Institute of Science.

The global tender comes without GTE approval since, the equipment is exempted from GTE approval process vide the government order, OM No. F 4/1 12022-PPD(pt) Dated the 21st June,2022 which provides relaxation on global tender enquiry (GTE) under rule 161(iv) of General Financial rules (GFRs) 2017 for procurement of medical devices.

The equipment is listed in Sl. No. 105

Please send your quotation valid for 120 days for the supply of equipment described below.

Your quotation should indicate the terms and conditions of the quotations, delivery, delivery schedule, entry tax, payment terms, warranty coverage etc.

The tender should be submitted in two separate sealed envelopes – one containing the "Technical bid" and other containing the "Commercial bid", both of which should be duly signed and must reach the undersigned **on or before 17:00 hours 14th June 2023**.

C.I.P. Bangalore basis (by Air Freight only). Your quotation should mention the terms of delivery, delivery schedule, estimated delivery date, and payment terms.

The bids should be addressed to:

The Chairperson,
Department of Physics
Indian Institute of Science
Bangalore – 560012, India
With attention to: **Prof. Jaydeep Kumar Basu**

Please enclose a compliance statement along with the technical bid.

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Section 1 - Bid Schedule

1	Tender No	PH/GEN/JKB/552/2023-24
2	Tender Date	23rd May 2023
3	Item Description	Supply and installation of High Resolution Atomic Force Microscope for Biological and Biomaterials Applications at Physics, IISc Bangalore
4	Tender Type	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	Place of tender submission	The Chairperson Office Department of Physics Indian Institute of Science, Bangalore 560012
6	Last Date & Time for submission of tender	on or before 17:00 hours 14 th June 2023
7	For further clarification	Prof. Jaydeep Kumar Basu Department of Physics Indian Institute of Science, Bangalore 560012 Email: basu@iisc.ac.in Phone: +91 80 2293 3281

Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder's firm should have existed for a minimum of 5 years. (Enclose Company Registration Certificate). Minimum five installations of the same model in India in well-established institutes like IISc, IITs, IISERs and CFTIs in the last 5 years with the offered configuration is mandatory.
2. The bidder should enclose the feedback of the customers.
3. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
4. If the Bidder is a local distributor/dealer/Agent, attaching an authorization certificate with the technical bid from the original equipment manufacturer is mandatory.
5. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per Annexure 4.
6. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.

Section 3 – Terms and Conditions

1 Submission of Tender:

1. All documentations in the tender should be in English.
2. The tender should be submitted in two envelopes (two-bid system).
 - a. Technical Bid (Part-A) – Technical bid consisting of all technical details and a checklist for conformance to technical specifications. The technical proposal should contain a technical compliance table with 5 columns.
 - i. The first column must list the technical requirements in the order given in the technical requirement below.
 - ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible.
 - iii. The third column should only describe your compliance with a "Yes" or "No". Ensure that the entries in column 2 and column 3 are consistent.
 - iv. The fourth column should state the reasons/explanations/context for any deviations.
 - v. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features, qualify response of previous columns, provide further details, compare your solution with your competitor or provide details as requested in the technical requirements table below. (Suppliers who include any indication of prices in the technical bid will be automatically disqualified).
 - b. Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, **as per the quotation format provided in tender**, and other commercial terms and conditions.
3. The technical and price bids should each be placed in separate sealed covers, superscribing the tender no. and the due date on both the envelopes. Both these sealed covers are to be placed in a bigger cover, which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
4. The SEALED COVER superscribing tender number / due date & should reach Chairperson Office, Department of Physics, Indian Institute of Science, Bangalore – 560012, India. on or before the due date mentioned in the tender notice. If the due date happens to be a holiday, the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
5. All queries are addressed to the person identified in "Section 1 – Bid Schedule" of the tender notice.
6. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document.
7. If the price is not quoted in Commercial Bid as per the format provided in the tender document, the bid is liable to be rejected.
8. The vendor should have qualified technical service personnel for the equipment based in India and should assure a response time of < 48 hours.
9. Technical evaluation by the purchase committee may include a demonstration to verify functionalities and capabilities of the system quoted. The institute reserves the right to

providesamples after opening the technical bids to verify promised specifications. Any discrepancy between the promised specifications and measurements will be deemed as technical non- compliance. The quality of the data will also be considered during the technical evaluation.

10. Imported items should be shipped on C.I.P. Bangalore basis (by Air Freight only), and all components and accessories indicate component-wise and itemized breakup. Provide certificates for the country origin of manufacturing for each line item. The price of every lineitem in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (installed and ready to use) in our facility.
11. The purchase committee reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time before the award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder orbidders.
12. Incomplete bids will be summarily rejected.

2 Cancellation of Tender:

Notwithstanding anything specified in this tender document, the IISc purchase committee, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

1. To accept OR reject the lowest tender or any other tender or all the tenders.
2. To accept any tender in whole or in part.
 - a. To reject the tender, if it does not conform with the terms.

3 Validity of the Offer:

The offer shall be valid for 120 Days from the date of opening of the commercial bid.

4 Evaluation of Offer:

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall onlybe considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or during commercial evaluation. The decision regarding acceptance and/or rejection of any offer in part or whole shall be the sole discretion of IISc Bangalore, and the decision in this regard shall be binding onthe bidders.
4. The contract award will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable tobe rejected:
 - a. Non-submission of complete bids.
 - b. Receipt of bids after due date and time or by email/fax (unless specified otherwise).
 - c. Receipt of bids in open conditions.
6. If any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shallconstrue that the BIDDER had accepted the clauses as of the tender, and no further

claim will be entertained.

7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. The lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, preprocessing, and post-processing, optional items, recommended spares, warranty.

5 Pre-requisites:

The bidder will provide the pre-requisite installation requirement of the equipment along with the technical bid.

6 Warranty:

The complete system is to be under a warranty period of a minimum of 1 year + 2 years additional warranty (year-wise breakup value should be shown in the commercial bid). The vendor should include the cost of any spares that are expected to be needed during the warranty period, including electronics, subcomponents, and software. Vendors can assume usage of 2000 hours/year for this calculation. If the instrument is found to be defective, it has to be replaced or rectified at the bidder's cost within 30 days from the date of receipt of written communications from IISc, Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

Any update on the software during the warranty period should be provided.

7 Purchase Order:

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in the tender reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

8 Delivery, Installation and Training

1. The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore, from the date of receipt of a purchase order.
2. The system should be delivered, installed and made operational within 12 weeks from receipt of the purchase order.
3. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore.
4. The system must be installed and demonstrated by trained service engineers at our laboratory free of charge within 15 days once the site readiness confirmation is communicated.
5. After successful installation, the handover date shall be the start of the warranty period.
6. No partial shipment is allowed.
7. If the goods are found to be defective, they must be replaced or rectified at the cost of the supplier within 30 days from the date of receipt of written communication from us. If there is

any delay in replacement or rectification, the warranty period should be correspondingly extended.

8. The bidder should also arrange technical training for the local facility technologists and users.

9 Payment Terms:

1. Advance Payment of 90% and 10% after successful and satisfactory completion of Installation, demonstration and training on site.
2. Price basis must be on C.I.P. Bangalore basis (by Air Freight only),

10 Statutory Variation:

Any statutory increase in the taxes and duties subsequent to the bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore, subject to the claim being supported by documentary evidence. However, if any decrease takes place, the advantage will have to be passed on to IISc, Bangalore.

11 Disputes and Jurisdiction:

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

12 General:

1. All amendments, time extensions, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional necessary information to establish capabilities to successfully complete the envisaged work. It is, however, advised not to provide superfluous information.
3. The bidder may visit the installation site before submission of tender, with prior intimation.
4. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.

Section 4 – Technical Specifications

Technical Specifications High Resolution Atomic Force Microscope for Biological and Biomaterials Applications

A complete fast scanning AFM system for high resolution imaging with, biological samples and materials like Bacteria, Viral Proteins, lipid membranes, Proteins, nanomaterials, etc. The system should include all accessories to allow operation in air & liquids along with temperature controller.

Following modes should be included in Biological AFM system:

Full complement of operating modes for fluid and air operation

1. Contact Mode
2. Force Mapping Mode (Force Volume)
3. Ability to perform Amplitude-distance (A-d) spectroscopy in dynamic AFM mode.
4. Bimodal AFM – Simultaneous excitation and detection of two eigenmodes. Higher eigenmode excitation beyond 2 MHz should be possible.
5. Lateral Force Mode. Quantitative Lateral Force Microscopy (LFM) – Friction force calibration option with ability to acquire friction loop.
6. Q Control
7. Force Curve Mode / Force spectroscopy
Should have facility to perform force clamp and force ramp measurements. Software must allow arbitrary number of force curve segments with multiple feedback options (constant force, constant height, etc.)
6. AFM head must have auto height compensation by motors
7. Electric Force Microscopy (EFM)
8. Magnetic Force Microscopy (MFM)
9. Piezoresponse Force Microscopy (PFM)
10. Surface Potential Microscopy / Surface Kelvin Probe Microscopy (SKPM)
11. Conductive AFM (CAFM) The system should allow conductive measurements while scanning as well as at user specified locations (I-V curves). A sample bias of -10V to 10V

is possible. The software allows user-specified wave forms for I/V spectroscopy (square, sine, triangle, pulse, or user defined). Optional Dual Gain should be included to simultaneously monitor current in two separate gains stages of $1\mu\text{A/V}$ and 1nA/V sensitivities. Since the two channels are acquired simultaneously, there should be no need to withdraw and switch the stages when the current saturates in the higher gain stage. The current sensing range should be 10pA to $10\mu\text{A}$

12. Liquid Imaging Mode - high resolution imaging in liquid environment either by tuning the cantilever resonance frequency through by photo thermal, not by piezo, or by imaging at off-resonance frequency by driving the z scanner in sinusoid fashion. Imaging should be done at typical tapping mode imaging speeds (<2 min per image).

13. Quantitative Nano Scale Maps - System configuration must include an imaging mode that is capable of generating quantitative nanoscale maps of storage and loss modulus, and loss tangent (loss modulus divided by storage modulus), at high pixel resolution (at least 1024×1024 pixels). Data capture must occur during normal AC mode imaging of topography at normal scan rates (<20 minutes per scan).

14. Optical Microscope Integration: AFM system should be compatible with an inverted optical microscope (IOM)/Fluorescence Microscope (IFM). AFM adapter stage assembly for microscope attachment should be available to mount AFM on the IOM for simultaneous optical and AFM imaging along with required accessories should be offered. The AFM upgrade as such for use with an Optical microscope could be considered as an optional upgrade.

AFM specifications:

Noise Characteristics and AFM function:

1. AFM should have decoupled closed loop scanners in X, Y and Z directions. XY (actuator) scanning direction should be decoupled with Z-actuator. Typical tube scanner arrangement is not acceptable. The XY Scanning must be tip/sample scanning.
2. AFM should have XY scan range of $100\ \mu\text{m}$ or more and Z-scan range $> 15\ \mu\text{m}$ (Closed Loop). Preferably be extended to $30\ \mu\text{m}$ or more.
3. Z-sensor
 - a. Noise less than $0.2\ \text{nm}$ (RMS) for entire range of Z scanner.
 - b. Z-height noise should be $<50\text{pm}$ (RMS) in $<1\text{kHz}$ bandwidth.
4. Cantilever deflection noise should be better than 15pm (RMS).
5. XY scan noise should be better than 0.5nm (RMS). These specifications should be demonstrated in the lab after installation.
6. All noise data should be in RMS.
7. AFM should be compatible with sample heights of 15mm or higher. Sample stage should be compatible for samples with high profiles.
8. AFM should include Top-view optics for both standalone operation (without inverted microscope) of AFM.

9. Software overlay of optical images on AFM data. Optical Imaging hardware and software should seamlessly integrate so that the user can choose region of interest in optical image to be scanned by AFM tip. This should work for all AFM modes (imaging, force maps, viscoelastic maps, force spectroscopy, etc.).

Sample Stage

1. Should accommodate large samples >100mm and 15mm in height
2. Motorised stage to have resolution <1µm
3. Stage must be compatible with various types of samples like glass slides, Petri dishes, coverslips, metal discs, etc.

Control Computer and Monitor:

The system should be supplied with latest computer workstation tried & tested in factory by the manufacturer. It should have at least the following specifications: Windows 10 Professional (64 bit) operating system, Intel 10-Core Xeon processor/AMD Ryzen, minimum 64 GB RAM, NVIDIA GeForce GTX 1050 or equivalent graphic card, 512 GB SSD, 4 TB SATA HDD, Slim Super Multi DVD Writer, Ethernet Controller, 2 x USB 2.0, 8 x USB 3.0, IEEE 1394 Firewire with wireless Key Board and Mouse with 32 inch or larger Flat Panel Display

Software Requirements

1. Extensive Force mapping and detailed analysis capabilities.
2. The system's software must include contact mechanics models for interpreting the sample modulus from a wide range of force-curve tip-sample interactions. The software must also indicate the relevance, such as a goodness of fit indicator, of the model fit to user data. The software must also provide a model selection guide which can indicate which is the most appropriate mechanical model for analysing individual force-curves in a force curve map.
3. Software must be able to capture image to ensure capability to capture images of large areas (micron scale) that also contain important higher resolution features (nm scale)
4. Software must include advanced features to automatically optimizes the imaging gain and setpoint for Intermittent Contact Mode (tapping mode) operation. Must work in ambient, high temperature and liquid environment.
5. User should be able to export raw data from every AFM module as text files for offline custom analysis using preferred software

Acoustic and Vibration Isolation

1. AFM system should include necessary acoustic noise enclosure and active vibration isolation table. The dimension should be able to hold the entire AFM (including top-view optics) and the inverted microscope with extra space for convenient working around the system. Vibration isolation should be active.

Environmental Control and Fluid Cell - Quote optionally

1. Temperature cell in the range ambient to 250 C or higher.
2. Bio imaging fluid cell (can work in both sealed (for evaporation) and open configuration) with multiple inlet and outlet ports for fluid/gases and should maintain thermal stability. Fluid cell should maintain visualization from both top view optics as well as bottom view through microscope.

Specification for Inverted Optical/Fluorescence Microscope

1. The high resolution Bio AFM should be integrated fully with IOM/IFM system to achieve the following capabilities and required microscopy kit to be included in AFM supply, inverted optical microscope should have brightfield, Phase contrast and fluorescence capabilities as minimal with required hardware and software. In addition, must also include the following:
2. Light Source
3. At least 2 Objective
4. Binocular tube and eye piece
5. Condenser
6. AFM and Image overlay function must work with IOMs Bright Field, functionality of IOM/IFM. Simultaneous acquisition of AFM image and all the IOM/IFM imaging modes is a must.
7. All other accessories necessary to integrate IOM/IFM to BioAFM.
8. Additional Warranty for 2 years on all parts and labour.
9. Any other Accessories.

Support and Service

1. The system must be supported with spares and firmware upgrades for at least 15 years.
2. Must include free AFM software upgrades for the life of the instrument.

Optional Accessories / Modules

Optional accessories, ancillary / additional attachments etc. shall be considered for purchase depending on the budget. Vendors must state / certify in unambiguous term that the AFM system offered will be compatible with all these attachments in case these are purchased separately now or later. All these OPTIONAL items must be quoted.

Training and demonstration

The successful bidder must provide training (hardware and software) at the bidder's cost to the users at IISc, Bangalore.

Section 5- Technical Bid

The technical bid should furnish all requirements of the tender along with all annexures in this section and submitted to

The Chairperson,
Attn: **Prof. Jaydeep Kumar Basu**
Department of Physics.
Indian Institute of Science
Bangalore – 560012, India

Annexure-1:

Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

Sl. No	Items	Details
1.	Name of the Bidder	
2.	Nature of Bidder (Attach an attested copy of Certificate of Incorporation/ Partnership Deed)	
3.	Registration No/ Trade License (attach attested copy)	
4.	Registered Office Address	
5.	Address for communication	
6.	Contact person- Name and Designation	
7.	Telephone No	
8.	Email ID	
9.	Website	
10.	PAN No. (attach copy)	
11.	GST No. (attach copy)	

Signature of the Bidder

Name
Designation, Seal

Date:

Annexure-2:

Declaration regarding experience

To,
The Chairperson,
Department of Physics
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: PH/GEN/JKB/552/2023-24 Dated: 23rd May 2023

Supply and installation of atomic force microscope with various scanning probe capabilities at
Department of Physics, IISc Bangalore

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I declare that my company/firm has ----- years of experience supplying and installing High Resolution Atomic Force Microscope for Biological and Biomaterials Applications.

(Signature of the Bidder) Printed Name
The designation, Seal Date:

Annexure-3:

Declaration regarding track record

To,
The Chairperson,
Department of Physics
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: PH/GEN/JKB/552/2023-24 Dated: 23rd May 2023

Supply and installation of High Resolution Atomic Force Microscope for Biological and Biomaterials Applications with various scanning probe capabilities at Department of Physics, IISc Bangalore

Sir,

I've carefully gone through the Terms & Conditions contained in the above-referred tender. I declare that my company/ firm is not currently debarred/blacklisted by any Government / Semi-Government organizations/institutions in India or abroad. I further certify that I'm a competent officer in my company/firm to make this declaration.

Or

I declare the following

Sl.No	Country in which the company is Debarred /blacklisted / case is Pending	Blacklisted/debarred by Government / Semi Government/Organizations /Institutions	Reason	Since when andfor how long

(NOTE: If the company/firm was blacklisted previously, please provide the details regarding the period for which the company/firm was blacklisted and the reason/s for the same).

Yours faithfully (Signature of the Bidder)

Name Designation, Seal

Date:

Annexure – 4:

Declaration for acceptance of terms and conditions

To,
The Chairperson,
Department of Physics,
Indian Institute of Science
Bangalore – 560012, India

Ref: Tender No: PH/GEN/JKB/552/2023-24 Dated: 23rd May 2023

Supply and installation of High Resolution Atomic Force Microscope for Biological and Biomaterials Applications at Physics, IISc Bangalore

Sir,

I've carefully gone through the Terms & Conditions mentioned in the referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder) Name
Designation, Seal

Date:

Annexure – 5:

- a. Details of items quoted:
- b. Company Name
- c. Product Name
- d. Part / Catalogue number
- e. Product description / main features
- f. Detailed technical specifications
- g. Remarks

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with the technical bid.
3. Bidders should clearly indicate compliance or non-compliance with the technical specifications provided in the tender document.

Section 6 – Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

S.No	Description	Cat. Number	Quantity	Unit Price	Subtotal
1.	Essential items noted in the technical specification				
1.a	... (details of essential items)				
1.b	...				
2.	Optional items noted in the technical specification				
2.a	... (details of essential items)				
2.b	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (1+2 years)				
6.	Cost of Insurance and Airfreight				
7.	CIP/CIF IISc, Bengaluru				

Any additional items

S.No	Description	Cat. Number	Quantity	Unit Price	Sub total

Addressed to The Chairperson,
 Attn: Prof. Jaydeep Kumar Basu
 Department of Physics.
 Indian Institute of Science
 Bangalore – 560012, India

Section 7 – Checklist

(This should be enclosed with the technical bid- Part A)

The following items must be checked before the Bid is submitted:

1 Sealed Envelope "A": Technical Bid

1. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:
 - a. Annexure 1: Bidders details
 - b. Annexure 2: Declaration regarding experience
 - c. Annexure 3: Declaration regarding clean track record
 - d. Annexure 4: Declaration for acceptance of terms and conditions
 - e. Annexure 5: Details of items quoted
2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

2 Sealed Envelope "B": Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) superscribing on both the envelopes with tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly superscribed with tender No., Tender description & Due Date.