



भारतीय प्रौद्योगिकी संस्थान इन्दौर
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IIT Indore

NIT No.: IITI(MM)/NIT/SIC/1/1A/0416/MS/2017-2018R

January 08, 2018

Pre-bid Report

Pre-bid queries and Responses for "IITI(MM/ NIT/SIC/1/1A/0416/MS/2017-2018R"
dated 18/12/2017 for "Supply of "High Resolution Atomic Force Microscope/Scanning Probe Microscope"

The meeting for Pre-bid discussion and presentation was held at IIT-Indore on 14/12/2017 at 11.00 AM. The report of the meeting is as below. All prospective/willing bidders are requested to take note of this report as part of the Tender document.

Sl. No.	Reference of the Tender Doc.	Query raised by	Query/Clarification/Deviation sought	Clarification/ Response from IITI	Remarks
1.	Technical Specification Annexure -I	Toshniwal Brothers (SR) Pvt. Ltd.	The AFM Automatic image optimization with auto adjustment of set point, gain, scan rate for easy imaging by selecting scan area and size using the software.	Specifications retained as we look forward to motorized and auto image optimization	Retained
2.	Technical Specification Annexure -I	Toshniwal Brothers (SR) Pvt. Ltd.	XY & Z Scanner XY Scanner must have scanner resolution of 0.05nm or better to using 10um scanner	XY & Z Scanner : Specifications of XY and Z scanner retained.	Demonstrate the resolutions of Z at the time of installation
3.	Technical Specification Annexure -I	Toshniwal Brothers (SR) Pvt. Ltd.	Motorized sample stage	Motorized sample stage We would like to have totally automated motorized XYZ Stage, kindly quote for the automated system Automated tip approach Please refer to point 3, we prefer automated system including tip approach and laser beam alignment.	Specifications retained

4.	Technical Specification Annexure -I	Toshniwal Brothers (SR) Pvt. Ltd.	Automated tip approach Z is Auto engage with Manual control. Automatic decision by Software.	Tip Sample Viewing We prefer to have direct view optics with 10 X objective lens and with 1 - 2 micron resolution. Video camera with best possible resolution can be provided Kindly quote above or with better Specifications.	Specs. generalized
5.	Point 3 - Scanners and Stage Specifications:	Forevision Instruments (India) Pvt. Ltd.,	Request to amend to "90µm x 90 µm or better scanner needs to be quoted for large area and small area scanning with better resolution".	Scanner size : 90 micron scanner or more can be quoted We would also prefer to have an additional 10 micron scanner for small area.	Specifications changed
6.	XY & Z Scanner: The XY scanner must have scan resolution of 0.05nm or better using 10um scanner	Forevision Instruments (India) Pvt. Ltd.,	Please Remove "Scanner design should be flexure hinge type", as the same is being offered by a few manufacturers and Bruker adopted a different technique better than "flexure hinge type" that is capable of giving atomic resolution scans of about <500nmx500nm even with single large scanner.	We prefer to have flexure scanner design, to avoid flattening of image each and every time by software algorithm. FYI, we are aware that several manufacturers have adopted to the latest flexure design now, to eliminate cross talk and bowing effect. XY Scanner: We have asked for scanners including 10 micron, and we would like to have resolution of 0.05 nm or better. Z axis resolution of 0.02 micron or better can be quoted.	Specifications retained
7.	Motorized Sample Stage:	Forevision Instruments (India) Pvt. Ltd.,	Request to amend to "Must come with motorized stage with automated tip approach, focus and stage control, with a feature of automated imaging of different location on a single larger sample or different samples.	The minimum sample size could be 50mm x 50mm or more and with minimum of 20 mm thickness or more can be offered.	Specifications changed

8.	Point 4 - AFM Controller:	Forevision Instruments (India) Pvt. Ltd.,	Request to amend to "The AFM controller should come with a high performance processing unit with in-built 2 or more digital lock-in amplifiers".	AFM Controller We would like to have image acquisition from 256 x 256 pixels to 2 k x 2 k pixels or better at least up to 4 k x 4 K so that if required image could be zoomed in without any pixelating issues	Specifications changed on image acquisition
9.	Point 6 - Tip-sample Viewing:	Forevision Instruments (India) Pvt. Ltd., and Toshniwal Brothers (SR) Pvt. Ltd.	Request to amend to "The Microscope Optics must include a 5MP digital camera"	Tip Sample Viewing We need to have 1 micron resolution for the direct view optics. Minimum of 1.2 MP digital camera or higher specs can be quoted	Specifications retained
10.	Point 9 - Computer and Software and Laser Color Printer	Forevision Instruments (India) Pvt. Ltd.,	Computer As each manufacturer supply PC and monitors which are latest and customized for their AFM, hence you are requested to remove the specs of PC and monitor and read as "Latest branded PC with monitors suitable for the quoted AFM"	Computer Specs : Agreed. Latest PC with suitable monitors one for acquisition and other for processing can be quoted.	Specifications changed on this genuine request
11.	Clarification of EMD Exemption : Point No: 03 General Terms and Condition for Tender Part IV	GFR 2017 Rule 170	Micro and Small Enterprises (MSEs)	EMD Exemption clause (IV) Micro and Small Enterprises (MSEs)	Updated
12.	Under taking for Breakdown of system		Breakdown of system	Firms should submit the under taking for atleast 10 years for any breakdown of system.	Updated

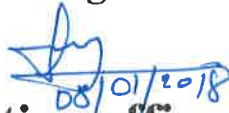
Revised Schedule:

Last date of bid submission: **23th January, 2018(TUESDAY) upto 03.00pm(IST)**

Opening of Technical bids: **23th January, 2018(TUESDAY) upto 03.30pm(IST)**

All prospective/willing bidders are requested to **take note of this report as part of the Tender document. All other parts of the tender including the terms and conditions of the will remain Unchanged.**

Administrative officer (MM)


08/01/2018
Suresh Chandra Thakur
प्रशासनिक अधिकारी
Administrative Officer
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