Global Tender Notification for the supply and installation of Focused Ion Beam at MNCF, CeNSE, IISc Bangalore

(Last date of submission of tenders: 28th January 2022)

Best quotations valid for 120 days are invited for the supply and installation of Focused Ion Beam at MNCF, CeNSE, IISc Bangalore. MNCF, CeNSE, IISc is seeking to replace the current FIB tool, which is near the end of its useful life. 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 28th January 2022.

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, Centre for Nano Science and Engineering Indian Institute of Science Bangalore – 560012, India With attention to: Dr. Suresha S J

Please enclose a compliance statement along with the technical bid.

Section 1 - Bid Schedule

1	Tender No			
2	Tender Date	07 th January 2022		
3	Item Description	Supply and installation of Focused Ion Beam at MNCF,		
		CeNSE, IISc Bangalore		
4	Tender Type	Two bid system		
		(i) Technical Bid (Part A)		
		(ii) Commercial Bid (Part B)		
5	Place of tender submission	Chairperson Office		
		First Floor		
		Centre for Nano Science and Engineering		
		Indian Institute of Science, Bangalore 560012		
6	Last Date & Time for submission of	28 th January 2022		
	tender			
7	For further clarification	Dr. Suresha S J		
		MNCF		
		Centre for Nano Science and Engineering		
		Indian Institute of Science, Bangalore 560012		
		Email: sureshasj@iisc.ac.in		
		Phone: +91 80 2293 3253		

Section 2 – Eligiility Criteria

Prequalification criteria:

- 1. The Bidder's firm should have existed for a minimum of 5 years. (Enclose Company Registration Certificate)
- 2. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
- 3. If the Bidder is a local distributor/dealer/Agent, attaching an authorization certificate with the technical bid from the original equipment manufacturer is mandatory.
- 4. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions.
- 5. The Bidder must not be blacklisted/banned/suspended by GOI 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).
 - 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 competitors 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, Centre for Nanoscience and Engineering, 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. The items are required for research purposes, and IISc is a DSIR registered institution, hence eligible for GST exemption (i.e. GST @ 5%). While submitting the price quote, this point must be taken care of. For getting a GST exemption certificate, successful bidders must submit a formal request together with an Invoice copy and Purchase order copy.
- 7. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document.
- 8. 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.
- 9. The vendor should have qualified technical service personnel for the equipment based in India and should assure a response time of <48 hours.

- 10. Technical evaluation by the purchase committee may include a demonstration to verify functionalities and capabilities of the system quoted. The purchase committee reserves the right reject the bids based on their technical evaluation of the quality of data, capability demonstration and service. If the data/requested capability demonstration does not happen within a stipulated timeframe, the bid will be rejected. Any discrepancy between the promised specifications and measurements will be deemed as technical non-compliance. 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 line item 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 or bidders.
- 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.
- 3. To reject the tender, if it does not conform with the terms.

4. Validity of the Offer:

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

5. Evaluation of Offer:

- 1. The technical bid (Part A) will be opened first and evaluated.
- 2. Technical data, including the quality of images and capability demonstration, will be considered.
- 3. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
- 4. 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 on the bidders.
- 5. The contract award will be subject to acceptance of the terms and conditions stated in this tender.
- 6. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be 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.

- 7. If any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall construe that the BIDDER had accepted the clauses as of the tender, and no further claim will be entertained.
- 8. 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.
- 9. 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 selected for installation, recommended spares, warranty.

6. Pre-requisites:

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

7. Warranty:

The complete system is to be under a warranty period of a minimum of 3 years (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. The cost for the extension of the warranty beyond three years should be mentioned separately, which is an optional item

8. Buy Back:

CeNSE, IISc is seeking to replace the current FIB tool, which near the end of its useful life. CeNSE, IISc has Dual Beam FIB Helios NanoLab 600i (FEI) installed in 2011. The vendors are requested to include buyback offer (Optional) requested to include buyback offer (Optional)

9. 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.

10. 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 90 days 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. After successful installation, the handover date shall be the start of the warranty period.
- 5. No partial shipment is allowed.

- 6. The bidder should provide onsight application training for the local facility technologists and users.
- 7. The bidder should also arrange technical training for the local facility technologists and users.

11. Payment Terms:

- 1. 100% payments will be released after completion of delivery and satisfactory installation subject to TDS as per rules.
- 2. AMC cost (if ordered), after completion of the warranty period) will be released on a half-yearly basis at the end of each six months subject to satisfactory services.
- 3. Price basis must be on FOR-IISc Bangalore basis only.

10. Statutory Variation

Any statutory increase in the taxes and duties subsequent to 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 extension, 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 information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
- 3. The bidder may visit the installation site before submission of tender, with prior intimation.
- 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

Item	Requirement	Indicate	Information needed
		compliance	from Vendors
Electron Column		1	1
Electron beam source	Schottky field emitter		
Electron beam Voltage range	350V or less- 30kVor more		Step size
Electron beam Current	1 pA or less to 100 nA or		Continuous/ stepped
range	more		Step size
Monochromator	A high-brightness electron		
(Optional)	source with new-generation		
	monochromator to reduce		
	the beam energy spread		
	below 0.2 eV for beam		
	currents up to 100 pA should		
	be quoted as an optional item		
Electron beam Landing	50 V or less to 30 kV or more		Methodology for
voltage			deceleration
Magnification	800000 x or more		
Resolution	At optimum working distance		Provide information,
	and at accelerating voltage of		State working
	a) 0.7 nm at 30 kV STEM or		distance and all
	better		operational
	b) 1.2 nm at 1 kV or better		parameters, such as
			aperture size etc,
	Best achievable resolution at		probe current, probe
	accelerating voltage of		size
	a) 30/20 keV		
	b) 15 keV		state for immersion
	c) 1keV		lens if and non-
	d) better than 1.2 nm at all		immersion lens if
	кеу		applicable
			state detector
Electron Beam probe size			Probe size vs probe
			or stopped Stop size
			or stepped step size
Electron beam current			Provide information
Stability	Stratagios for magnetic field		Describe for
wagnetic samples	free imaging		information
Aporturos aporturo sizes			Brovido information
and insertion and			
retraction methods			
Image acquisition system:	Image acquisition size Bit		Provide information
ההמצב מנקטוזונוטוו געזנפווו.	denth Electronic Image shift		
	Dynamic focus for stage tilt		
1	by name rocus for stage till	1	

Scan features	Point and line scan	Provide description
	Focus Window	Range, stepped or
	Image rotation, shift	continuous
	tilt compensation	
	Scan speed	
Field of View	Maximum without distortion	State operation
		parameters
Ion column	·	
Ion source	Ga liquid metal ion source	
	Source with 3000 µamp	
	lifetime / 3x1000 µamp hours	
	or more	
Ion beam voltage	2000 V or less to 30 kV or	Stepped or
	more	continuous State step
		size if applicable
Ion beam current	1 pA or less to 60 nA or more	Stepped or
		continuous State step
		size if applicable
Ion beam resolution	3 nm at 30 kV or better	
Probe size		Provide minimum
		probe size
		Provide probe size vs
		current data
lon beam profile	Circularity is necessary and	Provide tiff images at
	very important. Significant	Combinations of high
	deviation from circularity will	and low
	be cause for disqualification	Probe currents and
		sizes on a
Less has an willing wate	for Ci > 0.25 yrs3/aC	Standard Si sample
Ion beam milling rate	for SI \ge 0.25 μ m 7 nC	State operational
SEM EIR angle		Eor information
Magnification		For information
Working distance at dual		For information
beam coincidence point		
Ion beam apertures		Indicate sizes,
		movements and
		centering
		methodologies
Spatial resolution	At dual beam coincident	Indicate all operating
	point	conditions such as
		current, probe size,
	At accelerating voltages of 30	working distance,
	kV 5 nm or less	standard sample
Ion beam image	Image size and bit depth:	provide information
acquisition size and	Image shift:	
performance		

Beam control	Rotating the ion beam raster		
	in a 360-degree continuous		
	fashion and shall have a		
	function to reset this rotation		
	to 0 degrees.		
	Capable of reduced-raster.		
	spot-mode, and line-scan ion-		
	imaging modes		
	Users should have the		
	options to define raster		
	trajectories, spot overlap and		
	defocus values.		
IMAGING DETECTORS FOR	ELECTRON AND ION BEAM COLU	IMNS	
Secondary electron			
detectors at various			
locations			
In column/lens			
Detector SE			
In column/lens			
Detector BSE (optional)			
In chamber IR camera			
Probe current			
measurement			
Retractable STEM	The retractable STEM		
detector	detector enables scanning		
	transmission imaging on thin		
	samples in SEM		
In chamber Navigation	Navigation color optical		
camera	camera can be used to take		
	top-down images		
TENI AND ATONI PROBE SA	In situ misromaninulator for		
Requirements	transmission electron		
	microscopy (TEM) lamella		
	preparation with computer		
	control without operator		
	intervention		
	Pneumatic insertion and		
	retraction		
Micromanipulator	In situ manipulator with 4 (X		
performance	Y. Z. and R) degrees of		
	freedom, including on-axis		
	rotation		
	Manipulator should be with		
	high precision, stability, and		
	motorized needle rotation for		
	easy preparation of ultra-thin		
	TEM samples		

	Drift, vibration, repeatability	Provide information
GAS INJECTION SYSTEM &	STAGE	
Requirements	A gas injection system with three injection modules	
	enabling beam induced Pt, W	
	and C deposition	
Stage	A stage with motorized axes	Provide detailed
	with adequate degrees of	description
	free demo required for the	
	accurate positioning of the	
	needle in the working area.	
	Motorised stage with X and Y	
	movements 110 mm or	
	greater, Z movement 10 mm	
	or greater, rotation 360	
	degrees and tilt range: -10 to	
	60° or greater.	
	Compeucentric rotation	
	option should be available	
	Automated nozzle positioning	
	and angle	
	Injection line must allow	
	precise control over gas flow,	
	and heating of individual lines	
	The stage must be capable of	
	depositing Finely spaced	
	Nano sized deposits in arrays	
	at spacing's of at least ¼	
	micron.	
Stage (Optional)	A high-precision five-axis	
	motorized stage with Piezo-	
	driven X, Y and R axis should	
	be quoted as an option	
Precursors	Standard reservoir for Pt, W	
Main chamber size		Brouido information
Maximum cample size	Considering use of electron	Provide information
Waximum sample size	and ion column (at coincident	FIONUE INICITIATION
	point) and all pecessary tilt	
	angles for milling and other	
	detector restrictions	
Stage performance	Stage movement comp	Provide information
	centric rotation where stage	on sample movement
	rotation is accompanied by X	and rotation limits
	and Y translation to maintain	

	the same sample field of view	
	during stage rotation.	
Holders	Standard holders	Provide information
	Specialized holders with	on maximum
	precise pre tilt angles suitable	/minimum sample
	for imaging with BDSE/SE	dimensions, shape
	without sample movement	restrictions and
	are required.	weight restrictions
		for each holder
	The vendor will indicate the	
	accuracy of and precision of	
	such stage moments to	
	enable precise return without	
	backlash to original positions	
Ports	More than 20 available ports	Provide information
	on champer for future	
	upgradation	
Vacuum System		
System description		Provide complete
		description of system
		in response
System requirements	Oil free system	•
	electron gun, accelerator	
	region and any differential	
	pumping chambers shall be	
	continuously evacuated by	
	ion pumps	
	Column components and	
	chambers below the electron	
	gun and ion gun will be	
	evacuated turbo molecular	
	system	
	system.	
	Mechanical pumps used to	
	achieve rough vacuum levels	
	will prevent back-streaming	
	of oil into the vacuum system	
	Chamber vacuum	provide information
	Gun Vacuum	provide information
	FIB gun vacuum	provide information
	Pumping rate of main	provide information
	chamber	
SUPPORTING SOFTWARES		
	Files containing Ga beam etch	
Ion Beam support Data	rates for Most standard	
	metals and alloys (VIZ., Fe, II,	
	NI, Cr, SI, AI, Steel, SIN, SIC	

	etc.) Must be present in the		
	system		
Software supporting			
Stage holder movements			
for automated functions			
Software to write GDS			
files patterns on the			
sample			
Software to automate the			
TEM sample preparation			
Software supporting			
detector configurations			
that enhance analysis of			
SE, BSE and Ion Images.			
Free s/w upgrades for 10			
years after equipment			
installation			
and acceptance			
Functional details of each			provide information
software package			
AUXILIARY EQUIPMENT		[
AUXILIARY EQUIPMENT The supplier will provide			
AUXILIARY EQUIPMENT The supplier will provide any auxiliary cooling			
AUXILIARY EQUIPMENT The supplier will provide any auxiliary cooling required for equipment			
AUXILIARY EQUIPMENT The supplier will provide any auxiliary cooling required for equipment cooling such as water			
AUXILIARY EQUIPMENT The supplier will provide any auxiliary cooling required for equipment cooling such as water chillers			
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Sp	Spares			
a)	Spare FEG source			
b)	Long-life Ga source			
c)	Spare stubs – 100 no			

d)	45°, 70-degree pre-tilt		
	holders (4nos. each)		
e)	Supplier will, indicate any		
	additional spares required		
	for one-year trouble-free		
	operation		

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: Dr. Suresha S J Centre for Nano Science and Engineering Indian Institute of Science Bangalore – 560012, India

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	Sub total
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 (3 years)				
6.	Additional warranty				
	beyond three years				
7.	Cost of Insurance and				
	Airfreight				
8.	CIP/CIF IISc, Bengaluru				

Any additional items

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

Addressed to

The Chairperson, Attn: Dr. Suresha S J Centre for Nano Science and Engineering Indian Institute of Science Bangalore – 560012, India

Annexure – 1:

Declaration for acceptance of terms and conditions

To, The Chairperson, Centre for Nano Science and Engineering Indian Institute of Science, Bangalore – 560012, India

Ref: Tender No: XXXXXX Dated: XXXX

Supply and installation of Focused Ion Beam at MNCF, CeNSE, IISc Bangalore Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above 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 – 2:

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. 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 technical bid.
- 3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Annexure-3:

Declaration regarding track record

To, The Chairperson, Centre for Nano Science and Engineering Indian Institute of Science, Bangalore – 560012, India

Ref: Tender No: XXXXXXX Dated: XXXXX

Supply and installation Supply and installation of Focused Ion Beam at MNCF, CeNSE, 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	Blacklisted/debarred by	Reason	Since when and
	company is Debarred	Government / Semi		for how long
	/blacklisted / case is	Government/Organizations		
	Pending	/Institutions		

(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:

Section 7 – Checklist

(This should be enclosed with 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: Declaration for acceptance of terms and conditions
 - b. Annexure 2: Details of items quoted
- 2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

2. Sealed Envelop "B": Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: **Technical Bid (Envelope A) and Commercial Bid (Envelope B)** super scribing 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 super scribed with Tender No., Tender description & Due Date.