

Global Tender for the procurement of “Pipette Puller”

(Exempted from GTE as per Department of Expenditure

(DoE) issued OMs No. F.12/17/2019-PPD

dated 15.05.2020 & 28.05.2020)

This is a Request for Quote (RFQ) from the Indian Institute of Science (IISc), Bangalore, for the Supply and installation of “Pipette Puller” at the Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore.

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Section 1 - Bid Schedule

1	Tender No	CeNSE/VG/01/2024-25
2	Tender Date	23.07.2024
3	Item Description	Supply and installation of "Pipette Puller"
4	Tender Type	Two bid system (i) Technical Bid (Part A) (ii) Commercial Bid (Part B)
5	Place of tender submission	Chair's Office First Floor Centre for Nano Science and Engineering Indian Institute of Science, Bangalore 560012
6	Last Date & Time for submission of tender	14.08.2024
7	For further clarification	Prof. Vini Gautam Centre for Nano Science and Engineering Indian Institute of Science, Bangalore 560012 Email: vini@iisc.ac.in

Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder's firm should have existence for a minimum of 3 years. (Enclose Company Registration Certificate)
2. Please note that this is a **GTE exempt item** and hence preference to local bidders is not mandatory.
3. However, in the interest of promoting local suppliers, if the Bidder belongs to either class 1 or class 2 supplier distinguished by their "local content" as defined by recent edits to GFR, they should mention clearly which class they belong to in the cover letter
 - a) Class 1 supplier: Goods and services should have local content of equal to or more than 50%.
 - b) Class 2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.
4. Given that this is a GTE exempt item purchase preference as defined by the recent edits to GFR (within the "margin of purchase preference") to local suppliers is not to be taken for granted.
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.
7. MSME can seek exemption to some qualification criteria. IISc follows GFR2017 for such details.
8. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class 1 local suppliers/Class 2 local suppliers by claiming services such as transportation, insurance, installation, commissioning, training and other sales service support like AMC/CMC, etc., as local value addition.

Section 3 – Terms and Conditions

A) Submission of Tender:

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
 - a. Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications. The proposal should contain a compliance table with 4 columns in addition to the ones in the technical requirements table that has been included with this RFQ below. The compliance table should include all the items in the same order and format. **The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of deviation. The “third” column should state the reasons for the deviation if any.** The fourth column can be used to compare your tool with that of 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 format of quotation provided in tender**, and other commercial terms and conditions. **The commercial bid should be broken up to the maximum extent possible into separate items with a cost against each (in particular the optional items) to enable better comparison of price for various configurations across the bidders.** As an option, **please provide itemized cost for any *suggested* accessories/add-ons that may enhance the usability, capability, accuracy or reliability of the tool.** Vendors are encouraged to quote for as many add-ons as their tool portfolio permits.
3. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date. 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 superscripting tender number / due date should reach Chair’s Office, Centre for Nano Science and Engineering, Indian Institute of Science, Bangalore – 560012, India on or before due date mentioned in the tender notice. In case 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 to be 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 (Indian Bidders only).
7. If price is not quoted in Commercial Bid as per the format provided in tender document the bid is liable to be rejected.
8. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.
9. The technical proposal must include references of at least 3 previous installations done in India within last 5 years of similar equipment from the equipment manufacturer. Please provide the names and contact addresses of the three independent referees so that the committee can contact them independently to get a reference.
10. The quotation should be on FOR - IISc Bangalore basis in INR only

B) Cancellation of Tender:

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

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming to the tender terms.

C) Validity of the Offer:

The offer shall be valid 90 Days from the date of opening of the commercial bid.

D) 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 only be 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 in regard to acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.
4. The award of the contract 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 to be rejected:
 - a. Non-submission of complete offers.
 - b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
 - c. Receipt of bids in open conditions.
6. In case 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.
7. No revision of the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. 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, annual maintenance contract.

E) Pre-requisites:

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

F) Warranty:

The complete system must be under a warranty period of 2 years including free supply of consumables and spare parts from the date of functional installation. Conditions, costs, and time involved in the repair and replacement of defective components should be specified. If the instrument is defective, it must 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.

G) Annual Maintenance Contract:

An annual maintenance contract for a period of 2 years post warranty should be provided on completion of the warranty period as an option.

H) 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 tender is only indicative. IISc, Bangalore 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 found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

I) Delivery, Installation and Training:

The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order. The system should be delivered, installed and made functional within 90 days from the date of receipt of the purchase order. 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. After successful installation and inspection, the date of taking over of entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed. The bidder should also arrange for technical training for the users.

J) Payment Terms:

The payment will be determined after mutual discussions with the successful bidder.

K) 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.

L) 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.

M) General:

1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension of 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.
4. All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.
5. 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

A. Technical Specifications of Pipette Puller:

Sl. No	Feature	Specification	Necessary /Optional
1	Heating System	Platinum-iridium box filament must be included with a safe heat mode feature to disallow heat settings that are 10% over or under the Ramp Test value. Ramp tests should be available when new filament or glass is introduced. The dimensions of the box filament should be as follows: 2.5 mm sized square box filament with a width of 2.5 mm. A spare box filament of the same dimensions must be included along with the original/operating filament.	Necessary
2	Application Specific Heating Filament	Box filament for IVF and ICSI applications. The dimensions of the filament should be as follows: 2.5 mm sized square box filament with a width of 4.5 mm.	Optional
3	Heating Filament Sheet	Platinum-Iridium sheet material for making custom filaments. The dimensions of the sheet required: 18 mm (Width) X 75 mm (Length) X 0.05 mm (Thickness)	Optional
4	Filament Block Assembly	Assembly made up of hard black nylon for housing the adjustable brass jaws through which the current gets carried to the filament.	Necessary
5	Humidity control chamber	Enclosure for the filament block assembly to provide a controlled environment for the glass during the pull.	Necessary
6	Cover Plate	For concealing the entry of pulling cables into the instrument's base.	Necessary
7	Angle Plate with eccentrics	For securing the filament block assembly to the cover plate.	Necessary
8	Pre-Heat Mode	Feature to pre-heat and maintain the jaw temperature at 70 °C.	Necessary
9	Temperature sensor	For measuring a maximum jaw temperature of 125 °C.	Necessary

10	Glass Type Allowed	Instrument should allow the pulling of both borosilicate and aluminosilicate glass types.	Necessary
11	Glass Capillary Compatibility	Instrument must be suitable for various diameters and wall thicknesses of glass pipettes. Maximum glass capillary size: 2.0 mm outer diameter	Necessary
12	Glass Capillary Dimensions after the Pulling Process	The instrument, after completion of glass pipette pulling, should yield a consistent tip size ranging between 0.06 μm to 3 μm and a taper length ranging between 3 mm to 15 mm.	Necessary
13	Pipette Storage Box	Box for safely storing the pipettes. Required dimensions are: 7 X 3 5/8 X 3/4 inches	Optional
14	Air Cooling System	Built-in air-cooling system containing Air compressor: To create the air pressure for cooling the filament and the glass during the pull cycle. Air Jet: To direct the cooling air to the filament. Air Valve Solenoid: To regulate the flow of cooling air to the filament and glass. Drierite Canister: A canister filled with Drierite (calcium sulfate (97%) and cobalt chloride (3%)) to remove the moisture from the air flowing between the compressor and air solenoid.	Necessary
15	Pulley Assembly	Built-in mechanical assembly for safe loading and holding the pipette throughout the pull cycle containing Puller Bars: For loading the glass pipette safely. Bumpers: To stop the motion of its associated puller bar. Spring Stops: To catch the puller bars as they rebound off the bumpers V-Bearings: For Guiding the puller bar motion. Pull Cable: For transmitting the applied pulling force to the puller bars Panels: Angled surfaces for mounting the puller bars and their bearings, the spring stops, and the bumpers. Glass Stop Mounting: Holes for mounting the glass stops.	Necessary
16	Pulling Mechanism	Looping feature where the glass pipette is pulled in multiple stages if it is not separated in a single cycle.	Necessary

17	Two Cooling Modes: Time and Delay	<p>Time mode: For controlling the length of time the cooling air is active during the pull cycle. The range of the TIME mode must be 0 to 500. For a non-zero velocity of the pull, each unit of TIME must correspond to 0.5 ms. For zero velocity, each unit of TIME must correspond to 10 ms.</p> <p>Delay mode: For controlling the delay time between when the heat turns off and when the hard pulling of the pipette is activated. The range of the DELAY mode must be 0 to 500. For a non-zero velocity of the pull, each unit of DELAY must correspond to 1 ms. For zero velocity, each unit of DELAY must correspond to 10 ms.</p> <p>Both modes are required.</p>	Necessary
18	Controlling Pull Parameters	Programmable with adjustable settings for varying pull strength (Range: 0-255), velocity (Range: 0-255), heat (Range: 0-999), air pressure (Range: 0-999), time and delay (pull parameters).	Necessary
19	Electronics	A dsPIC (digital signal controller) microprocessor to control the micropipette puller.	Necessary
20	User interface	<p>A programming color touch screen display for monitoring and controlling the pull process.</p> <p>A reset button to perform an emergency reset of the microprocessor.</p> <p>A Start/Stop button to start/stop the pull cycle.</p> <p>A rotary dial as an alternative to the displayed keypad for the numeric entry.</p>	Necessary
21	Programmability	Storage capacity for storing up to 100 custom programs and capability of saving, recalling, and editing the programs.	Necessary
22	Program Lock	A program lock feature on the menu screen of the program.	Necessary
23	Pipette Cookbook	Library of programs from which the user can select the most appropriate program based on the filament installed, the glass type, and the glass dimensions used.	Necessary
24	Copy & Paste Function	For simplifying the writing and editing of programs.	Necessary
25	Line Repeat Feature	<p>For simplifying the multi-line programming.</p> <p>Four programming lines must be made available with each line capable of repeating up to four times.</p>	Necessary

26	Diagnostics Feature	For checking the puller's Heat, Pull, Velocity Sensor and Air/Cooling System functions.	Necessary
27	Error Messages and Warnings Feature	To alert the user if a system error (filament burn-out, air leak, and failed to melt glass) occurs when pulling a pipette.	Necessary
28	Pull Results Feature	To display the heat-on times line by line for the last two pulls.	Necessary
29	Glossary Feature	A built-in dictionary of terms associated with the pipette puller	Necessary
30	Additional Warranty	An extended warranty of 3 years along with the original warranty.	Optional
31	Annual Maintenance Contract	An annual maintenance contract for a period of 2 years post warranty on completion of warranty period.	Optional

B. Training and demonstration

Training in usage of the machine (hardware and software) must be demonstrated by the successful bidder at bidder's cost to the end users at IISc, Bangalore. The vender should be responsible for the complete system installation, functioning maintenance, and training by trained personnel. Bidders should clearly specify the after sales service/application support capabilities without any additional cost.

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. Vini Gautam
Centre for Nano Science and Engineering
Indian Institute of Science, Bangalore 560012
Email: vini@iisc.ac.in

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 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,
Kind Attention: Prof. Vini Gautam
Centre for Nanoscience and Engineering,
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXX

Dated: XXXXX

Supply and installation of “Pipette Puller”.

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installing pipette pullers.

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3:

Declaration regarding track record

To,
The Chairperson,
Kind Attention: Prof. Vini Gautam
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXX
Dated: XXXXX

Supply and installation of “Pipette Puller”

Sir,
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby 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 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 and for how long

(NOTE: In case 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,
Kind Attention: Prof. Vini Gautam
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX
Dated: XXXX

Supply and installation of “Pipette Puller”

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 – 5:

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.

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 (2 years)				
6.	AMC 2 years beyond warranty				
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: Prof Vini Gautam
 Centre for Nano Science and Engineering
 Indian Institute of Science
 Bangalore – 560012, India

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: 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) 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.