



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

शिक्षा मंत्रालय, भारत सरकार द्वारा स्थापित
सैक्टर 81, नॉलेज सिटी, प. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब 140306
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI
(Established by Ministry of Education, Govt. of India)
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab
PAN No. - AAAAI1781K GSTIN – 03AAAAI1781K2ZS

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CPPP/Institute Website

IISERM (1472-2)21/22-Pur-GTE

Dated: 26th August 2021

NOTICE INVITING E-TENDER

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for the **Supply and Installation of Micro-manipulator for fixing manipulator left & right** as per technical specification and details given below and BOQ list from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app>& Institute website www.iisermohali.ac.in.

-Sd-
Assistant Registrar (P&S)



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E-TENDER NOTICE

Tender Ref.- IISERM(1472-2)21/22-Pur-GTE	Dated : 26 th August 2021
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	26 th August 2021	6:00pm
2.	Tender Document download start Date & Time	26 th August 2021	6:00pm
3.	Bid Submission start Date & Time	26 th August 2021	6:00pm
4.	Bid Submission End date and Time	16 th September 2021	Upto 11:00am
5.	Tender opening Date and Time	17 th September 2021	At 11:30am

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website www.iisermohali.ac.in. Tender fee in shape of Demand Draft of Rs 590/- (Non-refundable) should be submitted by bidder in favour of the Registrar, IISER Mohali payable at Mohali or through Online mode in Institute Account (Canara Bank Saving Account Number 4790101001912 and IFSC Code CNRB0004790) However, scanned copy of the Tender fee should be uploaded on website along with technical bid. The hard copy of the same in original to be sent to the address mentioned below duly superscribing the supply/work name and reference/tender ID on the envelope and same must reach before opening of the bid and if not received before due date the bid will be summarily rejected. **Micro & MSME/NSIC and Firms registered and the firms registered with concerned Ministries/ Departments, the bidders are exempted from payment of Tender Fee/EMD as per GOI notifications/GFR (2017) and Ministry of Finance OM No. F.9/4/2020-PPD dated 12 November 2020.**

Bidders will also be required to execute bond/undertaking Bid Security Declaration Form attached as ANNEXURE-I for availing exemption to submit EMD/Tender Fee.

The Original Tender Fee should be sent to:

Assistant Registrar (P&S)
Indian Institute of Science Education and Research Mohali
Sector-81, Knowledge City, SAS Nagar, Mohali, Punjab,
India, Pin: 140306

Non-receipt of original Tender Fee will lead to rejection of tender.

ITEM WISE DETAILS

Sr. No.	Description	Qty. (in units)
1.	<p data-bbox="240 248 927 282">Supply and Installation of Micro-manipulator</p> <p data-bbox="240 327 719 360"><u>TECHNICAL SPECIFICATIONS</u></p> <p data-bbox="240 383 660 416">1. Resolution and Full Travel</p> <ul data-bbox="288 439 1075 539" style="list-style-type: none">➤ Minimal microstep size is 62.5 nanometers per microstep➤ Display has single micron resolution➤ Full travel is 25 mm in each axis <p data-bbox="240 584 523 618">2. Maximum Speed</p> <ul data-bbox="288 640 624 674" style="list-style-type: none">➤ <i>Mechanical</i> 5 mm/sec <p data-bbox="240 707 571 741">3. Long Term Stability</p> <ul data-bbox="288 763 836 797" style="list-style-type: none">➤ <i>Drive Mechanism</i> < 0.5 micron / 24 hr <p data-bbox="240 842 448 875">4. Dimensions</p> <ul data-bbox="288 898 1023 1043" style="list-style-type: none">➤ <i>Controller</i> 15.75 in x 10.75 in x 3.5 in 40 cm x 27.3 cm x 9 cm➤ <i>ROE</i> 10 in x 6 in x 4 in 25 cm x 15 cm x 23 cm <p data-bbox="240 1077 392 1111">5. Weight</p> <ul data-bbox="288 1133 528 1279" style="list-style-type: none">➤ <i>Controller</i> 6.5 lbs 3 kg➤ <i>ROE</i> 3.5 lbs 1.6 kg <p data-bbox="240 1312 687 1346">6. Electrical (Indian standards)</p> <ul data-bbox="288 1368 639 1435" style="list-style-type: none">➤ 115/230 Volts 50/60 Hertz power line <p data-bbox="240 1469 576 1503">7. Controller and ROE</p> <ul data-bbox="288 1525 1374 2042" style="list-style-type: none">a) A single controller capable of running 2 to 4 manipulators.b) If two manipulators aren't enough, a second controller can be daisy chained to allow the single ROE to move up to four manipulators. Thus the system can be easily expanded to control highly sophisticated experiments.c) Electrically quiet. Unlike the competition, our multi-unit controller employs linear output circuitry. Possibility to add additional manipulators to the same controller without requiring potentially noisy chopper drives.d) In manipulators, the 4th axis can be set up and changed without the need to connect an external computer to download and configure software. A separate configuration is allowed for each output on this manipulator controller. If desired, each manipulator can approach the prep at a different angle from the horizontal. The 4th axis can be configured between the X and Z axes or the Y and Z axes (useful when manipulator is rotated 90 degrees relative to the preparation).	01

- e) Faster automated pipette exchange. Automation is set up and run via the same interface used in controller; however, the speeds of the automated movement are much faster.
- f) Accelerated manual mode. This mode can be fully disabled if needed for direct control of the pipette.

8. Micromanipulator

- Precision motorized micromanipulators, mechanical offers advanced features found in manipulators costing thousands more. Custom engineered stepping motors, precision cross-roller bearing slides and proprietary worm gear capstan drives form the basis of the watch-like mechanical system. Possibility for Pipette holders and headstages to be securely mounted with rigid mounting systems.
- The extremely low backlash removes traditional drawbacks of “open loop” technology and eliminates drift. This allows submicron resolution down to 0.2 microns in the coarse range and down to 63 nanometers in the fine range. With over 1 inch of motorized travel on all three axes, and a user designated 4th axis, that allows tremendous range of motion while maximizing resolution.
- Additional components can be added at any time, allowing the user to develop a system tailored to his or her particular needs. The controller is self-detecting so there is no need for manual configuration of the components.

9. FEATURES

- a) Quietest electronics in the industry optimized for single channel recording
- b) Single controller and ROE will run two stepper motor drive manipulators
- c) Self-detecting, daisy-chain capability allows control of four manipulators from one ROE
- d) User-friendly interface: single button access to all major functions
- e) Easily configurable virtual 4th axis set without external computer
- f) Accelerated Mode for fast, manual manipulator movement
- g) Easy toggle selection of Mode (speed/resolution, pulsed diagonal, Accelerated Mode)
- h) Display indicates X, Y, Z coordinates, Mode, active manipulator
- i) Robotic Home and Work Position moves for easy automated pipette exchange
- j) Faster robotic moves than previous versions
- k) Definable 4th axis for coaxial pipette movement, angle selected by DIP switches
- l) Simple USB interface
- m) Toggle switch selects which manipulator is connected to input device
- n) LED and display indicate active manipulator
- o) Ultra-low drift, ultra-smooth movement
- p) Low-drift mechanical stability

A) **IMPORTANT NOTES:-**

- I. **The online updated Price BOQ is in INR format. If bidder want to quote other than INR please specify the quoted currency in the technical bid/part and fill the amount in same updated BOQ.**
- II. **Please bifurcate the price on shipping terms i.e. Ex-works -> FCA/FOB -> CIP/CIF in price BOQ and specify the same in technical bid without price.**
- III. **If quoted in foreign currency, kindly clearly specify the terms of delivery/country of origin/bank details with swift code/weight/size/dimension of shipment.**

- IV. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company.
- V. All MSME/NSIC/Startup Units shall be considered as per provisions/rules prescribed by Govt of India.
- VI. Auto-extension of last date for E-Tenders has been activated by CPP Portal which has participation 2 bids or less.
- VII. Warranty: Minimum One year, if not specified above.

B) SUBMISSION OF TENDER

- I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.
- III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped. **Also bidders applying against ‘MSME/NSIC Certificate’ issued by appropriate Authority, should ensure that the certificate attached is relevant to the area of service/supply. For example, If the tender is for “supply & installation of Desktop” the certificate should be issued for activity/area of “Computer supply and services activities etc” otherwise bid will be REJECTED without notice.**
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

C) INSTRUCTIONS

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be rejected.
2. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID.
3. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. Conditional tenders will be summarily rejected.

4. In case of Ex-godown terms the amount of packaging forwarding freight etc. should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
5. THE INSTITUTE IS EXEMPTED FROM CUSTOM DUTY under notification no-TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance, notification no. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
8. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the currency in which tender quoted wherever applicable in Technical Bid along the tender documents.
9. The delivery period should be specifically stated. Earlier delivery will be preferred.
10. The firms are requested to provide/upload detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
11. Validity of offer: 90 days.
12. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 3% of the value of supply order, in terms of *Ministry of Finance, DoE, GOI, OM. No. F.9/42020-PPD dated 12-11-2020* and as per norms may be sought from the firms.
13. The right to reject all or any of the quotation and to split up the requirements for itemized L-1 or relax any or all the above conditions without assigning any reason is reserved by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
14. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

–Sd–
Assistant Registrar (P&S)

ANNEXURE-I

Bid Securing Declaration Form

Date: _____ E-Tender No. _____ E-Tender ID _____

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders. I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)
Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)
Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PS: *Furnish the above in original stationary/letter head with signed and sealed.*