

Notice Inviting Tender

Supply and Installation of Cryo-ultramicrotome

Tender No. DBT-IISC/DBS/EM-CRYO-
ULTRAMICROTOME/2019-20



INDIAN INSTITUTE OF
SCIENCE

**DBT-IISc Partnership Program Phase-II at IISc
Division of Biological Sciences
Indian Institute of Science
Bangalore – 560012**

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Project Investigator
DBT-IISc Partnership Program Phase-II at IISc

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SECTION 1 – BID SCHEDULE

1	Tender No	DBT-IISC/ DBS/CRYO-ULTRA MICROTOME/2019-20
2	Tender Date	18 th February 2020
3	Item Description	Supply and Installation of Cryo-Ultra microtome with diamond and glass knives
4	Tender Type	Two Bid System a) Technical Bid (Part-A) b) Commercial Bid (Part-B)
5	Place of Submission and tender opening	Principal Investigator, DBT-IISc Partnership Program Office, Biological Sciences, Indian Institute of Science, Bangalore – 560012, India
6	Last Date & Time for submission of tender	10 th March 2020, 15:00 hrs
7	Date of opening of technical bids	12 th March 2020, 16:00 hrs
8	For further clarifications	Principal Investigator, DBT-IISc Partnership Program Office, Biological Sciences, Indian Institute of Science Bangalore- 560012, India Email: subba@iisc.ac.in with copy to vijaylakshmi@iisc.ac.in 080-2293 2297 and 2293 3371

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. 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, it is mandatory to attach authorization certificate along with the bid from the original equipment manufacturer.**
- 4. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4**
- 5. 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

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, check list for conformance to specifications, format in which the price bid is quoted without the actual prices (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
3. The technical bid and price bid should each be placed in a sealed cover, superscripting on both the envelopes the tender no. and the due date and Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No & Due Date.
4. The SEALED COVER superscripting tender number / due date & should reach The Chairman, Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore – 560012, India on or before due date mentioned in the tender notice. In case due date happens to be 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 communications are to be addressed to- The Principal Investigator, DBT-IISc Partnership Program Office, Biological Sciences, Indian Institute of Science, Bangalore– 560012, India.
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 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. Incomplete bids will be summarily rejected.

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 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 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 in 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 for installation, operation, pre-processing 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) Mode of Shipment:

In case of foreign bidders, the consignment must be airlifted, insured and transported to the Bangalore International Airport (CIP/CIF). Necessary custom clearance will be done by IISc, Bangalore, from Bangalore International Airport.

G) Customs clearance:

The IISc, Bangalore will furnish the necessary papers for the import of items into India, necessary custom duty exemption certificate and other supporting documents to facilitate the import of the items will be provided.

H) Warranty:

The complete system is to be under warranty period of minimum 5 years (year wise breakup value should be shown in the commercial bid) including free supply of consumables, spare parts and data analysis software from the date of functional installation. If the instrument is found to be defective, it has to be replaced or rectified at the cost of the bidder 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.

I) Annual Maintenance Contract:

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

J) 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.

K) Delivery and Installation:

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 120 days from the date of receipt of 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.

M) Payment Terms:

The payment will be through a Letter of Credit and milestone of the payment will be determined after the mutual discussions with the successful bidder.

N) 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.

O) 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.

P) 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.
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 Cryo-ultramicrotome:

S.No.	Specification	Essential/Desirable
1	<p>Instrument features: Ultrathin sectioning of the sample must follow Vibration Decoupled Gravity Stroke; Cutting Speed range from 0.05 to 100 mm/s or better; Cutting window setting from 0.2 to 14 mm or better; Selectable return speeds 10, 30, and 50 mm/s or more; Total Specimen Advance 200 µm or more including specimen advance Indicator 10 segments 20 µm each/better and specimen advance (Feed) 1 to 100 nm in steps of 1 nm/better; Reserve Warning range from 20 µm or better; System should possess the feed totalizer, section counter, count down system etc for efficient specimen handling; Equipped with automatic trimming option for efficient cutting process Capable of 3D mode and Rocking mode .</p>	Essential
2	<p>Illumination on the system The system should have light intensity Controlled Illumination with back light, top light, Spot light as well as the specimen trans-illumination The Spot light and TOP light must have illumination power at least 8200 lx or better with user defined intensity control.</p>	Essential
3	<p>Stage Movement: Motorized stage controlled through built in wheel/knob system as well as from the touch screen available with the unit. Travel range for Left-Right must be 25 mm/more, up-down must 10 mm/more or better. Controlled step size from 0.1 to 15-microns or better.</p>	Essential
4	<p>Optics and Mechanics Equipped with a stereo microscope having zoom ratio 8:1 or higher. Objective with 0.8x magnification or better. Eye Piece magnification - 15x or more. Specimen as well as Knife block must be rotatable 360 degree with self-locking facility.</p>	Essential
5	<p>System operation: System must be equipped with a controllable touch screen to operate Cutting speed control, cutting window settings, FEED indicator, LED illumination control individually or in combinations, memory set for different cutting speed, rocking mode for trimming, count up, count down etc.</p>	Essential
6	<p>Knife and knife Maker: The system should include standard Dimond knife for cutting. The Diamond knife should have ultra 35° 2.0mm or better. The system should also be used with glass knife.</p>	Essential

	<p>A dedicated glass knife maker should be supplied along with the system with high quality glass strips; Glass strips 6.4 x 400 x 25 mm and Glass strips 8.0 x 400 x 25 mm each type at least 24 pcs.</p> <p>The Knife maker must have Glass breaking mechanism with scale, ensuring consistent and reproducible glass break.</p> <p>Automatic reset of the breaking and scoring mechanism with easily accessible scoring pressure adjustment.</p> <p>The system should have 100% balanced break method</p> <p>The system should Break glass from 6.5 & 8mm or more</p> <p>The system should have Variable scoring lengths</p> <p>The system should have Accurate glass strip positioning</p> <p>The system should have Drawer system offers convenient and safe knife removal</p> <p>The system should have High reproducibility</p> <p>The system should have Auto reset of breaking and scoring mechanism</p> <p>The system should have Push action score for even scoring</p> <p>The system should have Adjustable scoring pressure</p>	
7	<p><u>Starter Kit and Accessories:</u></p> <p>The Microtome must come with a starter kit: Knifebox; Grid box at least 10 pcs; Dental wax; Trufs at least 500 pcs or more for each type of glass knives; Easy mould embedding mould trays 50 nos or more for each type of glass trips and Copper grids with mesh sizes (100 mesh, 200 mesh, 300 mesh, 400 mesh each type at least 100 pcs or more).</p>	Essential
8	<p><u>Cryo Attachment:</u></p> <p>The System must be attached with Cryo Low Temperature Sectioning Chamber attachment.</p> <p>It should have cooling chamber with shell construction having GN2 cooled inside walls and LN2 flushing for frost-free work with open top chamber down to -185°C.</p> <p>It must have Tank for approx. ½ l LN2 along with 3 level sensors, threaded filling tube with phase separator and preparation surface.</p> <p>The Cryo Chamber must have LED illumination, window for LED backlight for specimen visibility.</p> <p>The Cryo Chamber must have temperature sensors for specimen, knife and gas.</p> <p>The Chamber should be facilitated eucentric knife stage rotation of the knife holder for 15° or better.</p> <p>For maximum stability and contact free specimen handling, specimen holder with torque limitation screw, straight through the wall, rotating knife holder at least 2 pcs or more , with specimen loading position and sectioning position should come as standard features.</p> <p>The chamber must have specimen collect clamp, specimen carrier, pin holder, preparation plate, cryotool with M4 thread etc and other required accessories, if necessary.</p> <p>Pressure-less automatic filling system with - LN2 pump for the automatic continuous filling of the chamber, with 4 level sensors or better and cap, connecting cable to Ultramicrotome</p> <p>It must have Insulated, threaded connecting hose, Pump storage holder.</p>	Essential

B) Accessories:

The bidder should supply the below items along with the machine:

S.No.	Specification
1.	Anti-Vibration Isolation system: Build in anti-vibration platform
2.	True Online UPS system with isolation transformer for the entire system with minimum 1-hour backup
3.	100% CO2 Cylinders (2 nos) with regulators and automatic cylinder switching module
4.	In case of breakdown or malfunction, the matter should be addressed within 2 weeks and in case on non-compliance warranty extension to the tune of 5 times the duration of breakdown will be extended.

C) Training and demonstration:

Training on 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.

Section 5: Technical Bid

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

**The Principal Investigator,
DBT-IISc Partnership Program
Biological Sciences
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

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

Signature of the Bidder

Name

Designation, Seal

Date:

Annexure-2:

Declaration regarding experience

To,

**The Principal Investigator,
DBT-IISc Partnership Program
Biological Sciences,
Indian Institute of Science,
Bangalore – 560012, India**

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Supply and installation of Cryo-ultramicrotome

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 Cryo-ultramicrotome.

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3:

Declaration regarding track record

To,

**The Principal Investigator,
DBT-IISc Partnership Program
Biological Sciences,
Indian Institute of Science,
Bangalore – 560012, India**

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Supply and installation of Cryo-ultramicrotome

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
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(NOTE: In case the company / firm was blacklisted previously, please provide the details regarding 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 Principal Investigator,
DBT-IISc Partnership Program,
Biological Sciences,
Indian Institute of Science,
Bangalore – 560012, India**

Ref: Tender No: XXXXXX

Dated: XXXX

Supply and installation of Cryo-ultramicrotome

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:

Company Name	
Product Name	
Part / Catalogue number	
Product description / main features	
Detailed technical specifications	
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:

SI No	Description	Catalogue Number	Quantity	Unit Price	Sub Total
1	Instrument price				
2	Accessories for operation and installation				
3	All Consumables, spares and software to be supplied locally				
4	Warranty (5 years)				
5	Cost of Insurance and Airfreight				
6	CIP/CIF IISc, Bengaluru				

SI No	Description	Quantity	Unit Price	GST	Total

Addressed to:

The Principal Investigator,
DBT-IISc Partnership Program
Biological Sciences,
Indian Institute of Science,
Bangalore – 560012, India

SECTION 7 – CHECK LIST

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

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

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

2. **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. & Due Date.