

Notice Inviting Tender

Supply and Installation of High Resolution and High Speed MALDI TOF System

Tender No. DBT-IISC/DBS/MALDI-TOF/2019-20



INDIAN INSTITUTE OF
SCIENCE

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

February 2020

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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-09/MALDI-TOF/2019-20
2	Tender Date	19 th February 2020
3	Item Description	Supply and Installation of High Resolution and High Speed MALDI TOF System
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	11 th March 2020, 15:00 hrs
7	Date of opening of technical bids	14 th March 2020, 16:00 hrs
8	Tender Fees	NIL
9	Earnest Money Deposit	NIL
10	For further clarifications	Principal Investigator, DBT-IISc Partnership Program Office, Biological Sciences, Indian Institute of Science Bangalore- 560012, India Email: deepak@iisc.ac.in, jayanta@iisc.ac.in with copy to vijaylakshmi@iisc.ac.in 080-2293 2053 / 2293 3371

SECTION 2 – ELIGIBILITY CRITERIA

SECTION 2 – ELIGIBILITY CRITERIA

Prequalification criteria:

- 1. Bidder should have well established own establishment (Enclose Company Registration Certificate)**
- 2. The vendor should have a good track record of having previously supplied similar equipment's in India (Self-declaration – Annexure 3)**
- 3. The vendor should have qualified technical service personnel for the instrument based in Bengaluru.**
- 4. Bidder should have executed at least one order of similar instrument in India in the last 2 years. (Provide copy of Purchase orders – Annexure 2)**
- 5. The payment will be through a Letter of Credit**
- 6. The Bidder should not be currently blacklisted by any institution, bank in India or abroad (Self Declaration-Annexure-4)**
- 7. The Bidder should accept tender terms & conditions (Annexure-5)**

SECTION 3 – TERMS AND CONDITIONS

Submission of Tender:

- 1. All documentations in the tender should be in English**
- 2. Tender should be submitted in two envelopes (two bid system)**

Technical Bid (Part-A) – Technical bid consisting of all technical details along with commercial terms and conditions; and

Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid

Superscripting on both the envelopes the tender number and the due date and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscripted with the Tender No & Due Date.

- 3. The SEALED COVER superscripting Tender number / due date & should reach the undersigned 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.

- 4. All communications are to be addressed to the undersigned only**
- 5. Quoting of Price (s): PRICE QUOTED SHOULD BE IN MULTI CURRENCY**
- 6. Excise Duty (ED)/ GST/ other taxes, levies, like Service Tax (ST), Education cess, etc., are to be indicated separately. BIDDER should mention Central and State GST Registration and PAN in the tender.**
- 7. If Price is not quoted in Commercial Bid as provided in Tender document then, the bid is liable to be rejected after forfeiting Earnest Money Deposit.**
- 8. The purchaser 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 effected bidder or bidders or any obligation to inform the affected bidder or bidders.**
- 9. If the foreign bidder is represented, by their Indian representatives, the foreign bidder has to submit a certificate about their relationship with the Indian firm.**
- 10. Incomplete bids will be summarily rejected.**

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.

Validity of The Offer: 90 Days from the date of opening of the technical bid.

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, 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. 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.

Prerequisite requirements:

In case of supply of equipment/instrument, you will have to intimate well in advance the prerequisite installation requirement of the goods so that the same is kept ready well in advance for installation.

Mode of Shipment:

The consignment must be air-lifted, insured and transported to the installation site by the supplier.

Customs clearance:

The Centre 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.

Warranty and service support:

The complete system is to be under warranty period of 3 year on-site comprehensive warranty for all parts of the MS and accessories supplied. Free maintenance and service must be provided during warranty including free supply of spare parts and labor 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 supplier within 10 days from the date of receipt of written communications from us. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended. Bidder will be responsible for the proper functioning of the instruments during the warranty period.

Extended Warranty:

The manufacturer should provide 2 years of extended warranty (including parts and labor) after completion of standard warranty.

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.
2. The quantity of the items in tender is only indicative. IISc 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 reserves the right to cancel or amend the contract.

Delivery and Installation:

The system should be delivered, installed and demonstrated (without any extra charges) within 45 days from the date of receipt of confirmed 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 centre. After successful installation and inspection, the date of taking over of the entire system by the centre shall be taken as the start of the warranty period.

Payment Terms:

The payment for the equipment will be through a Letter of Credit for the 100% of the equipment value.

1. 90% of the purchase order value will be released against shipping documents and remaining
2. 10% after satisfactory installation and demonstration.

No advance payment shall be made.

Statutory Variation:

Any statutory increase in the taxes and duties subsequent to suppliers offer if it takes place within the original contractual delivery date will be to IISc account 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.

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.

General:

1. All amendments, time extension, clarifications etc., within the period of submission of the tender, will be uploaded on the IISc website only and will not be published in newspapers. Bidder should regularly visit the above website to keep themselves updated. No extension in the bid due date/time shall be considered on account of delay in receipt of any document by mail
2. The bidder may furnish any additional information, which he thinks is necessary to establish his capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder may visit the 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 him liable to be debarred from tendering/taking up of work in IISc Bangalore.

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

Contact No: 080 22933371

Section – 4 – Technical Specifications

Technical specifications: High Resolution and High Speed MALDI TOF System with the following

High Performance MALDI Time of Flight Mass Spectrometer with the highest quality performance in mass resolution, sensitivity and accuracy with both positive and negative mode ion detection for the following applications:

- i) Identification and characterization of intact protein, peptide identification and characterization. Identification of Post Translational Modifications and analysis, de novo sequencing, gel based and non-gel based applications.
- ii) Molecular characterization and intact mass determination of glycans, nucleic acids and peptide-nucleic acids.
- iii) Capable of analyzing complex and simple lipids.
- iv) MS/MS analysis of at least 10 KDa.
- v) Capable of upgrading to microbial identification without any hardware modifications.
- vi) Capable of upgrading to high quality tissue Imaging applications.

General Specifications:

S.No.	Specification	Essential/ Desirable
System Hardware Specifications	<p>The instrument should consist of two stages of ion acceleration with the second stage used for MS/MS analysis of masses resolved by the first stage.</p> <ul style="list-style-type: none"> • It should be operational in Linear, Reflectron and MS/MS mode. • The instrument should have flexibility to operate both in Reflectron and Linear modes with high mass resolution, sensitivity and accuracy. • Active video viewer and restring of the target under acquisition. • Unwanted mass suppression and quantitation of mass peaks. • Automated cleaning of ion source. • High speed data digitizer for high resolution and dynamic range 	Essential
MALDI ION SOURCE	<ul style="list-style-type: none"> • The MALDI laser should be a tunable solid-state, with scan speed of ≥ 2 KHz. • Laser repetition rate (linear and reflectron): 1Hz to 10kHz or higher. • Laser life should be 1 billion shots. • Collision Induced Dissociation (CID) with high 	

	<p>collision energy for both type of ions.</p> <ul style="list-style-type: none"> • Sample compartment should be compatible with 48, 96 and 384-well plate format. 	
Mass Analyzer	<p>Linear mode</p> <ul style="list-style-type: none"> • Data acquisition speed ≥ 10 KHz • Mass range in this mode (m/z): 1-500 kDa. • Mass peak reproducibility: Less than 0.05 Da. • Minimum sensitivity for MS: 500 fmol or better. • Mass Accuracy in this mode: Less than 90 ppm. <p>Reflectron mode</p> <ul style="list-style-type: none"> • Data Acquisition Speed ≥ 10 KHz. • Mass Accuracy: Less than 1 ppm with Internal Calibration. • Minimum sensitivity: 250 amol or better. • Mass resolution: $\geq 40,000$. <p>MS/MS mode</p> <ul style="list-style-type: none"> • The instrument should have a true tandem TOF/TOF facility. • Mass resolution (M/ΔM): 10,000. • Minimum sensitivity: 250 amol or better. • MS/MS range: 2000 to 6000 Da or better. • Minimum measurable mass in MS/MS mode: 100 Da or less. • Maximum measurable mass in MS/MS Mode: 12000 Da or better. • Mass accuracy in MS/MS mode: Mass error less than 0.05 Da. 	

Data System and software, workstation should have following technical features.

- a) Proteomics Applications: Software related to Protein identification and characterization, *de novo* sequencing, PTM's discovery must be supplied. The system should have upgrade facility for LC-MALDI Workflows.
- b) TLC – MALDI for LIPID analysis: Software and related accessories to perform the TLC MALDI experiments should be quoted in the offer.
- c) Dedicated Software for the Molecular characterization and analysis of Polymers & Biopolymers.
- d) Should be upgradable with a dedicated software for microbial analysis.
- e) Compatible with MASCOT search engine for protein sequence search database analysis.

- f) Capable of upgrading to high quality tissue Imaging applications with sprayer and software.
- g) High performance computer (workstation) with adequate memory and all interfacing software and hardware. Computer specification should be submitted along with the technical bid.
- h) The operating system should be based on Windows 10(or higher) (64bits) OS with adequate features to transfer data between computers for standalone data analysis
- i) Suitable Laser printer should be provided.

Other items

- a) A complete online 10KVa UPS system with minimum 1-hour backup for uninterrupted data acquisition.
- b) Suitable number of required gas cylinders and regulators.
- c) Essential target plates, Matrix & Standard for mass calibration should be provided
- d) Vendor should quote TLC-MALDI hardware and software for lipid analysis directly from TLC
- e) Extended warranty and AMC charges should be quoted from the date of expiry of initial three years' warranty, under options.
- f) The vendor should have at least one system installed in India and provide a few references in India and globally.

Section 5: Technical Bid

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

Tender No:

Dated:

Supply and Installation of High Resolution and High Speed MALDI TOF System

**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:

1. Name of the Bidder:

**2. Nature of Bidder (Pvt Ltd or Public Ltd Co/Partnership firm etc)
(Attach attested copy of Certificate of Incorporation/ Partnership Deed)**

**3. Registration No/ Trade License,
(if any attach copy)**

4. Registered Office Address

5. Address for Communication

6. Contract person Name Designation

7. Telephone No

8. Email ID & Website

9. PAN No. (attach copy)

10. GST No. (attach copy)

11. Service Tax registration No. (attach copy)

**12. Annual Turnover (attach audit reports)
2017-18
2018-19**

13. Earnest Money Deposit Details NIL

14. Tender Cost NIL

(Signature of the Bidder)

**Printed Name
Designation, Seal**

Date:

Annexure-2:

Past Purchase Orders

Details of the Purchase Orders executed during the last two years 2017-18 & 2018-19:

Provide the following details for each order:

Order Number and date

Items Value

Name of Organization

Contact Person Name and Designation

Contact Details with Email

Date of Completion

Enclose copy of purchase order

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-3:

Declaration Regarding Experience

To,

**The Principal Investigator,
DBT-IISc Partnership Program
Biological Sciences
Indian Institute of Science
Bangalore – 560012, India
Contact No: 080 22933371**

Ref: Tender No: XXXXX, Dated: XXX

Supply and installation of High Resolution and High Speed MALDI TOF System

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has more than five years of experience in supplying and installing centrifuges and ultra-centrifuges to Central/State Govt. universities / research institutes.

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure-4:

Declaration Regarding Clean Track by Bidder

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 High Resolution and High Speed MALDI TOF System

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 / black listed 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:

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 Period for which the company / firm was blacklisted and the reason/s for the same)

Yours faithfully

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

Annexure – 5:

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:

Dated:

Supply and installation of High Resolution and High Speed MALDI TOF System

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above referred RFP document. I declare that all the provisions of this RFP 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)

Printed Name

Designation, Seal

Date:

Annexure – 6:

Details of items quoted:

Company Name:

Product Name:

Part / Catalog 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 which of the technical specifications (key specifications or desirable specifications) they are able to meet or otherwise, IISc may ask for clarifications or further information.**

Section 6: COMMERCIAL BID

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

Tender No:

Dated:

Supply and installation of High Resolution and High Speed MALDI TOF System

S. No:	Description	Catalog Number	Quantity	Unit price	Subtotal
1	Instrument				
2	Accessories				
3	Extended warranty				
4	Cost of Insurance and Airfreight				
5	CIP Bengaluru international airport				

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 in the Envelop A)

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

1. Envelope “A”: Technical Bid

a) Section 5 Technical Bid (each page duly sealed and signed by the authorized signatory)

Annexure 1: Bidders details

Annexure 2: Details of purchase orders

Annexure 3: Declaration regarding experience

Annexure 4: Declaration regarding clean track

Annexure 5: Declaration for acceptance of tender terms and conditions

Annexure 6: Details of items quoted

b) Copy of this tender document duly sealed and signed by the authorized signatory on every page.

c) Checklist

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 the Tender no. and due date and the both these sealed covers are to be put in a bigger cover which should also be sealed and duly super scribed with our Tender No. & Due Date.