Notice Inviting Tender

Supply and Installation of Mass Spectrometer

Tender No. DBT-IISC/DBS-09/MS/2019-20



SCIENCE

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

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SECTION 1 – BID SCHEDULE

1	Tender No	DBT-IISC/DBS-09/MS/2019-20
2	Tender Date	28 th November 2019
3	Item Description	Supply and Installation of Mass Spectrometer
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	20 th December 2019, 15:00 hrs
7	Date of opening of technical bids	26 th December 2019, 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: 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 envelops (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. Incase 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 QUOATED 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 annual the bidding process and reject all binds 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:

The complete system is to be under warranty period of 3 year 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.** 80% of the purchase order value will be released against shipping documents and remaining
- 2. 20% 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: Mass Spectrometer

Mass Spectrometer should have following control specifications: Please provide cost of each component individually (Essential).

(itemized costing of each component should be listed separately)

S.No.	Specification	Essential/
		Desirable
	A complete setup of high resolution mass spectrometer along with 2-	
1	Dimensional nano LC and ultra-performance liquid chromatography is	
	required with highest quality performance in sensitivity, mass accuracy,	Essential
	resolution for comprehensive proteomics applications such as	
	protein/peptide identification, PTMs identification and analysis, De novo	
	sequencing, quantitative proteomics, top-down sequencing, label free	
	quantitation, labelled (iTRAQ, TMT & SILAC etc.) quantitation, and	
	metabolomic, lipidomic applications. The system must not require the use	
	of cryogens and should have the latest technology for quantitative and	
	qualitative analysis. All the hardware and software (with subsequent	
	updates) required for all above applications should be included in the	
	quote.	
	MS. The instrument must combine state of art mass analyzer/s required	
2	for the in-depth coverage in complex proteome analysis.	Essential
	Multiple fragmentations: The instrument should be able to carry out	
	multiple fragmentations techniques such as CID/HCD/ETD at any stage	
	of MS ⁿ with fragment ion detection.	
	Scan functions: The instrument must be able to perform MS and MS ⁿ	
3	acquisition in parallel.	Essential
	Quadrupole mass filter: The instrument should have a quadrupole	
4	mass filter that will enable filter precursor ion selection with precursor	Essential
	width from 0.4 - 1,200 amu. It should also provide precursor ion isolation	
	with high transmission from 50 - 5,000 m/z.	
	Mass range (m/z): The instrument must have a mass range (m/z) of	Essential
5	50-2000 Da in normal mode and m/z 200-150,000 in high mass mode.	
	Resolution and Mass accuracy: The instrument should have resolution	
6	from 2,00,000 to 1,000,000 FWHM at m/z 200 and isotopic fidelity up to	Essential
	240000 FWHM m/z 200. The instrument must provide mass accuracy of	
	<3 ppm RMS using external calibration and <1 ppm using internal	
	calibration.	
7	Scan rate: Scan rate must upto 20 Hz.	Essential
8	Dynamic Range: Dynamic range within a spectrum must be > 5,000.	Essential
	Polarity switching: The instrument should be able to switch ionization	
9	mode polarity within 1.1 sec (one full scan in positive mode and one full	Essential
	scan in negative mode at resolution setting of 35,000)	
	Data System: The software must have a robust instrument control	
10	software: User interface of the tuning and method control should be	Essential
	user friendly to allow easier instrument calibration and method	
	development. It should contain a library of application specific	
	templates for commonly performed analyses.	

	Advanced vacuum System: Fully protected high efficiency air cooled	
11	vacuum system using turbo molecular pump/equivalent and suitable	Essential
	backup pumps (including cooling pump if necessary) with minimum noise	
	and maintenance requirements. Vacuum system-read back and	
	automated vent system is mandatory. Automated shutdown and restart	
	after power failures, maintenance-free pumps.	
	2-Dimensional Nano Ultra High-Pressure Liquid Chromatography (2-D	
12	Nano LC) for Proteomics Applications:	Essential
	Individual costing for both Nano-LC and UPLC should be mentioned.	
	System should come with three each of strong ion exchange columns, C18	
	columns, C4 columns with guard columns for all. One set of nano-LC	
	maintenance kit and tool kit should be provided.	
	Pumping Modules: Flow rate 20nl/min - 2000 nl/min, Independent	
	nano pump for Sample introduction, Max Pressure unto 15,000 psi,	
	Retention Time reproducibility:0.1-0.5% RSD	
	Column packing machine for nano-LC	Optional
		(Recommended)
	Autosampler (XL): Injection Vol Range 0.1 μl- 18 μl, for 20 μl loop,	
13	Injection Precision< 0.3% RSD full loop. carryover (UV) < 0.05%,	Essential
	sample capacity >50 vials, microtiter plate 96/384. Syringe pumps: Two	
	syringe pumps or equivalent for direct infusion of samples including 10	
	numbers of syringes with different volumes like 0.5 ml, 1 ml, 2.5 ml, 5 ml,	
	10 ml. Temperature controlled.	
	Nitrogen generator: Internal. It should be extremely low noise, and	
	vibration free gas generator capable of providing all the gases of required	
	purity and flow rate control for the mass spectrometer for round the clock	
	including branded high-quality compressor with minimum five years	
	warranty.	
	Warranty and service support	E
14	Five year on-site comprehensive warranty for all parts of the IVIS and	Essential
	accessories supplied. Free maintenance and service must be provided	
	during warranty. Must include minimum 3 preventive maintenance	
	wish's per year. In case of instrument breakdown extending beyond 1	
15	Data system and analysis software: Itemized	Eccontial and
15	Data System and Software should have canabilities of	itomized
	Data System and Software should have capabilities of	iteinizeu
	 Instrument operation, maintenance and diagnosis. Automated calibration and quantitative optimization 	
	• All the percent coard angines, databases and libraries required	
	for global proteomics, metabolomics, glycomics and lipidomics	
	annlications should be included. The databases should be	
	updated for the entire duration of the warranty period	
	 Software to generate various data formats that enable MS/MS 	
	search in multiple search algorithms including MASCOT. SEQUEST	
	and others. It should support top-down identification and	
	characterization of proteins. with features of supporting	
	quantitative labelling proteomic approaches (e.g. iTRAO, ICAT,	
	SILAC, TMT) as well as label free analysis (SIEVE).	
	 Automated identification of post-translational modifications (over 	
	150 biological modifications and substitutions) at one time using	
	the fast, effective PTM discovery workflow. Software related to	
	PTMs identification and characterization should be provided.	
	Software to perform targeted protein, peptide and metabolite	
	quantification.	

	Fully supported for both Gel based, and LC based workflows	
	without need for any additional software.	
	Automated metabolite identification (global) using spectral trees	
	and accurate mass data.	
	Predictive fragmentation software for spectral interpretation and	
	classification software to identify unknowns. Powerful, easy de	
	novo sequencing.	
	A metabolite ID processing software package should be available.	
	A direct link to the protein annotation and classification for easy	
	visualization, annotation and linkages of biological significance	
	and functions to the identified proteins.	
	Proteomics and metabolomics integrated software to understand	
	the biological context of identified proteins and metabolites	
	including pathways.	
	Software updates or newer versions should be given up to	
	warranty period.	
	• 2 or more analyses licence/s (along with a suitable computer	
	which can be locally provided) should be provided for data	
	analysis software.	
	A lipid ID processing software package should be available.	
	Software for top-down proteomics should be provided.	
	Software for label free proteomics should be provided.	
	Software for targeted proteomics should be provided.	
	 Software for glyco-proteomics including glycans characterization should be provided. 	
	 Automated differential expression analysis in proteomics. 	
	metabolomics and lipidomics applications.	
	Data Dependent and independent experimental features.	
	Complete data analysis workstations of international make with	
	latest configuration of hardware and licensed software	
	combination should be provided for all the applications along	
	with peripherals such as high-resolution network enabled color	
	Laser Jet printers etc. There should be provision for data	
	backup/archive through the software like raid image.	
	Output of the data analysis/processing software should meet the	
	data required to submit for publication in major proteomics	
	journals. Advanced software for data analysis and publication like	
	scaffold and peaks studio software etc. should be included.	
16	UPS support: A multinational brand 10 KVA online uninterrupted Power	Essential
	Supply Unit (UPS) with minimum 2 hours power backup and capable of	
	meeting the power demand of the entire system including the main	
17	equipment, computers etc. should be supplied with five years warranty.	Facential
1/	instrument for smeeth installation (as nor instrument requirements) Gas	Essential
	Cylinders: Two sets of brand-new cylinders with required gas (belium and	
	nitrogen) should be included with regulators for each	
	Accessories: All the necessary accessories, spares and consumable	
	kits/reagents. calibration kits at least two sets should be quoted.	
	Site preparation: The vendor shall assess the location where the	
	instrument will be installed and prepare the site according to their	
	requirements.	
18	Vendor should provide onsite and offsite training at accredited laboratory	Essential
	as well as application support for all the applications such as quantitation,	
	PTMs, label free quantitation, top-down sequencing, lipidomics and	

	metabolomics for optimum use of equipment.	
	The vendor shall also provide at the vendor's expenses (with appropriate	
	remuneration inclusive of other labour laws based benefits), one	
	"technically-qualified, company-trained operator of the Mass	
	Spectrometer" for the duration of 5 years who will "exclusively" handle	
	day-today operations of the instrument installed at IISc.	
19	Instruments must be attended within 48 hours in case of breakdown.	Essential
	Downtime of instruments should be less than 15 days. In the event of	
	longer downtime, the vender shall increase the comprehensive	
	maintenance period by five times of the downtime.	
20	Delivery period: Within 4-6 weeks from the date of purchase order. In	Essential
	case of delay in supply on part of the supplier, a penalty @ 1% per week	
	of order value will be charged for delayed period subject to a maximum of	
	10% order value.	
21	HDX: A temperature-controlled module capable of performing HDX of	Preferable
	multiple samples in a sequential manner. It should be supplied with the	
	specific software for analysis of fragmented peptides post acquisition.	

Training and demonstration:

Yearly Training program (2 in the first year) on usage of the machine (hardware and software) for at least minimum 5 years by the successful bidder at bidder's cost to the end users at IISc, Bangalore.

C. Other Essential Features:

Accessories:

The above-mentioned technical specifications are highly desired. However, lower technical specifications may be considered if the above-mentioned specifications are found to be unsuitable in financial terms. The Institute reserves the right to go for lower specifications taking into consideration its financial constraints and technical preferences.

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 Mass Spectrometer

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)2017-182018-19

- 13. Earnest Money Deposit Details NIL
- 14. Tender Cost

(Signature of the Bidder) Printed Name Designation, Seal NIL

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

Annexure-3:

Declaration Regarding Experience

Τo,

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 Mass Spectrometer

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

Annexure-4:

Declaration Regarding Clean Track by Bidder

Τo,

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

Ref: Tender No: XXXXXX,Dated: XXXXX

Supply and installation of Mass Spectrometer

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

Annexure – 5:

Declaration for Acceptance of Terms and Conditions

Τo,

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

Ref: Tender No: Dated:

Supply and installation of Mass Spectrometer

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

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 Mass Spectrometer

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.