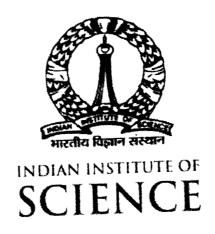
Notice Inviting Tender

Supply and Installation of Live Cell Confocal system containing high sensitivity detector along with FLIM module

Tender No. DBT-IISC/ DBS-04/CONFOCAL-FLIM /2019-20



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

July 2019

Department of Molecular Fe

Development and Genetics Indian Ir stitute of Science Dangalore - 200 042 DBT-IISc Partnership Program Phase-II at IISc

Project Investigator

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SECTION 1 – BID SCHEDULE

1	Tender No	DBT-IISC/ DBS-04/CONFOCAL-FLIM /2019-20
2	Tender Date	27 th July 2019
3	Item Description	Supply and Installation of Spinning disk confocal Super Resolution system with live imaging
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	16 th August 2019, 15:00 hrs
7	Date of opening of technical bids	19 th August 2019, 16:00 hrs
8	For further clarifications	Principal Investigator, DBT-IISc Partnership Program Office, Biological Sciences, Indian Institute of Science Bangalore- 560012, India Email: deepaksaini@iisc.ac.in with copy to vijaylakshmi@iisc.ac.in 080-2293 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 envelops (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.
- 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.
 - 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.
- Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories 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) 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:

- 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.
- 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 Motorized Inverted Fluorescence Research Microscope:

S.No.	Specification	Essential/Desirable
1	Fully Motorized Inverted Fluorescence Microscope for BF/DIC/Fluorescence preferably with touch pad for controlling motorized components of the microscope	Essential
2	Tiltable binocular / trinocular eyepiece	Essential
3	Programmable fast motorized X-Y scanning stage including sample holders for slides, 35/60 mm Petri dish, labtek chambers and multi well dishes with multipoint, tile and mosaic imaging software (capable of fast 6D imaging).	Essential
4	Fast stage insert for z stack imaging with travel range of 100 microns or better.	Optional
5	Hardware Based Focus Drift compensation for long term live cell imaging application is mandatory.	Essential
6	LED illumination for Fluorescence catering to the following fluorophores to be included.	Essential
7	Band pass fluorescent filters for DAPI, CFP, GFP, TRITC, mCh and Cy5.	Essential
8	Motorized 6 position DIC nosepiece, Motorized Condenser NA 0.55 or better with modules for DIC, minimum 6 position fluorescence turret for accommodating fluorescent filters for sample visualization and camera based imaging.	Essential
9	High precision Z-focus drive with step size of 25 nm or better.	Essential
10	Plan super apochromat objectives - 40x/1.40 oil, 60/63x/1.40 oil immersion, 100X/1.40 oil, and confocal compatible lenses for 10X/0.40, Long Distance 20X/0.40 (WD 8 mm or better), 20X/0.80. Separate objective, 40x/1.20 water or better for FLIM work.	Essential (Equivalent lenses with justification will be considered)
11	Automated shift free DIC accessories for all objectives.	Essential
12	Setup for long term live cell imaging including Incubation system with Temperature, CO ₂ , humidity control. The parameters for incubation system should be controlled by a software preferably with ability to record the Temperature, CO ₂ level and RH at periodic intervals of ~10 minutes or lesser.	Essential
13	ScMOS camera, controlled by the same confocal software for multichannel, z stack, time lapse wide field imaging for epifluorescence and DIC imaging. QE 65% or more. 2k array; minimum 6 fps. Capable of full color imaging.	Essential
	Anti Vibration Optical Table	

A.1) Confocal imaging unit with high sensitivity detectors.

S.No.	Specification	Essential/Desirable
1	Detectors should be capable of simultaneous detection of minimum 4 fluorophores or more based on high sensitive GaAsP/HyD or equivalent detectors or PMTs with QE 45% or more.	Essential
2	The scanner should have ROI scan capability for fast scan.	Essential
3	Scan speed should be 6-12 fps or better @ 512x512.	Essential
4	Transmitted PMT for laser based DIC imaging.	Essential

A.1.1) Laser modules with AOTF control. Only solid state lasers.

S.No.	Specification	Essential/Desirable
•	405 nm, 445 nm, 514 nm, and 565 nm, equivalent. All visible & UV lasers should be connected to the scan head and should be controlled through AOTF for fast laser switching and attenuation in pixel precise synchronization with the laser scanner. ROI scan for FRAP, PA/conversion experiments.	Essential

A.1.1.1) FLIM module

S.No.	Specification	Essential/Desirable
1	FLIM module: Two Channel FLIM system with 2048 x 2048 pixels and 256 time channels detection or better	Essential
2	Time resolution: IRF ~ 10 ps or better Histogram time resolution: < 100 ps Pulsed light sources: 473 nm, 515 nm, 640 nm (or equivalent) (with ports and other optical hardware provided for 1024 nm future expansion). Rep Rate: 20 MHz or greater (External Trig. Control using TTL Preferred) Common detectors for NDD and Descanned port.	Essential
3	Analysis routines for single component and multi component fits across channels	Essential

A.1.3) System control and Imaging Software:

S.No.	Specification	Essential/Desirable
1	Software should be capable of controlling every component of the system including microscope, incubation system, confocal setup. Should be compatible for 3D, 4D, 5D and 6D imaging (X,Y,Z,t, multi color, multi point). Image stitching in coordination with XYZ stage. FLIM image reconstruction and analysis ,Fitting of single and multiple lifetime analysis software.	Essential
2	FRET imaging as well as Quantitative data analysis capability.	Essential
3	Advanced 3D image reconstruction with rendering from a Z- stack image series including 3D Blind deconvolution capability in widefield, confocal and Super resolution deconvolution modalities (for all the three PSFs).	Essential
4	Co-localization and histogram analysis with individual parameters.	Essential
5	Roi selection for FRAP, Photo activation/conversion experiments	Essential

A.1.4) Computer and Monitor:

S.No.	Specification	Essential/Desirable
1	State of the art 64 bit control computer with minimum Intel Xeon 6 Core Processor, DDR RAM 48 GB or more; primary HDD – 512 GB SSD or better; secondary HDD: 4 TB SATA upgradable to 8 TB or better, DVD, SuperMulti SATA +R/RW, Graphics: dedicated dual display with minimum 2 GB internal RAM, Gigabit Ethernet, Win 7 Ultimate 64 bit or better, USB 2.0/3.0, Fire wire. Large 30" LED monitor. OR equivalent Suitable secondary analysis computer and complete analysis license package to be included.	Essential

B) Accessories:

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

S.No.	Specification
1.	Suitable vibration isolation table with silent automated compressor pump (should have a free space of ~ 1 feet or more surrounding the equipment post installation and functioning) comprising of the following: a) Optical Table Top: Optical bread board with stainless steel skin (~ 5 mm or more) with M6 individually sealed threaded holes with > 4 inch thick honeycomb based vibrational damping. b) Auto Leveling Pneumatic Vibration Isolators with compressor and leveling valves. The isolators together with table top should present a workspace that is 3 feet from the floor.
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

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	
-	Email ID	
7	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 Live Cell Confocal systematics along with FLIM module	m containing high sensitivity detector
Sir,	
I've carefully gone through the Terms & Conc tender. I hereby declare that my company supplying and installing Live Cell Confoca detector along with FLIM module.	/ firm has years of experience in
(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: XXXXXXX

Dated: XXXXX

Supply and installation of Live Cell Confocal system containing high sensitivity detector along with FLIM module

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

SI.No.	Country in which the	Blacklisted / debarred by	Reason	Since when and
	company is Debarred	Government / Semi		for how long
	/blacklisted / case is	Government/Organizations		
	Pending	/Institutions		

(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
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(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 Live Cell Confocal system containing high sensitivity detector along with FLIM module

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the abovereferred 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.