

## Notice Inviting Tender

Supply and Installation of  
Spinning disk confocal system with  
live imaging

Tender No. SM-IISC/MCB-01/SPINNING-DISK/2025-26



INDIAN INSTITUTE OF  
**SCIENCE**

Wide-field with spinning disc at MCB  
Division of Biological Science  
Indian Institute of Science  
Bangalore – 560012

September 2025

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## SECTION 1 – BID SCHEDULE

1	Tender No	SM-IISC/MCB-01/SPINNING-DISK/2025-26
2	Tender Date	8 Sept 2025
3	Item Description	Supply and Installation of Spinning disk confocal
4	Tender Type	Two Bid System a) Technical Bid (Part-A) b) Commercial Bid (Part-B)
5	Place of Submission and tender opening	Address: Microbiology and Cell Biology Office, Department of Biological Sciences, Indian Institute of Science, Bangalore – 560012, India
6	Last Date & Time for submission of tender	29 Sept 2025, 15:00 hrs
7	For further clarifications	Address: Microbiology and Cell Biology Office, Department of Biological Sciences, Indian Institute of Science Bangalore-560012, India Email: shova@iisc.ac.in with copy to Office.mcb@iisc.ac.in 080-2293 2365

## 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.
6. Only the Original Equipment Manufacturer or their authorized representatives shall participate in the bid.
7. The order will be placed only on the bidder who participated in the bid.

## 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, Department of Microbiology and Cell Biology, 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– Dr. Shovamayee Maharana, Dept. of Microbiology and Cell biology, Division of 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, the offer not conforming 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 2 years 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) Buyback Offer:

The bidder(s) should provide a buyback offer value against the existing ..... which was procured and installed in the year ..... Bidder(s) can have site visit, if required.

L) 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 bidder should quote the price all-inclusive of the shipping (custom duty etc.) till door and installing costs too. The payment will be through a Letter of Credit and the terms of payment are negotiable.

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 Motorized Inverted Fluorescence Research Microscope:

S.No.	Specification	Essential/Desirable
1	Most recent model of the fully Motorized Inverted Fluorescence Microscope for BF–Fluorescence preferably with touch pad or TAB for controlling motorized components of the microscope	Essential
2	Tiltable binocular eyepiece	Essential
3	Programmable motorized X–Y scanning stage (linear encoded) 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	IR LED Based Focus Drift compensation for long term live cell imaging application is mandatory.	Essential
5	LED illumination for Fluorescence catering to the following fluorophores to be included. DIC attachment for 20X,60X Objective with analyzer and polarizer attachment.	Essential
6	Band pass fluorescent filters for DAPI, GFP, Cy3 and Cy5 or specific wavelength LEDs for LED unit. Life time for LED should be 20,000hrs or more.	Essential
7	Motorized 6 position DIC nosepiece, Motorized Condenser NA 0.52–0.55 or better with modules for DIC, minimum 6 position fluorescence turret for accommodating fluorescent filters for sample visualization and camera based imaging.	Essential
8	High precision Z–focus motorised drive with step size of 25 nm or better.	Essential
10	Plan super apochromat objectives and confocal compatible lenses with correction collar – 20x/0.80 air, 60/63x/1.40oil immersion, 100X/1.40oil,	Essential
11	Automated shift free DIC accessories for all objectives.	Essential
12	CCD/CMOS camera, controlled by the same confocal software for multichannel, z stack, time lapse wide field imaging for epifluorescence and DIC imaging. More than	Essential

	60 megapixel, at least 9K high resolution; QE 85% or more at 500nm. Readout noise should be less than 6e-. Speed at full frame should be equal or more than 6 fps and after cropping should be equal to or more than 220 fps. Built-in Electric Cooling or Air cooled upto -20°C or less.	
12	An active anti-vibration table with compressed air damping, bread board table top with M-6 threading for the complete microscope system. 3 feet by 4 feet	Essential

#### A.1) Spinning disk confocal imaging unit

S.No.	Specification	Essential/Desirable
1	Spinning disk scanning confocal system with high sensitive CCD or CMOS detectors. Detection unit should work in epifluorescence and confocal. real time confocality with a bypass mode. System should have Excitation range of 390–750nm and emission range of 430nm–850nm, capable of capturing 22mm field of view or better .	Essential
2	Minimum XY resolution of 230nm and Z resolution of 600 nm.	Essential

A.1.1) Laser modules with AOTF control. All solid state lasers only. Minimum requirements.

S.No.	Specification	Essential/Desirable
1	405 nm, 488 or 470 nm, 532 or 561 or 555 nm and 640 nm. All visible & UV lasers should be connected to the scan head and should be controlled through AOTF / direct modulation for fast laser switching and attenuation. Laser lines should be 200 mW or better	Essential
2	Field of view – upto 22 mm for Imaging , Compatibility– with both upright and inverted microscopes, at least 5 position filter wheel, Bypass mode, Rotation speed– 15000 rpm	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, , Spinning Disk confocal setup, . Should be compatible for 3D, 4D, 5D and 6D imaging(X,Y,Z,t,multi color, multi point, multi modality).	Essential
2	Quantitative data analysis capability like Automated measurements, Intensity measurements etc.	Essential
3	Advanced 3D image reconstruction with rendering from a Z-stack image series including 3D Blind deconvolution capability in widefield, confocal.	Essential
4	Co-localization and histogram analysis with individual parameters.	Essential

#### A.1.4) Computer and Monitor:

S.No.	Specification	Essential/Desirable
1	<p>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.</p> <p>Suitable secondary analysis computer and complete analysis license package to be included.</p>	Essential

#### B) Accessories:

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

#### D) 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

Address:

Microbiology and Cell Biology Department,  
Division of Biological Science,  
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

Sl 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,

Address:

Microbiology and Cell Biology Department,  
Division of Biological Science,  
Indian Institute of Science,  
Bangalore – 560012, India

Ref: Tender No: SM-IISC/MCB-01/SPINNING-DISK/2025-26

Dated: XXXXX

Supply and installation of Spinning disk confocal Super resolution system with live imaging

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ----yearsof experience in supplying and installing Laser Router for Metal Cutting System of this class.

(Signature of the Bidder)

Printed Name

Designation, Seal      Date:



Annexure-3:

Declaration regarding track record

To,

Address:

Microbiology and Cell Biology Department,

Division of Biological Science,

Indian Institute of Science,

Bangalore – 560012, India

Ref: Tender No: SM-IISC/MCB-01/SPINNING-DISK/2025-26

Dated: XXXXX

Supply and installation of Spinning disk confocal Super resolution system with live imaging

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:

Declaration for acceptance of terms and conditions

To,

Address:

Microbiology and Cell Biology Department,

Division of Biological Science,

Indian Institute of Science,

Bangalore – 560012, India

Ref: Tender No: SM-IISC/MCB-01/SPINNING-DISK/2025-26

Dated: XXXX

Supply and installation of Spinning disk confocal Super resolution system with live imaging

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:

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.

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

Sl 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 (2 years)				
5	Cost of Insurance and Airfreight				
6	CIP/CIF IISc, Bengaluru				

Sl No	Description	Quantity	Unit Price	GST	Total

Addressed to:

Address:

Microbiology and Cell Biology Department,  
Division of Biological Science,  
Indian Institute of Science,  
Bangalore – 560012, India

## SECTION 6– CHECKLIST

(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.