

# **GLOBAL TENDER NOTICE**

## **Supply and Installation of Light Sheet Microscope**



**TENDER DOCUMENT**

**IISC/BE/25-26/G05**

**Department of Bioengineering  
Indian Institute of Science, Bangalore**

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## BID SCHEDULE

1	Tender Number	IISC/BE/25-26/G05
2	Tender date	4 <sup>th</sup> November 2025
3	Item description	Supply and installation of Light Sheet Microscope
4	Tender type	Two bid system: a. Technical Bid (Part A) b. Commercial Bid (Part B)
5	Place of tender submission	Office, Department of Bioengineering TCS-X Smart Hub Indian Institute of Science, Bangalore 560012 080-2293-2624
6	Last date and time for tender submission	26 <sup>th</sup> November 2025, 5:00 PM
7	For further clarification	Department of Bioengineering TCS-X Smart Hub Indian Institute of Science, Bangalore560012 Email: <a href="mailto:rachit@iisc.ac.in">rachit@iisc.ac.in</a>

## **Eligibility Criteria**

Prequalification criteria:

1. The Bidder's firm should have existed for at least 5 years. The bidder should enclose company registration certificate.
2. Only the Original Equipment Manufacturer or their authorized representatives across the globe shall participate in the bid.
3. 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.
4. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per Annexure 4.
5. The Bidder should provide a support certification as per Annexure 6
6. The Bidder should have qualified technical service personnel for the instrument(s) based in India.
7. Foreign currency quotations should be on CIP Bangalore basis. INR quotes should be on a FOR-IISc Bangalore basis.
8. The order will be placed only on the bidder who participated in the bid.

## **Terms and conditions**

### **A. Submission of Tender:**

1. All documentations in the submission should be in English.
2. The bid should be submitted in the two-cover system, i.e., technical bid and commercial bid separately in sealed covers.
  - a. Technical Bid (Part-A) – The technical proposal should contain a compliance table besides the technical specifications listed in the description section below. The compliance table should include all the items and in the same order. The first column should describe your compliance in a “Yes” or “No” response. The second column should state the extent of deviation if the answer was no or describe the exact specifications if the answer is yes. The “third” column should state the reasons for the deviation if the answer was No. The fourth column can be used to compare your solution with that of your competitors or provide details as requested in the technical requirements table below. Suppliers who include any indication of prices in the technical bid will be automatically disqualified.
  - b. Commercial Bid (Part-B) – Commercial bid indicating item wise price breakdown for the items mentioned in the technical bid, as per the format provided in tender, and other commercial terms and conditions. The price should be inclusive of all discounts and installation and training.
  - c. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.
  - d. The SEALED COVER superscripting tender number / due date should reach the address mentioned above on or before due date mentioned in the tender notice. In case the due date happens to be a holiday, the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.
3. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document and provide a copy of both documents (Indian Bidders only).
4. If price is not quoted in Commercial Bid as per the format provided in tender document the bid is liable to be rejected.
5. 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.

6. A technical evaluation by the purchase committee may include a demonstration at the Indian Institute of Science to verify the functionalities and capabilities of the system quoted. The technical/purchase committee reserves the right to decide the time frame within which the demonstration must be completed. The technical/purchase committee also reserves the right to reject the bids based on their technical evaluation of the quality of data, capability demonstration, and service. If the data/requested capability demonstration does not happen within a stipulated timeframe, the bid will be rejected. Any discrepancy between the promised specifications and measurements will be deemed as technical non-compliance.
7. All components and accessories should indicate component-wise and itemized breakup. Provide certificates for the country of origin of manufacturing for each line item. The price of every line item in the commercial bid should be quoted along with the total quoted price for the instrument to be operational (installed and ready to use) in our facility.
8. The purchase committee 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.
10. The decision of purchase committee will be final.

**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 the offer:**

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required eligibility 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 essential items and selected optional items tendered for basic equipment along with accessories selected for installation, operation, pre-processing and post processing, optional items, recommended spares, warranty, annual maintenance contract. Hence, the bidder should provide best price for all essential and optional items asked in the tender under technical specifications.

**E. Pre-requisites:**

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

**F. Warranty:**

The complete system is to be under warranty as listed in the technical specifications below including free supply of consumables, spare parts, and data analysis software from the date of functional installation. Vendor should include cost of any spares that are expected to be needed during the warranty period, including electronics, subcomponents, and software. If the instrument is found to be defective, it must 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.

**G. Annual Maintenance Contract (AMC):**

An annual maintenance contract as listed in the technical specifications below.

**H. Purchase Order:**

1. The order will be placed on the bidder whose bid is accepted by IISc Bangalore 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.
4. After the award of the purchase order, the vendor must provide an Order Acknowledgement within 30 days from the receipt of the Purchase Order

**I. Delivery, Installation and Training:**

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 4-6 months 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. The bidder should also arrange for technical training to the local facility technologists and users. The bidder should provide onsite application training for the local facility technologists and users. The bidder should also arrange technical training for the local facility technologists and users.

**J. Payment Terms:**

For INR quotes, 100% payments will be released after completion of delivery, satisfactory installation, and qualification, subject to TDS as per rules. As per GFR no advance payment can be made to domestic vendors. For INR quotes, the price must be on FOR IISc Bangalore basis only.

**K. 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.

**L. Dispute 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.

**M. 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. 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.

## Technical specifications

	Description	Specifications
1.	Microscope body	Inverted or upright microscope frame with one or two camera ports
2.	Eyepiece	A binocular observation tube with 10x eyepiece with atleast 22mm field of view
3.	Nosepiece	Should allow atleast 6 objectives to be installed and should be motorised
4.	Frame	Frame should be fully motorized
5.	Stage	Motorised X, Y and Z stage
6.	Sample holder	sample holders to accommodate different sample sizes including samples on slides, petri dishes
7.	Transmitted illumination	LED based illumination with >50000 hour lifetime
8.	Detection Objectives	2X, NA > 0.1 Air objective, working distance >15mm 10X, NA > 0.5 clearing objective, working distance > 7 mm 40X, NA > 0.75 water objective , working distance > 3 mm
9.	Illumination objectives	Two 10x illumination objective
10.	Condenser	Condenser with NA > 0.5 and compatible with 2X to 60X objectives
11.	Lasers	Minimum three lasers are required. Each laser should be controlled separately. These lasers should be compatible with following dye imaging. DAPI, FITC/GFP and TRITC
12.	Filter Turret	Atleast 6 position motorized filter turret for Epi-fluorescence
13.	Objective Turret and arm	Motorized illumination objective turret, and motorized arm for light sheet calibration and imaging
14.	Sample placement	Motorized sample placement and adjustment in the instrument.
15.	Fluorescence Filters	Atleast four fluorescent filters compatible with below listed dyes should be provided. It should be possible to install all these along with light provision simultaneously: DAPI, FITC/GFP, TRITC, Cy5
16.	Light Sheet	Large field of view coverage and allow uniform resolution. Dual-sided illumination system to ensure uniform light coverage. The system should ensure light sheet alignment and should support up to four distinct illumination objectives each side of the system. The

		<p>illumination objectives should be installed on two motorized, rotatable illumination objective turrets.</p> <p>Multiscale acquisition enabled by a set of illumination and detection objectives with varying magnifications and numerical apertures, installed on motorized rotatable objective turrets.</p> <ul style="list-style-type: none"> <li>• Brightfield illumination capability for sample observation.</li> <li>• Eyepiece observation of samples illuminated by transmitted light and/or light sheet, via a trinocular head equipped with a C-mount video port and mounted on a microscope frame.</li> <li>• Automatic dynamic chromatic shift correction in both detection and illumination beam paths for multi-wavelength acquisition, ensuring precise alignment and optimal colocalization in expanded samples.</li> <li>• Multi-wavelength imaging capabilities, including laser switching, power delivery adjustment, and depth-dependent power adjustment.</li> <li>• Dual-sided illumination system mounted on two independent motorized XYZ platforms for precise alignment.</li> <li>• Motorized sample chamber loading system for sample observation and imaging</li> <li>• Motorized horizontally oriented sample holder on which samples can be placed</li> </ul>
17.	Light Sheet thickness	<p>LIGHT SHEET THICKNESS / Beam Waist : 1.5 <math>\mu</math>m to 5 <math>\mu</math>m</p> <p>Spectral Detection Range : 420 - 800 nm</p> <p>two opposite illuminating objectives.</p>
18.	Finder Camera	>10 mm sensor diagonal, frame rate of 40 fps or higher at full resolution
19.	Live sample imaging	Full Enclosure Incubator controlling CO <sub>2</sub> between 0-15%, temperature between 4 to 40 °C and humidity 50-90% along with objective heater
20.	Microscope Software	<p>A single software should control all the motorized components of the microscope</p> <p>Software support for automatic XY-tiling.</p> <ul style="list-style-type: none"> <li>• Software support for 3D sample preview.</li> <li>• Software support for user-defined controls for maintaining uniform resolution, light sheet positioning, and alignment.</li> <li>• Software support for selection and switching of illumination and detection objectives, enabling reliable multi-scale imaging without compromising image registration or introducing distortion.</li> <li>• Software support for motorized correction collar and depth-dependent light sheet focus adjustment.</li> <li>• Software support for dynamic adjustment of the detection objective's focal plane.</li> <li>• Software support for sample rotation and time-lapse imaging.</li> <li>• User-friendly software to support large-scale data acquisition.</li> </ul>
21.	Analysis software	<p>Advanced software to ensure smooth and interactive 3D visualization.</p> <p>Software should be compatible with data generated by SPIM, compatible with .tif files, allow precise mosaicking, tiling, deconvolution, should enable volume rendering, segmentation, and</p>

		detection of biological objects. Should be able to perform quantitative analysis of images generated.
22.	Acquisition Station	A system equivalent or better than the following configuration <ul style="list-style-type: none"> <li>• Desktop Intel Core i7-7700K 4.2Ghz – 2 x 16Gb RAM DDR4.</li> <li>• ASUS GeForce GTX1060-6Gb.</li> <li>• Hard Disk Seagate Barracuda 4 x 4TB, Raid0 (possible Raid5) configuration. • Hard Disk SSD Samsung 1xTB.</li> <li>• Windows 11 / 64 professional. • Set of 2 x 32" screens.</li> </ul>
23.	Camera	SCMOS camera with peak quantum efficiency of at least 80% and > 6 μm x 6 μm pixel size, Pixel Array of at least 2048 x 2048
24.	Power Source	Should be directly usable with 230 V/50 Hz
25.	Certification	Equipment should have ISO/CE certification. Please provide a copy of valid certificate
26.	Customer base	Similar or identical item must have been supplied to at least ten university/institute across the globe. Please provide the name and contact numbers of atleast five total referee using your instrument at these organizations.
27.	Warranty	Minimum 1 year
28.	Support	Necessary training / instructions on operation of the system should be given by the qualified engineers of the tenderer firm to IISc technical staff free of cost after completion of the installation.  Must have dedicated service and application support in Bangalore for this instrument. Please provide details of the number of trained personnel in Bangalore who will provide support
29.	Breakdown addressing	Service call within 48 hours of complaint registration
30.	Operator	A highly trained operator for one year available during working hours at IISc Bangalore to run samples and train users
<b>Optional Accessories</b>		
31.	AMC	One year AMC
32.	Analysis Station	A system equivalent or better than the following configuration  A separate Hybrid Image Storage & Processing unit is supplied. It includes a PC for receiving, storing, and processing data from the acquisition unit, with the following or better characteristics:  <ul style="list-style-type: none"> <li>• 120 TB RAID5 storage capacity, data redundancy for storage and 800MB/s read/write speed.</li> <li>• 10 TB NVMe processing drive for fast processing and temp files. 3000+ MB/s read/write speed. • 13th generation i9 CPU, 24 cores. <ul style="list-style-type: none"> <li>• 192GB SDRAM.</li> <li>• Nvidia PRO GPU with 20GB VRAM.</li> <li>• 10 Gbps Ethernet card. <ul style="list-style-type: none"> <li>• 2x USB3.2 Gen2.</li> <li>• 4x USB 3.2 Gen1.</li> </ul> </li> </ul> </li> </ul>

33.	Lasers	Laser should be compatible with Cy5 dye imaging
34.	Detection Objective	60X, NA > 0.9 water objective , working distance > 1.5 mm
35.	Detection Objective	20X, NA > 0.5 water objective , working distance > 3 mm
36.	Anti-vibration Table	Size: 900 mm x 900 mm x 100 mm, Top skin: 5 mm thick magnetic, Bottom skin: 5 mm thick magnetic, Core: Honeycomb core made of 0.26 mm thick sheet, Flatness of the top: +/- 0.1mm over 300mm x 300mm area, Mounting holes: M6 tapped holes on top on 25 mm grid, Side walls: Compressed wooden particle boards to dampen acoustic vibrations, Low Noise Air Compressor (1 Nos) Imported, Sound Level 30dB, Capacity 1 Liter, Working Height of Table 750 to 850 mm

## **Section 5- Technical Bid**

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

The Chairperson,  
TCS Smart-X Hub  
Department of Bioengineering,  
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.	Item	Details
1	Name of the bidder	
2	Nature of Bidder (Attach an attested copy of Certificate of Incorporation/ Partnership Deed)	
3	Registration No/ Trade License, (attach attested copy)	
4	Registered Office Address	
5	Address for communication	
6	Email ID	
7	Website	
8	Contact person- Name and Designation	
9	Telephone No	
10	PAN No. (attach copy) For Indian Vendor only	
11	GST No. (attach copy) For Indian Vendor only	

Signature of the bidder

Name

Designation, Seal

Date

**Annexure-2:**

Declaration regarding experience

To,  
The Chairperson,  
TCS Smart-X Hub  
Department of Bioengineering,  
Indian Institute of Science,  
Bangalore – 560012, India.

Ref: Tender No: XXXXXXXXXX

Dated: XXXXX

Dear Sir/Madam

I've carefully reviewed the Terms & Conditions in the above-referred tender. I hereby declare that my company/firm has ----- years of experience in supplying and installing the proposed equipment.

(Signature of the Bidder)

Printed Name  
Designation, Seal

Date:

**Annexure-3:**

Declaration regarding track record

To,  
The Chairperson,  
TCS Smart-X Hub  
Department of Bioengineering,  
Indian Institute of Science,  
Bangalore – 560012, India.

Ref: Tender No: XXXXXXXX

Dated: XXXXX

Dear Sir/Madam,

I've carefully reviewed the Terms & Conditions 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 a 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 / SemiGovernment/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 the period for which the company/firm was blacklisted and the reason/s for the same).

Yours faithfully

(Signature of the Bidder)

Name  
Designation, Seal

Date

**Annexure – 4:**

Declaration for acceptance of terms and conditions

To,  
The Chairperson,  
TCS Smart-X Hub  
Department of Bioengineering,  
Indian Institute of Science,  
Bangalore – 560012, India.

Ref: Tender No: XXXXXXX  
Dated: XXXX

Dear Sir/Madam,

I've carefully reviewed the Terms & Conditions mentioned in the above-referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name  
Designation, Seal

Date:

## **Annexure – 5:**

Details of items quoted:

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. 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 the technical bid.
3. Bidders should clearly indicate compliance or non-compliance with the technical specifications provided in the tender document.

## **Annexure 6 – Support Certification**

Declaration for instrument support

To,  
The Chairperson,  
TCS Smart-X Hub  
Department of Bioengineering,  
Indian Institute of Science,  
Bangalore – 560012, India.

Ref: Tender No: XXXXXXX

Dated: XXXX

Dear Sir/Madam,

I've carefully reviewed the Terms & Conditions mentioned in the above-referred tender document. I declare that the model quoted has not been discontinued by our organization and the repair parts will be available for atleast another ten years. 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:

## Section 6 – Commercial Bid

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

S. No.	Description	Cat. Number	Quantity	Unit Price	Sub Total
1.	Essential items noted in the technical specification				
1a	...(details of essential items)				
1b	...				
2.	Optional items noted in the technical specification				
2a	...(details of Optional items)				
2b	...				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (1 year)				
6.	Cost of Insurance and air freight				
7.	CIP/CIF/FOR IISc, Bengaluru				

Any additional items

S. No.	Description	Cat. Number	Quantity	Unit Price	Sub Total

Addressed to

The Chairperson,  
TCS Smart-X Hub  
Department of Bioengineering,  
Indian Institute of Science,  
Bangalore – 560012, India.

## **Section 7 – Checklist**

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

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

### **A. Sealed Envelope “A”: Technical Bid**

1. Section 5 - Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:
  - a. Annexure 1: Bidders details
  - b. Annexure 2: Declaration regarding experience
  - c. Annexure 3: Declaration regarding clean track record
  - d. Annexure 4: Declaration for acceptance of terms and conditions
  - e. Annexure 5: Details of items quoted
  - f. Annexure 6: Support Certification
2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

### **B. Sealed 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., Tender description & Due Date.