

# Global Tender Notification for the procurement of “High-Speed Camera”

at the Indian Institute of Science, Bangalore

(Last date of submission of tender: **05-January-2026**)

Date: 15 December 2025

## Tender Summary

This is a Request for Quote (RFQ) from all manufacturers or their authorized Indian distributors for the supply of a “**High-Speed Camera**” to the Department of Mechanical Engineering, Indian Institute of Science (IISc), Bengaluru.

|   |           |                      |   |
|---|-----------|----------------------|---|
| 1 | Section 1 | Bid Schedule         | As specified by IISc  |
| 2 | Section 2 | Eligibility Criteria | As specified by IISc  |
| 3 | Section 3 | Specifications       | Technical specifications  |
| 4 | Section 4 | Terms and Conditions | As specified by IISc  |
| 5 | Section 5 | Technical bid        | Annexure 1: Bidder details                                      |
|   |           |                      | Annexure 2: Declaration regarding experience of bidder          |
|   |           |                      | Annexure 3: Declaration regarding track record of bidder        |
|   |           |                      | Annexure 4: Declaration of acceptance of Terms and conditions   |
|   |           |                      | Annexure 5: Details of item quoted                              |
| 6 | Section 6 | Commercial bid       | Quotation with Price, Technical specifications of the Equipment |

**Section 1: Bid Schedule**

|    |   |  |
|----|---|--|
| 1. | Instrument                              | High-Speed Camera  |
|    | Quantity                                | One  |
| 2. | Tender type                             | Two-bid system:<br>1. Technical bid (Part A)<br>2. Commercial bid (Part B)   |
| 3. | Place of tender submission              | The Chairman<br>Department of Mechanical Engineering<br>Indian Institute of Science<br>Bangalore 560012, India.<br>Kind attention: Prof. Saptarshi Basu  |
| 4. | Last date and time of tender submission | 15 January 2026, 5 PM (IST)  |
| 5. | Contact for further clarification       | Prof. Saptarshi Basu<br>Department of Mechanical Engineering<br>Indian Institute of Science<br>Bangalore 560012, India.<br>Ph: +91-80-2293-3367<br>Email: <a href="mailto:sbasu@iisc.ac.in">sbasu@iisc.ac.in</a> |

**Section 2: Eligibility Criteria**

Prequalification criteria:

1. The Bidder’s firm should have existed for at least 3 years. Bidders should enclose a self-declaration.
2. Only the Original Equipment Manufacturer or their authorized representatives across the globe shall participate in the bid.
3. The order will be placed only on the bidder who participated in the bid.
4. Foreign currency quotations should be on CIP Bangalore basis. INR quotes should be on a FOR-IISc Bangalore basis.
5. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per - Annexure 4.
6. 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 must 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 envelopes (two bid system).
  - a) Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications. The technical bid must not contain any price information. The technical proposal should contain a technical compliance table or compliance certificate with 5 columns. The first column must list the technical requirements, in the order that they are given in the technical requirement below. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible. The third column should describe your compliance with a “Yes” or “No” only. Ensure that the entries in column 2 and column 3 are consistent. The fourth column should state the reasons/explanations/context for deviations, if any. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details, compare your solution with that of your competitors or provide details as requested in the technical requirements table below. Tender documents without technical compliance documents will not be considered.
  - 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. In the commercial bid, the price should be inclusive of all discounts.
3. The technical bid and commercial bid should each be placed in **separate sealed covers**, superscribing on both the envelopes with the Tender No. and Due Date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscribed with the Tender No, Tender Description & Due Date.
4. The SEALED COVER superscribing with the Tender No., Tender Description & Due Date should reach The Chairman Attn: Prof. Saptarshi Basu, Department of Mechanical Engineering, Indian Institute of Science, Bengaluru, Karnataka 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 queries are to be addressed to the person identified in “Section 1 - Bid Schedule” of the tender notice.
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 per the format 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 Bengaluru, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

1. To accept OR reject lowest tender or any other tender or all the tenders.
2. To accept any tender in full or in part.
3. 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 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 Bengaluru, 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:
  - i. Non-submission of complete offers
  - ii. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
  - iii. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bengaluru 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 as essential items (except optional items) along with accessories selected for installation, operation, pre-processing and post-processing, recommended spares, warranty, and annual maintenance contract. The purchase committee is looking for the most cost-effective solution for obtaining a new tool. Vendors are encouraged to propose all avenues, including but not limited to buy back of the existing tool, turnkey upgrade of existing tool or purchase of a new tool.

### **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 period of minimum period of 1 year (and additional 2 year should be given in optional item to 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, Bengaluru. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

### **G. Annual Maintenance Contract**

An annual maintenance contract for a period of at least 1 year post warranty should be provided on completion of warranty period.

### **H. Spares**

Vendors must provide a detailed list of spares and a user manual with a detailed Bill of Materials for all Parts. It should include the Spares Column with the Manufacturer part Number, and Qty. The vendor should guarantee availability of service and stocks for 7 Years.

### **I. Purchase Order**

1. The order will be placed on the bidder whose bid is accepted by IISc Bengaluru based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in tender is only indicative. IISc, Bengaluru 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, Bengaluru 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

## **J. Delivery, Installation and Training**

The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bengaluru from the date of receipt of purchase order. The system should be delivered, installed and made functional within 60 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, Bengaluru. After successful installation and inspection, the date of taking over of entire system by the IISc, Bengaluru 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.

## **K. Payment Terms**

For INR quotes, 100% payments (except AMC) 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 unless an equal amount of bank guarantee is provided. For INR quotes, the price must be on FOR- IISc Bangalore basis only.

For quotes in foreign currency, the quote must be on a CIP Bangalore basis. The payment terms for the foreign currency quotes should be mentioned along with the commercial offer.

AMC costs (if ordered after completion of the warranty period) will be released on a half-yearly basis at the end of each six months, subject to satisfactory services.

## **L. 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, Bengaluru 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, Bengaluru.

## **M. 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 Bengaluru, India.

## **N. 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. With prior intimation, the bidder may visit the installation site before tender submission.
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, Bengaluru.



## Section 4: Technical Specification

## (i) Specifications of High-Speed Camera

| Parameter                           | Specification  |
|-------------------------------------|--|
| Sensor Type                         | CMOS (Monochrome)  |
| Quantum efficiency                  | Greater than 60%   |
| Resolution                          | 4 MPix or greater  |
| Frame Rate                          | > 750 fps at full resolution<br>>2500 fps at 1MPix resolution<br>>2,00,000 fps at low resolution                 |
| Pixel size                          | <11 micro meter  |
| ISO Rating                          | Dynamic  |
| Suitable for low light imaging      |  |
| Dynamic Range                       | With in 50-70 dB   |
| Bit depth                           | 12 bit   |
| Shutter Type                        | Global shutter   |
| Minimum Exposure                    | ~ 1 micro second or less   |
| Internal Memory                     | 36 GB or More  |
| Memory multi segment                | 30 or more segments  |
| Data Interface                      | Ethernet (1 Gbs or more)   |
| Triggering Options                  | Programmable, hardware and software TTL triggering   |
| Lens Mount                          | F mount  |
| Software                            | Camera control and acquisition software required. Raw file analysis software for tracking and subpixel tracking. |
| Power Requirements                  | Indian standard  |
| Environmental Operating Temperature | 50 deg Celsius or more and suitable for scientific research  |
| Camera Mounting adapter             | Tripod mounting  |
| Warranty                            | Minimum of 1 year or more  |
| Local customer support              | Preferably in Bangalore or anywhere in India   |
| Sensor cooling                      | Yes  |

**(ii) Acceptance Test**

IISc will expect acceptance tests, post installation. These can be recorded in the presence of representatives of the OEM. Inability to pass these tests will be counted as technical failure and breach of contract.

| Sl. No | Required Specification                               | Compliance (Yes / No) | Remarks |
|--------|--|-----------------------|---------|
| 1      | Demonstration of 3D print with general resin         |                       |         |
| 2      | Demonstration of 3D print with high resolution resin |                       |         |

**(iii) Optional Items**

1. Professional Medium weight tripod suitable for the camera
2. Professional 3-way head (up to 7 kg load capacity)
3. Padded bag for medium weight tripod
4. Manual trigger switch
5. Additional 1 year warranty

**(iv) Installation, Training, Warranty and AMC**

1. Installation and Training: Installation of the high-speed camera, and subsequent demonstration by connecting it with existing upright microscope should be provided free of cost at the user site.
2. Warranty: The equipment under the scope of supply along with accessories shall have warranty against all types of defects for at least a period of 2 years from the date of successful installation of the equipment. Any defects in the equipment and the spares found in the warranty period shall be rectified/ replaced by the supplier at no extra cost.
3. AMC: Minimum 1 year of AMC for post warrantee / guarantee period all 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 technical preferences and financial constraints.

**(v) Other requirements specific to this purchase**

1. Vendors may provide the itemized cost for any suggested accessories/add-ons separately as “Additional Items” that may enhance the usability, capability, accuracy, or reliability of the system.
2. The vendor must have more than 5 years of history of manufacturing above stated equipment and selling it to industries and universities all around the world. Please provide list of customers who have

procured your equipment in last 5 years. The vendor must also have a distributor in India who should be well trained to operated and maintain this equipment.

3. The vendor should have a good track record of delivering the above stated equipment at universities/research institutions, preferably in centrally Funded Technical Institutes (IITs, IISc, IISERs, NITs) in India. Please provide the details and contact information.
4. The vendor must include references (End User Certificates) from 5 previous installations of the above stated equipment, preferably in India. Please provide names and contact addresses of the referees, so that the committee may contact them independently. Details of such systems with model numbers and users should be provided. The reference letters can be used to disqualify vendors with a poor track record of service, build quality, system performance, or poor availability of spares.
5. The vendor should have qualified technical service personnel for the equipment based in southern region of India (preferably in Bengaluru). Please furnish the details.
6. Authorisation letter from OEM manufacturer should be included.
7. All guaranteed specifications will have to be demonstrated, upon request during active installation. Failure to demonstrate any promised specifications will be deemed to be technically non-compliant.
8. The payment terms will be specified in the commercial proposal and is subject to negotiation.
9. The vendors quoting should be ideally registered with IISc, and the quote should ideally carry the vendor registration number in the technical proposal. Details of the vendor registration can be sought by sending an email to [sbasu@iisc.ac.in](mailto:sbasu@iisc.ac.in)
10. Upon submission of the Bid please inform by email to [sbasu@iisc.ac.in](mailto:sbasu@iisc.ac.in) with a copy to [chair.me@iisc.ac.in](mailto:chair.me@iisc.ac.in)

**Section 5 - Technical Bid**

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

**To,  
The Chairman  
Department of Mechanical Engineering  
Indian Institute of Science  
Bangalore 560012, India.  
Kind attention: Prof. Saptarshi Basu**

**Annexure 1: Details of the Bidder**

Details of the Bidder: The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

| Sr. No. | Type  | Details |
|---------|---|---------|
| 1.      | Name of the Bidder  |         |
| 2.      | Nature of Bidder (Attach 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.      | Contact person- Name and Designation  |         |
| 7.      | Telephone No  |         |
| 8.      | Email ID  |         |
| 9.      | Website   |         |
| 10.     | PAN No. (attach copy)   |         |
| 11.     | GST No. (attach copy)   |         |

(Signature of the Bidder)  
Name:  
Designation, Seal

Date:

**Annexure 2: Declaration regarding experience**

To,  
The Chairman  
Department of Mechanical Engineering  
Indian Institute of Science  
Bangalore 560012, India.  
Kind attention: Prof. Saptarshi Basu

Ref:

Dated:

Sub: Supply of High-Speed Camera

I have carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ----- years of experience in supplying. and installing high-speed camera.

(Signature of the Bidder)  
Name:  
Designation, Seal

Date:

**Annexure 3: Declaration of track record**

To,  
The Chairman  
Department of Mechanical Engineering  
Indian Institute of Science  
Bangalore 560012, India.  
Kind attention: Prof. Saptarshi Basu

Ref:

Dated:

Sub: Supply of High-Speed Camera

I have 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 am competent officer in my company / firm to make this declaration.

OR

I declare the following:

| Sr. No. | Country in which the company is debarred/ blacklisted / having pending case | Blacklisted / debarred by Government / Semi Government Organizations or Institutions / having pending case | Reason | Time Period |
|---------|---|--|--------|-------------|
|         |   |  |        |             |

(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).

(Signature of the Bidder)

Name:

Designation, Seal

Date:

**Annexure 4: Declaration of acceptance of terms and conditions**

To,  
The Chairman  
Department of Mechanical Engineering  
Indian Institute of Science  
Bangalore 560012, India.  
Kind attention: Prof. Saptarshi Basu

Ref:

Dated:

Sub: Supply of High-Speed Camera

I have carefully gone through the Terms & Conditions contained 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 am an authorized signatory of my company and am, therefore, competent to make this declaration.

(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, if applicable

**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. **Compliance Certificate:** 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 below:

Addressed to:

To,  
The Chairman  
Department of Mechanical Engineering  
Indian Institute of Science  
Bangalore 560012, India.  
Kind attention: Prof. Saptarshi Basu

Items requested in the mandatory specification section.

| S/N | Description   | Cat. Number | Quantity | Unit Price | Sub total |
|-----|---|-------------|----------|------------|-----------|
| 1   | Essential items noted in the technical specification        |             |          |            |           |
| 1.a | ... (details of essential items)                            |             |          |            |           |
| 1.b | ...   |             |          |            |           |
|     |   |             |          |            |           |
| 3   | Accessories for operation and installation                  |             |          |            |           |
| 4   | All Consumables, spares and software to be supplied locally |             |          |            |           |
| 5   | Warranty (2 years)  |             |          |            |           |
| 6   | AMC 2 years beyond warranty                                 |             |          |            |           |
| 7   | CIP/CIF IISc, Bengaluru                                     |             |          |            |           |

Items requested in the optional specification section.

| S.No | Description | Cat. Number | Quantity | Unit Price | Sub total |
|------|-------------|-------------|----------|------------|-----------|
|      |             |             |          |            |           |

# TENDER FOR HIGH-SPEED CAMERA

## Section 7: Checklist

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

The following items must be checked before the bid is submitted.

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

Technical bid (signed by the authorized signatory and sealed) with the below documents:

- a. Annexure 1: Bidders details
- b. Annexure 2: Declaration regarding experience
- c. Annexure 3: Declaration of track record
- d. Annexure 4: Declaration of acceptance of terms and conditions
- e. Annexure 5: Details of item quoted.

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

### 3. Sealed Envelope “B”: Commercial Bid

Your quotation must be submitted in two separate sealed envelopes: **Technical Bid (Envelope A) and Commercial Bid (Envelope B)** super scribing on both the envelopes with Tender details. These envelopes should be put in a bigger cover which should also be sealed and duly superscribed with Tender No., Tender Description and Due Date.