Local Tender Notice

Tender Notification Ref No.: IAP/2026-27

The Department of Instrumentation and Applied Physics, Indian Institute of Science, Bangalore, invites tenders for supply of **"Intensified Scientific CMOS Camera System Facility".**

Department of Instrumentation and Applied Physics
Indian Institute of Science (IISc), Bangalore, INDIA

November 05, 2026

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1. Bid schedule

1.	Tender Number	**IAP/2026-27**
2.	Tender Date	**05/11/2026**
3.	Item Description	**Intensified Scientific CMOS Camera System**
4.	Tender Type	Two bid system: (a)Technical Bid (Part A) (b) Commercial Bid (Part B)
5.	Place of tender submission	The Chair Department of Instrumentation and Applied Physics, Indian Institute of Science, Bengaluru 560012
6.	Last Date & Time for submission of tender	26th November 2026, on or before 1700 hrs
7	For further Clarification	Prof. Asokan S Department of Instrumentation and Applied Physics, Indian Institute of Science Bangalore, Karnataka – 560012, India Contact: Email: sasokan@iisc.ac.in

2. Eligibility Criteria

Prequalification criteria:

1. The Bidder should belong to either class 1 or class 2 supplier distinguished by their "local content" as defined by recent edits to GFR. They should mention clearly which class they belong to in the cover letter.
   a. Class 1 supplier: Goods and services should have local content of equal to or more than 50%.
   b. Class 2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.)
2. Purchase preference as defined by the recent edits to GFR (within the "margin of purchase preference") will be given to Class-1 supplier.
3. MSME can seek exemption to some qualification criteria. IISc follows GFR 2017 for such details
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. Quote should be submitted only by the Indian Original Equipment Manufacturer (OEM) or an Indian authorized distributor of the OEM.
7. The vendor should have a good track record of delivering such equipment at universities/research institutions (please furnish the details).
8. Please provide list of customers who have procured your equipment in last 5 years.
9. The vendor should be able to repair and maintain the equipment, once it is installed in India. No travel claims must be made by vendor for servicing during the warranty/guarantee period.
10. The system must be delivered at the earliest. The smallest lead time will be appreciated. Our expectation is shipment immediately after PO and full or part payment post installation.
11. On all systems the payment terms will be specified in the commercial proposal and is subject to negotiation.
12. The validity period of the quotation should be 90 days at least.
13. Please provide details of the number of trained personnel in India, who can service the machine.
14. Highlight the system requirement to integrate the setup, if any other than specified in the specifications above.
15. The supplier will provide comprehensive support to the user for the instrument for a minimum period of 3 years.
16. Bidder shall have to submit audited accounts (Balance sheet profit and loss account) of last three financial years. Audited statements must be signed and stamped by a qualified chartered accounted.
17. Bidder must submit Income Tax return for last three financial assessment years.
18. Bidder must submit up to date sales tax or GST clearance certificate.

Vendor Eligibility Criteria:

1. Sales Confirmation: The vendor company should provide comprehensive details regarding their **Intensified Scientific CMOS Camera System** in the last 5 years in India for multinational companies/PSUs/government organizations. The vendor should have sold the similar setup to at least 3 entities as depicted above in last 5 years in India. Furthermore, they must substantiate their claims by furnishing relevant supporting documents.

2. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.

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 proposal should contain a technical compliance table with 5 columns.

i. The first column must list the technical requirements, in the order that they are given in the technical requirement below.
ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible with technical details in annexure.
iii. 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.
iv. The fourth column should state the reasons/explanations/context for deviations, if any.
v. 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.

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 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.

4. The SEALED COVER superscripting tender number / due date & should reach Chair, Department of Instrumentation and Applied Physics, 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.

All queries are to be addressed to the person identified in "Section 1 – Bid Schedule" of the tender notice.

5. The price must be quoted in INR (Indian Rupee). Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. The quotations should be on **FOR-IISC, Bangalore** basis in INR only.

6. 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 thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.

7. Incomplete bids will be summarily rejected

8. The vendor should have qualified technical service personnel for the equipment based in India and should assure a response time of <48 hours.

9. The technical proposal must include references of at least 3 previous installations done in India within last 5 years of similar equipment from the equipment manufacturer. Please provide the names and contact addresses of the three independent referees, so that the committee can contact them independently to get reference. Please provide the installation report.

10. A technical evaluation by the purchase committee may include a demonstration to verify the functionalities and capabilities of the system quoted. The purchase committee 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. The quotation should be submitted on FOR-IISc Bangalore basis and in INR only, and all components and accessories 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.

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 at least **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 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 consider that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained. Further if the BIDDER is silent or does not give detail justification of their claim regarding those mentioned in technical specifications, IISc Bangalore reserves the full right to reject the tender due to non-compliance without any further discussion.

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 selected for installation, operation, preprocessing and post processing, optional items, recommended spares, warranty.

E) Pre-requisites:

The bidder will provide the prerequisite necessary for running the "**Intensified Scientific CMOS Camera System".**

F) Warranty:

The complete system is to be under warranty period of minimum 3 year 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:

An annual maintenance contract for a period of 2 years post warranty should be provided on completion of warranty period. If not possible, ample justification is needed.

H) 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 software and service provided is not found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

I) Delivery, Installation and Training:

1. The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order.

2. The system should be delivered, installed, and made functional **within 4 months** from the date of receipt of purchase order.

3. 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.

4. 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.

5. No partial shipment is allowed. The bidder should also arrange for technical training to the local facility technologists and users.

6. The bidder should provide onsite application training for the local facility technologists and users.

7. The bidder should also arrange technical training for the local facility technologists and users

J) Payment Terms:

100% payments will be released after completion of delivery and satisfactory installation subject to TDS as per rules. AMC cost (if ordered), after completion of warranty period will be released on half - yearly basis at the end of each six months subject to satisfactory services. The AMC will be comprehensive. Price basis must be on FOR-IISc Bangalore basis and in INR only. As per GFR, no advance payment can be made to domestic vendors unless an equal amount of bank guarantee is provided.

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 onto IISc, Bangalore.

L) 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.

M)General:

1. The entire component of the product must be OEM factory integrated; no bidder add-ons locally are to be included.
2. The vendor should have a local service support in Karnataka to cater to the service as and when required.
3. All queries should be answered within 24 hours, and service to be initiated within 48 hours.
4. User list with contact details: Vendor should provide a list of installations in India with all necessary contact details and model details so that IISc Bangalore can approach the contact person for any feedback. In the event of any doubt about the machine's capability, the vendor will be required to arrange a demonstration at any site, bearing the cost, including travel and other expenses, of a representative from IISc Bangalore.
5. One set of the operating manual and service manual, including detailed drawings and circuit diagrams (in English), must be supplied along with the instrument.
6. All amendments, time extensions, 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.
7. The bidder may furnish any additional information that is necessary to establish capabilities to complete the envisaged work. It is, however, advised not to furnish superfluous information.
8. The bidder may visit the installation site, if required, before submission of the tender, with prior intimation.
9. 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 work in IISc Bangalore.

4. Technical Specifications

The bidder shall supply, install, integrate, align, calibrate, demonstrate, and commission a complete "Intensified Scientific CMOS (ICMOS) camera system", including all standard accessories, triggering/synchronization electronics, control software, data-acquisition software, cables, power supplies, and other components required for complete and operational functionality.

1. Intensified Scientific CMOS Camera System

The bidder shall supply a scientific CMOS camera integrated with a high-speed image intensifier and digital delay generator, suitable for gated and time-resolved optical imaging.

Sl No.	Parameter	Minimum Required Specification
	Detector Specifications	
1	Camera Type	Intensified Scientific CMOS
2	Sensor type	Front-Illuminated
3	Sensor Format	≥ 2560 x 1440 pixels
4	Sensor Size	16.6 x 14.0 mm, 8 mm diagonal or larger
5	Pixel Size	6.5 μ m or similar
6	Digitization	12-bit and 16-bit
7	Full Frame Acquisition Rate	≥ 35 fps full frame
8	Read noise median [rms] @ 200 MHz & 560 MHz	2.6 (e-)
9	Dark current	≤ 0.18 e^-/pixel/s at specified operating temperature
10	Read out rate	≥ 500 kHz
11	Computer interface	USB 3.0 or higher
12	Internal memory	≥ 1 GB on-head/internal memory
	Triggering and DDG	
13	Minimum Optical Gate Width	≤ 2 ns
14	Gate-width and delay adjustment	Adjustable from 0 ns to 10 s in ≤10 ps steps
15	Gate/output jitter	35 ps RMS or better
16	Gate Monitoring	AC coupling from photocathode to monitor exact photocathode on/off switching and timings
17	Insertion delay	≤ 20 ns in direct-gate operation
	Intensifier Specifications	
18	Image Intensifier	Gen-2 or equivalent high-sensitivity image intensifier
19	Image Intensifier Diameter	≥18 mm
20	Intensifier input window	Quartz or equivalent high-transmission optical window
21	Wavelength Range	180 –850 nm
22	Minimum Optical Interframe	300 ns
23	Maximum Relative Gain	≥ 300
24	Peak quantum efficiency	≥ 22% at room temperature, or better
25	Image intensifier spatial resolution	≤ 25 μm
26	Thermoelectric cooling	Camera detector shall have TE cooling to approximately 0°C or better (No water chiller or LN cooling allowed)
27	External Trigger	Input/output 5V TTL triggering capability shall be provided
28	Trigger timing accuracy	≤ 10 ps setup accuracy or better
29	Photocathode Repetition rate	≥ 500 kHz
30	Equivalent Background Illuminance (EBI)	< 0.2 photo e-/pix/sec
31	Digital delay generator	Integrated digital delay generator shall be provided

32	**Computer interface**	**USB 3.0 or higher**
33	**Warranty**	**Minimum 3 year warranty for full system including intensifier, sensor and electronics**
34	**Software**	**Dedicated Windows-compatible data acquisition and camera-control software**
35	**Software package**	**Software for camera control, acquisition, image processing and data storage**
36	**Spectral response**	**Manufacturer shall provide quantum-efficiency curves as a function of wavelength**
37	**Accessories**	**All standard accessories required for safe and normal operation shall be included**
38	**Documentation**	**User manual, technical documentation, calibration/test certificate and safety documentation shall be supplied**
39	**Usable Image Dimension**	**Confirm whether the full specified sensor format is usable with the intensifier and coupling arrangement; if not indicate the usable image dimensions**

OTHER REQUIREMENTS

1. Offered Intensified Scientific CMOS detector should be a single integrated unit with all the above parameters.

2. Please specify the operating mode and intensifier/phosphor configuration used to achieve the 300 ns optical interframe specification, including any restrictions on gate width or image format.

3. Offered detector should work with 10Hz and 20Hz Nd:YAG nano second pulsed laser, detector should have capability to work with TTL trigger input and output signals. Vendors should be able to demonstrate synchronization of detector with above mentioned laser. Gate width, Delay and jitter parameters should be demonstrated and verified in customer' lab.

4. The image intensifier should be coupled to the sensor via fiber optics for maximum light coupling efficiency. Lens coupling method will not be acceptable.

5. Offered Intensified Scientific CMOS detector should work in Imaging and spectroscopy mode. Please provide installation certificates for both cases. Customers' contact details should be provided to verify the claim.

6. Vendor should offer a single WINDOWS-based software GUI with lifetime license.

7. Specifications offered should be published on OEM public website. Vendor should provide the URL link of product to verify the specifications.

8. 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.

Quotation should be enclosed with a compliance statement, List of users at least 20 installations and available performance certificates need to be enclosed. The vendors should have a service centre and staff available for promptly addressing any issues with maintenance during the service duration.

5. Technical Bid

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

The Chair,
Department of Instrumentation and Applied Physics
Indian Institute of Science, Bangalore – 560012

Annexure-1

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

Details of the Bidder

Sl. No	Items	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 Chair,
Department of Instrumentation and Applied Physics
Indian Institute of Science, Bangalore – 560012

Ref: Tender No: XXXXXXXXX Dated: XXXXX

Sub: Supply and installation of Intensified SCMOS Camera System

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has XXXXXX years of experience in **Intensified SCMOS Camera System.**

(Signature of the Bidder)

Printed Name

Designation, Seal Date:

Annexure-3

Declaration regarding track record

To,
The Chair,
Department of Instrumentation and Applied Physics
Indian Institute of Science, Bangalore – 560012

Ref: Tender No: XXXXXXX Dated: XXXXX

Sub: Supply and installation of Intensified SCMOS Camera System

Dear 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

(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:

Annexure-4

Declaration for acceptance of terms and conditions

To,
The Chair,
Department of Instrumentation and Applied Physics
Indian Institute of Science, Bangalore – 560012

Ref: Tender No: XXXXXXX Dated: XXXXX

Sub: Supply and installation of Intensified SCMOS Camera System

Dear 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:

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 technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

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				
1.a	… (details of essential items)				
1.b	…				
2.	Optional items noted in the technical specification				
2.a	… (details of Optional items)				
2.b	…				
3.	Accessories for operation and installation				
4.	All Consumables, spares and software to be supplied locally				
5.	Warranty (3 year)				
6.	AMC 2 years beyond warranty				

Any additional items

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

Addressed to

The Chair,
Department of Instrumentation and Applied Physics
Indian Institute of Science, Bangalore – 560012

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

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

2. Sealed Envelope "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.