

University of Kerala  
Kariavattom, Thiruvananthapuram, Kerala, India – 695 581

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Tender No.: Planning A1/BIOCHEM/ 01

Date: 20/12/2025

**E – TENDER NOTICE**

University of Kerala, Kariavattom invites open tenders through e-Procurement (in two bid system), from reputed manufacturers/authorized distributors/ Indian Agents for the purchase of the equipment “Live Cell Microscope” in the department of Biochemistry in connection with implementation of the research project titled “Live Neuron Microscopy Based Research to Understand Alzheimer’s Disease”.

Tender documents may be downloaded from Kerala E-Tender  
Website <https://etenders.kerala.gov.in/nicgep/app>

Tender Notification date	20/12/2025
Tender submission start date	20/12/2025
Last date of issuing tender document through <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>	19/01/2026
Last date of receiving e-tender through <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>	19/01/2026
Date of opening Technical Bid	22/01/2026
Date of opening Financial Bid	After Technical Evaluation
Earnest Money Deposit (EMD)	Rs 30,000/-
Tender Fee	Rs 4,500/-

Bids shall be submitted online only at Kerala E-Tender Website <https://etenders.kerala.gov.in/nicgep/app> using valid Digital Signature Certificate. Tenderer are advised to follow the instructions “Instructions to Bidder for Online Bid Submission”;

provided in the Annexure for online submission of bids available at Kerala E-Tender website:  
<https://etenders.kerala.gov.in/nicgep/ap>

Tender inviting authority : The Registrar, University of Kerala

For technical queries , contact : Dr Viji Vijayan , Assistant Professor , Department of Biochemistry , Univeristy of Kerala email : [vijivijayan@keralauniversity.ac.in](mailto:vijivijayan@keralauniversity.ac.in) .

### **Specifications of the Live Cell Microscope**

**Classification:** Inverted fluorescence microscope for multi-channel fluorescence and transmitted light (bright field and phase contrast) applications

**Illumination:** Digitally controlled LED light sources for transmitted & fluorescent light applications with greater durability ( $\geq 50,000$  hrs lifespan). Should include fluorescent LED light sources with hard coated bandpass optical filters for DAPI, GFP and RFP fluorophores. The illuminators should have independent intensity control and system should have motorized cube carriage to accommodate upto four fluorescent light channels. System should not require any dark room environment for fluorescence imaging

**Objectives:** Should have infinity corrected optics. Five Position objective turret. Long working distance objectives for 4X (Plan Fluorite, Phase), 10X (Plan Fluorite, Phase), 20X (Plan Fluorite, Phase), 40X (Plan Fluorite, Phase) magnification to be included Condenser: Should have brightfield and phase contrast annuli. Working distance 60 mm. Condenser should include a white light LED for transmitted light applications and suitable illumination source to enable high quality low noise color image acquisition on a monochrome sensor

**Stage:** Mechanical stage with X and Y axis fine-positioning controls and automated z- axis software controls; Travel range 120 mm  $\times$  80 mm with submicron resolution. Should be future upgradeable with onstage incubator for live cell imaging applications

**Camera:** Should be configured with high sensitivity monochrome CMOS camera  $\geq 3$  MP resolution and  $\geq 3$   $\mu\text{m}$  pixel size

**Display:** Should have a high resolution color LCD display  $\geq 18$  inch for image review and analysis  
**Interface & Storage:** USB interfaces, video output, Wi-Fi connectivity. Should have internal SSD memory, external USB memory, network storage capabilities

#### **Software features:**

Should have integrated software with intuitive GUI for operation. Captures publication quality images in JPEG/TIFF/PNG formats. Image enhancement tool, annotations, scale bar, histogram, image review etc. Single click for automatic multi-channel overlay. Autofocus in both brightfield and fluorescence modes. Stage tracking intelligence feature for tracking stage location of the manual stage in real time, marking points of interest, saving and returning back to them. Automated cell counting and confluence measurement tools. It should have features for time lapse imaging and creating videos in AVI formats. Z-stacking feature to capture a series of images along the Z-axis that can be saved individually or combined into a Z-stack projection with a greater depth of field.

**Dimension:** Compact benchtop system which can be accommodated into a standard cell culture hood

**Vessel Holders:** Universal vessel holder, vessel holder for glass slides, vessel holder for T-25 flasks should be included with the imager. Other vessel holders should be optionally available

#### **Warranty & Service**

Manufacturer's warranty: Minimum 36 months on instrument and components (including camera and LED light cubes) from date of commissioning is mandatory. Extended warranty options for 3–5 years to be quoted.

**Service Response:** Local service partner with maximum response time 48 hours for on-site support during warranty period. Provide service escalation matrix and spare parts availability.

**Preventive maintenance:** Annual preventive maintenance visit

#### **Vendor Qualifications & Compliance**

Vendor must be an authorized distributor or reseller in the country and provide proof of authorization. Provide at least three institutional references (local universities / institutes) where the same model is installed with proof of publications

Local service in Kerala – contact details of the office to be provided

Compliance with local safety and electrical standards; provide CE / ISI or equivalent certificates where applicable.

## **Terms and Conditions**

- 1.** Quantities can be increased or decreased by purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document. Purchase of optional items will be finalized at the time of financial evaluation. However, the bidder must quote the optional items. The bidder should quote all items; partial quote will not be accepted.
- 2.** Original Equipment Manufacturer (OEM) Certificate/ Undertaking: If the bidder is not an OEM, Certificate of authorized dealership/ distributorship from the OEM for technical support to the bidder and supply of spares shall be furnished.
- 3.** Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
- 4.** Commercial bids of short-listed vendors will only be opened. Please note that the Vendor(s) who do not qualify in the technical bid will not be considered for commercial bid.
- 5.** The bidder must not sub-contract the work to other providers.
- 6.** The prices quoted must be on “all-inclusive till destination” basis. The prices quoted should be inclusive of all Taxes, Insurance, Freight, Packing & Forwarding Charges, Handling, Delivery Charges, installation charges etc.
- 7.** Payment terms: Payment against delivery and successful installation of the equipment in the department.
- 8.** The configuration given is the minimum configuration that is/are required. Vendors may choose to supply higher/better/ enhanced systems/peripherals, but their financial quotes shall be treated as if they have been offered for the specified configuration only.
- 9.** The Bidder shall bear all the costs associated with the preparation of the documents, submission of its bid and we will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- 10.** The bid shall be typed and shall be signed by the bidder or a person duly authorized to bind the bidder to the contract.

**11.** The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder. In such case the person or persons signing the bid shall initial such corrections.

**12.** The bidder is expected to examine all instructions, forms, terms, condition, and technical specifications in the tender Documents. Failure to furnish all information required by the tender Documents or submission of a bid not substantially responsive may result in the rejection of its bid.

**13.** The bidders shall give undertaking that all the Components used in the equipment shall be original make as per the technical specifications submitted and the hardware/software shall be supplied with the authorized license certificates, if found contrary the supplier shall replace the component/equipment with original one at their own cost.

**14.** Validity of tender: Tender submitted shall remain valid at least for 90 days from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.

**15.** Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation should be made at the Department of Biochemistry, University of Kerala, Kariavattom Campus Trivandrum - 695581, without any extra cost. Complete installation, testing and demonstration of the system and day to-day maintenance are to be provided at site (inclusive of documentation, demurrage, customs duty, clearance and transportation charges). University of Kerala will provide customs duty exemption certificates if required.

**16.** The Supply and installation of items must be made within four weeks from the date of issue of supply order. Delay in supply will lead to penalty @ 1% of the value of tender for every week of delay or part thereof. (i.e. exceeding three days will be calculated as one week). If it is found that the items so supplied are not as per supply order specifications, the supply made will be rejected and Earnest Money Deposit will be forfeited.

**17.** For those bidders submitting tenders for more than one instrument, separate applications for each instrument must be placed in individual sealed envelopes. Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in a single tender it will be summarily rejected.

**18.** In case of any dispute, the decision of the University authority shall be final and binding on the bidders. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

**Documents to be uploaded:**

1. Signed Compliance Matrix
2. Detailed Technical Brochure
3. BoQ
4. Detailed Financial Bid in pdf format

**Registrar**