

UNIVERSITY OF KERALA

Thiruvananthapuram, Kerala, India – 695034

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala State Legislative Assembly)
(Re-accredited by NAAC with 'A++' Grade)

25901/Ad BIV A/2025/UOK

28.05.2025

E-TENDER NOTICE

Competitive e-Tenders (two cover system) are invited through e- procurement portal (<https://www.etenders.kerala.gov.in>) of Government of Kerala from the Original Equipment Manufacturers or their Authorized Dealers / Indian Agents for the supply, installation and commissioning of Gel Imaging System (1 No) under the project entitled "Upgradation of BSL I & II facility in the Department of Botany, University of Kerala, Kariavattom".

The tender form can be downloaded from : www.etender.kerala.gov.in.

Bid submission start date	28.05.2025
Last date and time for submission of tender online	12.06.2025 05.00 PM
Date and time of opening of Technical bid	16.06.2025 10.30 AM
Date and time of opening of financial bid	After technical bid evaluation
For further details contact	Dr. E.A. Siril Professor and Head, Department of Botany University of Kerala, Kariavattom, Thiruvananthapuram, Kerala, India Mobile +919447260101 email: easiril@yahoo.com

The cost of tender form and EMD prescribed above should be remitted online through www.etender.kerala.gov.in. The cost of tender form will not be refunded.

TECHNICAL SPECIFICATION

1. System should support wide range of applications like Fluorescence, Colorimetry/densitometry and Gel documentation.
2. The Gel Imaging System should support dyes such as; SYBR Green, SYBR Safe, Ethidium Bromide, Stain Free Gel, Coomassie Blue, Zinc Stain, Flamingo,



Oriole, Silver Stain, Coomassie Fluor Orange, Sypro Ruby, Krypton & Colorimetric Blots.

3. System should have touch screen display of size 9.7 inches or better which should be Multi touch capable and should offer a display resolution of 1024 x 768 pixels.
4. System should offer a Smart Tray Technology that automatically recognizes the application specific tray, should adjust imaging parameters and software options accordingly
5. System should offer a precalibrated focus for any zoom setting or sample height.
6. System should have a high-resolution scientific grade 16 bit CMOS camera, a light-tight compact darkroom & a Slide-Out UV-Transilluminator.
7. System should offer a camera resolution greater than 6.3 megapixels and carry a pixel size of 2.4 μ m x 2.4 μ m.
8. Camera should have a maximum image area of 21 x 14 cm (W x H), Pixel density of 65535 gray levels, a dynamic range of greater than 3.5 orders of magnitude, an Emission filter range of 535–645 nm and data output of 6-bit or 8-bit with .SCN, .TIFF, .JPEG image files
9. The Gel Placement door should be drawer type allowing access to Gels from either direction for facilitating easy/clutter free gel excision applications.
10. System should offer Trans-UV (B) and Epi White as Standard Illumination. White Light Trans Illumination and UV/Blue Conversion should be available as optional.
11. Appropriate flat fielding correction should be automatically and consistently applied to image data for every application.
12. System should have stain-free image capturing technology for stain-free gels and blots.
13. White Sample tray should be supplied along with the equipment.
14. Compatible software for Image Capturing and Analysis with free user license, possible to run in all types of computer and lifetime free upgrades and firmware should be supplied along with the equipment.
15. The software should have the capability for Automated lane and band identification, molecular weight or base pairs evaluation, band sizing, and quantitation based on a reference band or quantity standards Snapshot tool to copy images, lane profiles, and graphs.
16. The Software should produce customizable reports with data organized as desired, including, Lane and band identification, molecular weight or base pair evaluation. Band sizing and quantification are based on a reference band or quantity standards.
17. The software should allow Publishing resolution (dpi) and publishing dimension to be specified with a one-click image export for publication. Should provide functionality to produce image at user-defined dpi and dimension.
18. The software should have a one-click export option for 16-bit and 8-bit tiff images,



should offer live update of results with any change of analysis parameters, should have options Local/Global background subtraction for individual bands

19. The software should have tools for compliance with U.S. FDA 21 CFR Part 11 regulations.
20. Bidder should quote for running models and custom-built models will not be considered.
21. The equipment should comply with universal standard safety measures of CE certified (attach documents).
22. Warranty not less than 3 years should be given from the date of successful installation at the Department of Botany, University of Kerala, Kariavattom.

TERMS AND CONDITIONS

1. Every tenderer should submit a **Tender fee of Rs. 1,416/-** (Rupees One Thousand Four Hundred and Sixteen Only) (₹ 1200/- + ₹ 216/- (GST)). **GST payment shall be made by the firm and the receipt shall be attached.**
2. Every tenderer should submit an **Earnest Money Deposit (EMD) of Rs.6,000/- via online**
3. **Performance Security:** If work is awarded, a Performance security equal to 5% of contract value shall be furnished by the bidder. The Performance Security will be forfeited, if the firm fails to abide the terms and conditions of the tender and subsequent execution of the work/ warranty liability. It will be released on successful completion of work and general warranty period of 03 years.
4. All the MSMEs with Udyog Aadhar registration or any other body specified by the Ministry of Micro, Small and Medium Enterprises working within the state of Kerala will be exempted from the payment of Tender fee and Earnest Money Deposit. Others not having MSME with Udyog Aadhar registration should send along with his tender, a tender fee of Rs.1416/- and an earnest money of Rs.6000/-. Attested copy of registration certificate may be enclosed with the tender for reference.
5. Quantities can be increased or decreased by the purchaser and the bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document. The 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; a partial quote will not be accepted.
6. Original Equipment Manufacturer (OEM) Certificate/Undertaking: If the bidder is not an OEM, a Certificate of authorized dealership / distributorship from the OEM for technical support to the bidder and supply of spares shall be furnished.
7. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
8. The tender shall be submitted in the two bid viz. Technical Bid and Financial Bid. Financial 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.
9. The bidder must not subcontract the work to other providers.
10. 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.

11. Payment terms: Payment against delivery and successful installation of the equipment in the department.
12. 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.
13. **Catalogue of the quoted instrument and images is mandatory.**
14. **Only one model can be quoted in a tender.**
15. The Bidder shall bear all the costs associated with the preparation of the documents, and 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.
16. The bid shall be typed and shall be signed by the bidder or a person duly authorized to bind the bidder to the contract.
17. 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.
18. 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.
19. The bidders shall give an undertaking that all the Components used in the equipment shall be originally made 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.
20. Validity of tender: The 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.
21. Delivery and installation: The proposed delivery schedule should be mentioned clearly. **Delivery and installation should be made at the Department of Botany, 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.
22. The Supply and installation of items must be made within four weeks from the date of issue of the supply order. Delay in supply will lead to a 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. For those bidders submitting tenders for more than one instrument, separate applications for each instrument must be placed in



individual sealed envelopes. Full payments will be made only after satisfactory completion of the supply and installation of the items at the Department.

23. **Compliance Statement:** Along with the technical details provide a tabular column indicating whether the equipment quoted by you meets the specifications by indicating 'YES' or 'NO'. If 'YES', support the claim by providing original brochures
24. **Warranty/Guarantee:** The supplier shall guarantee to repair/replace the items or its part - if found defective within the **warranty period of 03 years**. The entire expenditure for repair/replacement of the item in this regard shall be borne by the supplier. The service provider should be available within 24 hours and preferably in Kerala.
25. **Service facility:** Supplier should mention their details of service setup and manpower **in Kerala, especially at Trivandrum** who are responsible for after-sales service. Service support undertaking should be furnished.
26. **Performance Certificate:** A performance certificate and installation certificate (with names of Institutes, contact person and telephone/ email) from a minimum 5 esteemed customers where the same equipment (quoted model) supplied by you in India [Preferably South India] should be submitted along with tender documents.
27. If requested by the technical committee, the selected bidders should perform **an offline demo of the quoted model at the Department of Botany**, University of Kerala, Kariavattom Campus.
28. Other special conditions: Defective items, if any, supplied should be rectified/ replaced to the satisfaction of the University by the suppliers at their own cost. **Detailed Financial bid should be separately submitted. (in pdf format).**
29. For Further details, **Contact Dr. E.A. Siril, Professor and Head, Department of Botany, University of Kerala, Kariavattom Campus**, Thiruvananthapuram 695581, Kerala, India, Mobile-+919447260101
30. 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.
5. GST payment receipt

Prof. (Dr.) K S Anil Kumar

Registrar



