

## Department Biochemistry, University of Kerala

Kariavattom, Thiruvananthapuram, Kerala, India – 695 581

26/10/2021

### E-Tender Notice

Department of Biochemistry, 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 **an imaging system for chemiluminescent western blot, fluorescent western blot and combined fluorescent and chemiluminescent western blots, colorimetric and/ fluorescent stained protein gels with analysis software and computer.**

Last date and time for submission of tender online	<b>25/11/2021: 5 PM</b>
Date and time of opening of Technical bid	<b>30/11/2021: 11AM</b>
Date and time of opening of Financial bid	After technical Evaluation.
For technical details contact	Dr. A. Helen Professor and Head Department of Biochemistry Phone :0471-2308078 Email : biochemistrykariavattom @gmail.com

## TECHNICAL SPECIFICATIONS

No	Items	Technical Specifications
1	<p>Imaging system with analysis software and computer –</p> <p>For chemiluminescent western blot, fluorescent western blot and combined fluorescent and chemiluminescent western blots, colorimetric and/ fluorescent stained protein gels</p>	<p><b><u>Imaging System</u></b></p> <p>The imaging system/instrument should be equipped with a sturdy darkroom</p> <p>The instrument should be a versatile and easy to use documentation system for Protein, DNA and blotting and Chemiluminescence applications</p> <p>The equipment should give chemiluminescence images without films</p> <p>System should have very good image resolution with an effective resolution for resolving and comprehending the closely spaced bands on a gel or immunoblot.</p> <p>Instrument should have a sufficiently large transillumination area</p> <p>System should have the technology to remove imaging artifacts that are brought about by positional biasedness of camera &amp; transilluminator.</p> <p>System should have Trans UV light for DNA application, UV to White light Conversion screen for Protein Application.</p> <p>Epi White LEDs for positioning of Gels and Blots.</p> <p>The instrument should have a motorised Zoom lens</p> <p>The instrument should have motorised filter wheel.</p> <p>Instrument should have 16-bit CCD with more than 4 Megapixel image resolution.</p> <p>Instrument should have auto focus technology that is system should automatically take the best focus depending on any zoom level without the movement of sample platform.</p> <p>Pixel size should be 6.45 <math>\mu\text{m}</math> x 6.45 <math>\mu\text{m}</math> or bigger.</p> <p>System should offer various binning options with minimum of 2x2, 3x3 and 4x4 for customized sensitivity.</p>

		<p><b><u>Analysis Software</u></b></p> <p>System should come with software for the control and image capture and analysis.</p> <p>Software should be application driven. The Software should automatically select the appropriate filters, light sources, and camera settings for all applications. The user only needs to tell which application they are using along with their gel or blot size and the software should automatically configure the system for that application.</p> <p>Fully automated software, User should be able to save and recall their own protocol.</p> <p>Analysis software should automatically detect lanes and bands and easily add molecular weight ladder.</p> <p>Software should do 1D analysis, Molecular weight calculation and Quantification</p> <p>For Chemi Application software should have feature of 2x2,3x3,4x4,5x5 and 6x6 binning to increase the sensitivity.</p> <p>Software should have feature of automatically overlaying colorimetric molecular weight marker on chemiluminescent image.</p> <p>Analysis software should be multiuser licensed should be able to load on unlimited number of PC/Laptops. Software should have 16-bit and 8-bit tiff images with a one-click export option.</p> <p>Software should Create cluster analysis diagrams</p> <p>Should do RFLP, RAPD and Fingerprinting Analysis</p> <p>Suitable PC should be provided with the system.</p> <p>The software should be capable of generating images of user defined resolution</p> <p>The system with software should have 3 year warranty</p>
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### **Terms and Conditions**

1. Every tenderer should submit Tender fee of **Rs. 2,500/-**.
2. Every tenderer should submit Earnest Money Deposit (EMD) of **Rs.10,000/-**.
3. 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.

4. **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.
5. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
6. 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.
7. The bidder must not sub-contract the work to other providers.
8. 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.
9. **Payment terms:** Payment against delivery and successful installation of the equipment in the department.
10. 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.
11. 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.
12. The bid shall be typed and shall be signed by the bidder or a person duly authorized to bind the bidder to the contract.
13. 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.
14. 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.
15. 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.

16. 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.
17. Delivery and installation: Proposed delivery schedule should be mentioned clearly. **Delivery and installation should be made at 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.** 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.
18. Warranty period will start from the date of successful installation of all the items at site.
19. Service facility: Supplier should mention their details of service setup and manpower in Trivandrum who are responsible for after sales support.
20. 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**