

**UNIVERSITY OF JAMMU**  
**SCHOOL OF BIOTECHNOLOGY, UNIVERSITY OF JAMMU-180006**

School of Biotechnology, University of Jammu, Jammu & Kashmir is interested in the purchase of **CHEMILUMINESCENCE BASED GEL IMAGING** as per specifications given in the Annexure 1. The Department invites sealed bids / tenders bids from reputed Manufacturers or their Authorized Distributors / Dealers for Supply, Installation and Training of **CHEMILUMINESCENCE BASED GEL IMAGING**. Interested parties may submit their sealed bids online as per Technical Specifications given at Annexure 1 and General Terms & Conditions given at Annexure II. The tender will be published online on <https://jktenders.gov.in>. The TECHNICAL BID and PRICE BID has to be submitted online before the due date i.e. 26<sup>th</sup> February 2020 Whereas hard copy of the TECHNICAL BID along with EMD has to reach to the office of the Director, School of Biotechnology, University of Jammu, Jammu 180006 before the due date in a sealed envelope (duly superscripted with Tender No. and date).

For any query pertaining to this tender contact Professor Jyoti Vakhlu, School of Biotechnology University of Jammu, Jammu 180006.

The technical bid will be evaluated first and price bid will be opened only in respect of those Vendors, who are found technically qualified after evaluation of Technical Bid. The Technical bid will be opened on 28<sup>th</sup> February 2020 in the School of Biotechnology, University of Jammu, Jammu - 180006

Director  
School of Biotechnology,  
University of Jammu, Jammu - 180006

Ref. No. JU/SBT/2020/1860  
Dated: 29-01-2020

## Annexure-I

Item No	Equipment	Quantity	Technical Specification
1	<b><u>CHEMILUMINESCENCE BASED GEL IMAGING</u></b>	3	<p><b><u>THESE ARE THE MINIMUM SPECIFICATIONS, EQUIPMENTS WITH BETTER SPECIFICATIONS WOULD ALSO BE CONSIDERED.</u></b></p> <ul style="list-style-type: none"> <li>• Should include: darkroom UV trans illuminator, epi-white illumination, camera, White light conversion tray, cables, 1D image analysis software</li> <li>• Applications: Calorimetry/densitometry, chemiluminescence/western blots, Imaging and analysis of DNA/RNA bands.</li> <li>• System should be provided with filter for detection of colorimetric protein stains (silver, coomassie) and fluorescent nucleic acid gel stains (e.g., ethidium bromide), Quantum dots, Nano orange, FITC, Sybr gold, Oligreen, Pico green SYPRO Orange.</li> <li>• Excitation source - Trans-UV and epi-white are standard (302 nm included)</li> <li>• Maximum image area - (For standard UV-excited gels) 25 x 26 cm or more</li> <li>• Detector ó Supercooled CCD</li> <li>• Pixel size (H x V): 6.45 x 6.45 µm or bigger</li> <li>• Image Resolution: 4 Megapixels or more</li> <li>• Cooling system: Peltier</li> <li>• Camera cooling temperature: -30°C controlled or better</li> <li>• Filter selector: minimum 3 positions (2 for filters, 1 without filter for chemiluminescence)</li> <li>• Auto focus: Precalibrated focus for any zoom setting or sample height</li> <li>• Should have Image flat fielding: Dynamic; pre-calibrated and optimized per application to provide image data which should be accurate, reproducible and free of imaging artifacts.</li> <li>• Autoexposure: at least 2 user-defined modes (intense or faint bands).</li> </ul>

			<ul style="list-style-type: none"> <li>• System should have the capability to automatically capture a series of images using preset or user defined exposure times.</li> <li>• Operating voltage: 230 V</li> <li>• Operating temperature: less than or equal to 10635°C or more</li> <li>• Have Signal accumulation mode: to monitor band intensity from 1 sec to 999 sec and should be able to save more than 25 images at user defined intervals.</li> <li>• The imaging system must be capable of imaging stain free protein gels &amp; stain free blots without the need of staining/de-staining post running the gels.</li> <li>• Each system should be supplied with 1 KVA UPS with at least 60 mins back up</li> <li>• Each system should be supplied with at least 3 USB &amp; 1 Network Port</li> <li>• Accessories: Each system should be supplied with at least 100 stain free precast gels, (2) ECL Femto plus substrate, (2) PVDF membrane and (2) Blocker.</li> </ul> <p><b><i>System Software</i></b></p> <ul style="list-style-type: none"> <li>• Suitable standalone computer (RAM size- 16GB, total capacity- 1TB, intel core i7) &amp; software accessories should be provided with each machine, for data storage and archival.</li> <li>• Single dedicated software for image capture and analysis of Gels and proteins should be provided.</li> <li>• Software should have highest level of automation in hardware calibration, image optimization, capture, and analysis.</li> <li>• Automatically identify consistent and accurate lanes and bands</li> <li>• Should have molecular weight overlay feature to allow a colorimetric molecular weight marker lane to be overlaid onto a chemiluminescent image for molecular weight determination without compromising the underlying chemiluminescent densitometry data.</li> <li>• Analysis reports should be directly</li> </ul>
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			<p>exported to Microsoft Word, Excel, PowerPoint, and PDF formats.</p> <ul style="list-style-type: none"> <li>• Should have the flexibility to specify the Publishing resolution (dpi) and publishing dimensions with one-click image export for publication.</li> <li>• Analysis software should be an open platform to accept standard image file types (i.e., TIFF, JPEG, PNG, GIF, dpi, BMP files).</li> </ul> <p><b>Support and training:</b></p> <ul style="list-style-type: none"> <li>• Ability to support, diagnosis and troubleshooting through Remote Access feature.</li> <li>• Installation and training to users should be given at our laboratory by a trained application engineer.</li> </ul> <p><b>Terms and Conditions:-</b></p> <ul style="list-style-type: none"> <li>• Copy of the items including relevant accessories with technical specifications should be mentioned in detail. With original catalogue</li> <li>• List of such 5 users with contact numbers of faculty in-charge and copy of their installation report should be enclosed.</li> <li>• Latest publications in reputed journal should also be enclosed</li> <li>• Warranty should at least be for 5 years after installation</li> <li>• Components and spare parts should be made available for at least 10 years or more.</li> <li>• The system should be quoted F.O.R. Jammu University, Jammu.</li> <li>• All custom clearance and transportation should be borne by the company.</li> </ul>
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## Annexure-II

### **General terms and conditions**

1. Rates should be F.O.R. Jammu University Campus.
2. In case of foreign manufacturer kindly quote F.O.R Jammu University Campus in foreign currency. Also quote tentative charges for custom Duty, Clearance charges and Transportation and Insurance up to Jammu separately.
3. Goods must conform to our indicated specifications. Detailed technical and other specifications / literature must be enclosed.
4. Indicate concessional rates of tax for educational institutions. The GST rates must be clearly mentioned separately.
5. The submission of the tenders will be online. The Technical Bid and Price bid has to be submitted online on [www.jktenders.gov.in](http://www.jktenders.gov.in). Whereas the hard copy along with EMD has to be submitted offline on or before due date in a sealed envelope.
6. Earnest Money Deposit (EMD) 2% of estimated price to be submitted along with commercial bid. Bids without EMD will be rejected.
7. The warranty of the product should be at least five Year.
8. The rates should be valid for 120 days. Both technical bid and the commercial bid addressed to undersigned and duly sealed /signed and tapped with official stamp should reach this office latest by 26<sup>th</sup> February 2020.
9. Bidder should submit Purchase orders and / user List as a proof of the dealing with other Government organizations / Institutions. The date of the supply order should be within last Three years from the date of publishing the BID.
10. Bidder should submit Valid Authorization Certificate from OEM for each against this NIT.
11. The firm/bidders should provide non blacklisting certificate mentioning it should not have criminal records/cases/activities.
12. The bidder's firm should be established since last 5 years Documentary Evidence to be submitted along technical BID.
13. The bidder should have enough strength of people for the after sales support with their branch offices near to Jammu. The details of Service Centre and Office addresses along with Service personnel need to be shared for the verifications.
14. Self-attested copies of GST and PAN card and Firm registration certificates to be submitted.
15. The bidder should have ISO or equivalent quality Certification.
16. The delivery, installation and operational training of the instruments/equipment should be completed within 45 days from placing of the order failing which the bank guaranty shall be retained by the Department.
17. The successful Bidder must provide Bank Guarantee/Performance Guarantee equivalent to 10% of the cost of equipment to the Value of Order from Nationalized or Scheduled bank.
18. All Documents submitted in technical BID should be self-Attested (Signed and Stamped).