

**INTER UNIVERSITY CENTRE FOR GENOMICS
AND GENE TECHNOLOGY (IUCGGT)**

University of Kerala, Kariavattom,
Thiruvananthapuram, Kerala 695 581

CGGT/KU/203/2023

Date: 24.01. 2023

Sealed quotations are invited from the reputed firms/ manufactures/distributors for the supply of **GEL DOCUMENTATION/IMAGING SYSTEM** with relevant specifications on or before 07.02.2023. Sealed quotations should be addressed to **The Hon. Director, Inter University Centre for Genomics and Gene Technology (IUCGGT), Department of Biotechnology, University of Kerala, Thiruvananthapuram - 695581** with superscription "**Quotation for the supply of GEL DOCUMENTATION/IMAGING SYSTEM**". The quotation will be opened on 07.02.2023 at 11 AM.

SPECIFICATIONS FOR GEL DOCUMENTATION/IMAGING SYSTEM:

1. Versatile system to support wide range of applications like Fluorescence, Colorimetry/densitometry & Gel documentation.
2. The Gel Imaging System should support the following dyes - 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. The Gel Imaging System should feature touch screen of size 9.7" or more which is Multitouch capable & offer a Display resolution of 1,024 x 768 pixels.
4. The Gel Imaging System should offer Smart Tray Technology that automatically recognizes your application-specific tray and adjust imaging parameters and software options accordingly
5. The Gel Imaging System should offer precalibrated focus for any zoom setting or sample height.
6. The Gel Imaging System should have a high-resolution scientific grade 16 bit CMOS camera, a light-tight compact darkroom & a Slide-Out UV Transilluminator.
7. Maximum image area - 21 x 14 cm (W x H)
8. Pixel density (gray levels) - 65535
9. Dynamic range - >3.5 orders of magnitude
10. Emission filter -535-645 nm
11. Data output -16-bit or 8-bit: SCN, TIFF, JPEG image files
12. The Gel Placement door should be drawer type allowing access to Gels from either direction for facilitating easy/clutter free gel excision applications.
13. The Imaging System should offer a camera resolution greater than 6.3 megapixels & carry a pixel size of 2.4 μm x 2.4 μm
14. The Instrument should offer Trans-UV (B) and Epi White as Standard Illumination. White Light Trans Illumination and UV/Blue Conversion should be available as optional.
15. Appropriate flat fielding correction should be automatically and consistently applied to image data for every application.

Specifications of the Image Analysis Software:

1. Automated lane and band identification, molecular weight or base pairs evaluation, band sizing, and quantitation based on a reference band or quantity standards
2. Snapshot tool to copy images, lane profiles, and graphs
3. Allow Publishing resolution (dpi) and publishing dimension to be specified with a one-click image export for publication. Provides functionality to produce image at user-defined dpi and dimension

No requirement of license for registration. The full version software should be installable in large number of computers. Lifetime free upgrades of Software & Firmware should be available.

5. Mac and PC compatible software
6. 16-bit and 8-bit tiff images with a one-click export option
7. 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.
8. Software should offer live update of results with any change of analysis parameters.
9. Local/Global background subtraction for individual bands
10. Tools for compliance with U.S. FDA 21 CFR Part 11 regulations.

Terms and conditions

1. The prices quoted should be that applicable for educational institutions
2. The firm should extend service within 24 hours.
3. Prices are to be quoted FOR DESTINATION (IUCGGT, Department of Biotechnology, University of Kerala, Kariavattom). The prices quoted should clearly indicate the 4 following charges: Price of the equipment including taxes; Price of optional accessories if any; Customs duty if any (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges etc. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
4. Performance Certificate of the specified model should be attached along with the quotations.
5. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.
6. If any of the components is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost.
7. Supplier authorization letter and specification compliance sheet to be provided along with the quotation.
8. Quotations should also include all the supportive work for installation, loading and unloading of the equipment.
9. The interested bidders shall submit their best possible offer before last date to the undersigned.
10. Should be a certified company which has provided at least 5 installations of products within or outside India
11. The rate quoted shall be valid for a period of one year.



Hon. Director
IUCGGT



Dr. R. RAJALAKSHMI
Hon. Director
Inter University Centre for Genomics &
Gene Technology, Dept. of Biotechnology
University of Kerala