Indian Institute of Technology Kanpur
Department of Biological Sciences & Bioengineering

Enquiry No.: IITK/JGR-5620/2016-17/01
Dated: 7th December, 2016
Closing Date: 14th December, 2016

Enquiry for Chemidocumentation System

We would like to purchase a Chemi Gel doc system for sensitive, multimode image capture and analysis via an intuitive touchscreen interface and advanced software for analyzing chemiluminescent western blots, nucleic acid blots, EtBr, Syprorange, coomassie, silver stained gels for our laboratory. Offered product should take into account specifications, given below:-

EQUIPMENT: **Chemidoc System**

SPECIFICATIONS: Required specifications are as under:-

Hardware:

- Should have high resolution camera with 4 mega pixel or more/greater resolution, 16-bit CCD Camera, motorized fixed lens.
- There should be at least 4 position motorized filter wheel
- System should be provide with filter for detection of colorimetric protein stains (silver, coomassie) and fluorescent nucleic acid gel stains (e.g., ethidium bromide) and protein stains, such as SYPRO Orange.
- Should have Field of view of 15x15 cm.
- Illumination source 306nm trans UV, Epiwhite, Should have large 10.4 inch touchscreen display with an integrated computer with >200GB hard drive. To operate the touchscreen interface, a stylus should be provided along with the system.
- The Exposure time should be from 10 milliseconds to 99 minutes.
- should create dark and bias master files to compensate for noise coming from the CCD camera during image acquisition
- Should automatically calculate the exposure time of a Western blot with maximum dynamic range and minimal pixel saturation from a short, 15-second exposure image.
- Should automatically take a corresponding visible image with every chemiluminescent image exposure.
- System should have the capability to automatically capture a series of images using preset or user defined exposure times.
- At least 3 USB & 1 Network Port

Software:

- Should have at least 5 user licenses included with the instrument.
- 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.
- Automatically identify consistent and accurate lanes and bands
- Analysis reports should be directly exported to Microsoft Word, Excel, PowerPoint, and PDF formats
- Software should be able to do contrast adjustment, rotate, cropping, zoom etc and Text Annotation option should also be there.

- The Software should have the capability for quantity calculation such as Densitometry, and determine the Rf and Molecular Weight of protein or Nucleic Acid Bands using Installed or Custom MW Markers, calculate sample purity automatically and should be able to calculate the Relative and Absolute quantity.
- Analysis software should be an open platform to accept standard image file types (i.e., TIFF, JPEG, PNG, GIF, BMP files).
- Suitable standalone computer & software accessories should be provide, for data storage and archival.

Support:

1. Ability to support, diagnosis and troubleshooting through Remote Access feature

Terms and Conditions:-

1. Copy of the items including relevant accessories with technical specifications should be mentioned in detail.
2. Prices should include delivery up to IIT Kanpur.
3. Warranty should at least be for 3 (three) years after installation.
4. Validity of quotation should be at least for 90 days.
5. Delivery period should be within 30 days from the date of purchase order.
6. Technical and financial bids should be sent separately in sealed covers.
7. Proprietary Certificate should be included, if relevant.
8. Send the detailed quotation along with your authorized dealer certificate to the address, given below within one week of this advertisement.

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