

# CENTRAL INSTITUTE FOR COTTON RESEARCH

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{Location; Near Indian Oil Depot, Panjari, Wardha Road, Nagpur - 441 108.}

F.No.(48)St/DBT-EPN Toxin/Gel Docu./NGN/2009-10

Date: 09.12.2009

**Sub: Quotation for the Purchase of Gel Documentation & Fluorescent Imaging System**  
– reg.

Sir,

Sealed quotations are invited by the Director, Central Institute for Cotton Research for the purchase of following **Gel Documentation & Fluorescent Imaging System** on the terms and conditions prescribed below:

SN	Specification	Rate (In Rs.)	Qty.	Amount (In Rs.)
1.	<b>Equipment : Gel Documentation &amp; Fluorescent Imaging System</b> As per the enclosed detailed Specification	@ Rs.	ONE	Rs.

#### Terms & Conditions:

1. The price should be inclusive of all taxes /VAT etc.
2. Sealed quotation along with the literature and pamphlets should reach this office on or before **30.12.2009**.
3. As the equipment/Instrument is urgently needed for our research work, the firms who will be able to make immediate supply F.O.R., Central Institute for Cotton Research, Panjari Farm, Wardha Road, Near Khapri, Nagpur should quote.
4. Envelops may please be superscribed with the word “**Quotation for Gel Documentation & Fluorescent Imaging System**”.
5. Instruments indigenous or imported will be purchased from only those parties, who can ensure and undertake to provide the satisfactory after-sales-service within the country. The supplier should also ensure to offer a complete detailed package on back up support, prompt commissioning, after- sales-service including workshop backup, timely supply of spares, timely repair of equipments, proper training to Scientists/Technicians on use.
6. The quotation should be quoted by solely local authorized stockiest Service distributor against this equipment. Who has necessary service backup facility.
7. Authorized Certificate should be enclosed with the quotation for this equipment.
8. Quotation who are unable to provide this local service facility will not be entertained.
9. The make, quality and specifications may be stated in detail/must be as per details given by this office.
10. The payment will be made only after completing delivery according to the specifications, quality, quantity given in the quotation/purchase order.
11. Other terms and conditions of supply if any may also be stated.
12. Equipment / Instrument will be accepted only after giving satisfactory demonstrations.
13. The director, CICR, reserves the right to accept or reject one or all quotations/without assigning any reason thereof.
14. The quotations, without the above desired information/received after the due date are liable to be rejected.

**Administrative Officer.**

#### Specification of Gel Documentation System :

##### Gel Doc XR Plus

Fluorescent, Densitometry, 1D and 2D Gel, Blot, Microplates, Films & Colony counting applications. **CCD resolution (HxV):** 1360 x 1024 pixels, **Pixel Density:** 12-bits (4096 gray levels), **Pixel size (HxV):** 4.6 x 4.6 micrometre, **Dynamic range:** More than 3 orders of magnitude, **Pixel resolution:** 14,47,680 pixels (1.4 Mega pixels), **Motorized zoom lens:** C-mount, f/1.2, 8.5-51mm, **Darkroom upgradable to Chemi, Firewire interface for rapid data transfer, Illumination modes:** Trans-UV, white, epi-white (white top lighting for photograph of blots, pertridishes etc .; integrated white light epi-illumination for correct gel positioning).

**Excitation source:** Built-in UV transillumination with 254,302 & 365nm and white light also. Built-in UV protection with prep mode, UV safety interlock (protects users from UV exposure by shutting off UV light source during opening of the main door or pull out drawer), UV and white lamp auto Shut-off within 5mins to

preserve lamp life. **Filter position:** Fluorescence:2 **Chemiluminescence:**1 **Emission filters:** Special Amber filter supplied along with the system spectral range of 548-630nm for the following applications; EtBr, SYBRGreen, GFP, SYBR Gold, Fluorescein, CY3, Rhodamine, SYPRO Ruby, Texas Red, Hoechst, Coumarin etc.

**Transillumination area:**25x26cm, **Uniformity:**<5%CV, **Software compatibility:** Windows 98 ,XP,NT,2000 Mac OS 9. X, **More details on software specification has been mentioned under the heading software.****Dimensions(WxDxH):**60x36x96cm, **Weight:** 32Kg

#### **SOFTWARE:**

**1.Unlimited copy of Quantity one basic software: Features :**Image acquisition, Transform, Contrast adjustment, zoom(IRIS, zoom & focus setting control), Rotate, Text tool. Density tool for quantity calculation, molecular weight calculation, density distribution plot. Crop image, volume tool for % volume, concentration, volume analysis, standard deviation, Regression curve fitting by six different methods. Background subtraction by local global method, Ready agarose 96 plus setting, Print, import & export to tiff files.

**2.Quantity one software:- Features and Benefits:** True MultiPlatform file-save on one computer and analyses on another without loss of work. **Colony Counting:** Quickly and accurately count colonies and plaques. **Volume Analysis:** Quantitate areas quickly. **Image Rotation:** Allows for fine tuning image orientation in degrees and radians.**3-D Viewer for critical analysis of closely spaced bands. Annotation Tools:** Allows users to do prepublication work with one software package. **Filter Wizards:** helps users choose right imaging filter to improve image. **Flexible Array Tools:** Provides ability to quantitate medium to high density arrays. **Drives multiple Imaging platforms:** Eliminates learning curve for multiple device laboratories. **On screen Context sensitive Help:** Makes software easier to use. **Transform Images:**Provides complete tools to quickly visualized even the faintest bands. **Automatic band and Lane detection.Lane based Analysis:**Gets results quickly and allows for overlaying quantitation on top of image lane to lane profile analysis, Guassian analysis, **Band detection:**Highly flexible band detection eliminates user to user variability. **Matching:** Provides basic fingerprinting abilities.(9 different methods to construct dendogram),**Report data:** provide all the data a user needs. **Export & Import Tiff:** Provides compatibility with other software packages.JPEG file Export **Calculate Molecular weights:** Quickly determines Mol. Wt. and displays info with the band. **Cluster Analysis:** Creates dendograms between lanes for RFLP. (9 different methods):Four different modes of background subtraction.a)Transformation b) Gradient Ge c)Global d)Filter Wizards. Contour Analysis, comet Analysis, Microplate Reading(96,192, and 354 well) **Quick Guides:**Users can do work without worrying about forgetting key steps.**Contour Analysis:**Allows for user independent volume calculations. **Differential Display:** Automates Different Display calculations.**VNTR:** Automates VNTR calculation.**Reads MD and Fuji formats:** Provides easy upgradable path for new users. **Application Oriented User Interface:** Reduce learning curve to a minimum. **GLP/GMP Mode:** Helps elimination user to user variability in calculations.**File History:** Saves a record of modification to image. **Unique Users setting:** Allows each user to save their favorite setting separately. **File Date Time Stamp:** provides easy tracking of images, elimination hard disk cluster. Image background Subtraction.: Correction for uneven or high background values. **Password driven protection to prevent accidental manipulation of stored images :** Data security 21CFR Part II compliance Module available. White Light Conversion Screen: This Screen converts UV Light to White for Protein Gets Applications PC , thermal Printer with 5 rolls of Paper

#### **Accessories**

- 1) Laptop-**Main features: processor : Intel R Core™ Duo processor T6600 (2.20GHz 800MHz 2MB). **Operating system:** Genuine Windows 7 Home Premium 32, **System graphics:** Intel Integrated graphics x 4500, **Total memory :** 3GB PC3-8500 DDR3 SDRAM 1066MHz, **Display type:** 15.6" WXGA LED Backlight TFT 1366 x 768 , **Hard Drive device :** 320GB 5400, **Network card :** Broadcom 11b/g Wi-Fi wireless, **Optical device :**DVD Recordable (Dual layer ) **Bluetooth:** Bluetooth version 2.1 + EDR **Finger print reader :**None, **Warrenty :** One year parts and labour(system battery: one year) **Pointing device :** Industry Standard Touchpad **Battery :** 6 Cell Lithium- Ion
- 2) Colour Laser Printer**