
Sub.: Expression of Interest (EOI) for Gel Documentation System with Computer & Software

Ref. No. : CBMR/ PUR/ 1198/ 2025

Dated: 23.01.2026

This Expression of Interest (EOI) invites applications from the reputed OEMs (original equipment manufacturers) for “Gel Documentation System with Computer and Software” by the Centre. Main features of the instrument as follows:

Gel Documentation System with Computer and Software

Applications are invited for the supply, installation and commissioning of **Gel Documentation System with Computer and Software**.

Features:

- 1) Chemiluminescent Documentation System should be fully automated with CCD technology with integrated touch screen to support multiple imaging applications that includes **Nucleic acid gels (DNA & RNA), Protein Gels, Chemiluminescence Blots, Multiplex Fluorescent Blots, etc.**
- 2) System should be able to capture images of gels with wide **field of view** (image up to minimum 2 mini blots or gels) (Coomassie or Silver-stained gels with high resolution).
- 3) **Camera:** 16-bit or more cooled CCD camera (**>6.0 megapixel**) for accurate quantitation supported by software that can provide image display, optimization, and quantitation.
- 4) System should be capable to capture images of Western Blots using visible Chemiluminescence and Fluorescence probe detection system, gels with ethidium bromide or SYBR Safe containing samples and others.
- 5) System should be cooled **below ambient temperature** (20-25°C) to minimize the time required before operation caused by higher levels of cooling
- 6) Motorized and Fully Automatic fixed lens.
- 7) System should possess built-in **Green LED Transilluminator** with sample viewing & for documenting Ethidium bromide-stained gels.
- 8) System Should have automatic operated front drawer for easy placement of the sample.
- 9) System should have GEL excision feature to cut the DNA GEL by continuously illuminating the Gels.
- 10) System should have following Illumination sources –
UV/ Green LED transilluminator, Epi White LED, Epi near-IR LED
- 11) System should come with **SMART Exposure Technology/ Auto Exposure** for **Auto-focus & Auto-exposure capability** & should have **Automatic Image Acquisition** to automatically take best focus as per sample.

- 12) **Filter Wheel and filters:** System should have minimum 3 excitation and 3 emission filters for Chemiluminescence & Fluorescence Blot Imaging. The filter wheel should be motorized and automatic without any requirement of manually changing or removing filter wheel.
- 13) System should have images in **TIFF, JPG, PNG & PDF formats**.
- 14) System should offer various binning option modes ranging from **1x1, 2x2, 3x3, 4x4, 5x5, 6x6 and 8x8** for increased sensitivity and flexibility across applications.
- 15) System should have built-in algorithms that can identify multiple analysis frames and then assigns and quantifies lanes and bands for each analysis frame independently to allow multiple gels or membranes to be imaged and analyzed simultaneously with minimal user input and manipulation.
- 16) **Software Details:** Multi user Software, license free and should be freely upgradable till the warranty time period and beyond.
- 17) Software should be **Cloud enabled** and should not have any requirement for **license registration allowing unlimited installation of software for multiple users with full functionality**.
- 18) Additional applications include Colorimetry for **Stained Membranes, Protein gels & Western Blots as well as Fluorescent stained Nucleic Acid Gels and Protein Gels**.
- 19) System should have a **built-in computer and touch screen interface**. No additional computers should be required. In addition, external software should be freely available that can be accessed and utilized from any computer with network access by USB and LAN port.
- 20) Additionally, system should have UPS backup for minimum 30 min.
- 21) Any items required for installation and calibration should be provided.
- 22) Performance certificate and user list along with model information installed in other labs/ government organizations in India should be provided.
- 23) System should come with minimum 5 years warranty and CMC from the date of installation.

General information / conditions / instruction to prospective bidders:

The scope of work includes the Supply & Installation of Gel Documentation System with Computer and Software. Firms having done similar work can apply along with documentary evidence for work done in the past in government / private sector. The firm should also meet other criteria given below and is required to submit all supporting documents relating to the credentials / technical capabilities / financial standings and track along with their EoI as follows.

- a) Name of the firm with their constitution/proprietorship/partnership details etc. with the date of establishment/registration. Please submit the Articles of Association with the application.
- b) List of similar equipment supplied successfully in the last 5 years in Government research labs, other Government organizations and to Private Agencies along with brief details of the

work. Enclose relevant document / certificate to ascertain the satisfactory completion of the work / service provided.

- c) List of employees in the firm, who will take up the requisite job/service listed above, their area of expertise and nature of their work in last five years.
- d) The list of work in hand, nature of work, cost, date of start and completion with present progress and the contact details of the clients.
- e) Proof of Turnover certified by a Chartered Accountant.

Applications in response to this EOI should be submitted in a sealed envelope, superscribed "Expression of Interest (EOI) for Gel Documentation System with Computer and Software" addressed to the Director, Centre of Biomedical Research (CBMR), SGPGIMS Campus, Raebareli Road, Lucknow- 226014 (UP) positively by 08.02.2026 by 3.00 p.m. The offer shall be opened on the same day at 3.30 p.m. There is no need to quote the price at this stage.

“A Technical Committee, constituted by the competent authority shall evaluate the applications and short list the firms for further proceedings. Short listed firms shall be invited for the technical presentation / discussion scheduled on a suitable date, which would be communicated to concerned firms”.

If any information furnished in the application is found incorrect at a later stage, the firm shall be liable to be debarred from participation/taking up work in CBMR. CBMR reserves the right to verify the particulars furnished by the applicant independently. CBMR reserves the right to reject any application without assigning any reason.

ADMINISTRATIVE OFFICER