

University of Delhi, South Campus
Central Instrumentation Facility

No. DU/IOE/CIFUDSC/2022

Date: 30.12.2022

Quotations are invited through CPP portal (e-procurement) under 2-bid system for multi-purpose Imaging System (Scanner) with FOR destination price to be quoted in multi-currency for University of Delhi, South Campus. The quote should be inclusive of all taxes and duties for supplying and installation of the item as described below.

Name of the equipment: Imaging system (Scanner)

Quantity: One

Technical Specifications for Imaging system (Scanner):

1. A single unit capable of performing high-speed and high-resolution optical scan of Fluorescence, phosphor imaging, densitometry, and chemiluminescence (Dark scan) measurements.
2. System should have LD Lasers with excitation wavelength ranging between 488 - 785 nm as excitation sources for use with a wide variety of imaging requirements (colorimetric, RGB, NIR, etc). There should be minimum of 5 laser excitation wavelength.
3. System should have the minimum of following filters – 390BP, 525BP20, 570BP20, 670BP30, 720BP20, 825BP30 as standard for the applications mentioned above
4. System should have one bi-alkali PMT (Photomultiplier tube) based detector for phosphor-imaging.
5. System should have resolutions of 10, 25, 50, 100, 200 μm , and prescan at 1000 μm resolution
6. System should be able to detect following radioisotopes: ^{11}C , ^{14}C , ^{32}P , ^{18}F , ^{33}P , ^{35}S , ^3H , ^{125}I and ^{99}Tc etc.
7. System should generate 16-bit image with more than 5 orders of magnitude of Dynamic range or more.
8. Detection Sensitivity: LOD of 0.00518 $\mu\text{Ci/g}$ for ^{14}C with autoradiographic standard (CFQ12000) is needed.
9. Scanning area should be 40 \times 46 cm or more. User should be able to select the scanning area as per the size of sample.
10. The following stages should be available is system - Fluor Stage, Multi- Stage, and IP Stage
11. System should be provided with a LED based closed image eraser to erase the IP-screens with a capacity of at least 35 \times 40 cm^2 .

12. Should have software for 1-D applications like 1D analysis: fully automatic lane and band detection, array analysis, dot and slot blots, microplates and other array grids, colony counting and for 2-D spot measurement.
13. Should include 10 multipurpose Phosphor imaging screens, plus 10 matching cassettes of size 20 x 25 cm.
14. Installation and training: Vendor must take care of on-site installation, demonstration, and training by a well-trained engineer. Required training for smooth operation of the instrument should be provided free of charge during and after installation.
15. A list of at-least 10 academic user installations of the quoted equipment within the country should be enclosed.
16. Original catalogue from the manufacturer with technical specifications and relevant application notes must be enclosed
17. Warranty: The imaging system must carry a minimum of five years of comprehensive onsite warranty from date of installation which would cover the entire system, accessories, and local items. The maximum downtime in case of repairs must be mentioned by the vender.
18. CMC: Additional five years of CMC (comprehensive maintenance contract) after completion of 5 years warranty must be included in bid. The CMC should include all machine parts including lasers.
19. The vendor must certify that relevant spare parts will be available for at least 10 years in future. The vendor must provide a certificate saying that prompt after-sales service such as regular maintenance, troubleshooting and fixing will be carried out by company-trained engineers
20. Specifications for desktop PC (01 no.): Vendor shall supply a computer from a branded company, e.g. HP, Dell, HCL, Lenovo or IBM with the requisite software installed on it. It should meet the following specifications:

• Processor	Intel core i5, 8th generation or higher
• Processor speed	3.2 GHz or higher
• RAM	16 GB or higher
• Hard disk size	1 TB
• CD Writer	52X +DVD
• Hard Disk speed	Minimum 7200 rpm SATA
• Min resolution	1024x768 or higher
• Network card	Gigabit
• Operating system	Window 10, 64 bit or higher environment
• Connectivity	WiFi, Bluetooth 4.0
• Mouse	Optical
• Keyboard type	Multimedia

- Monitor 23" display TFT or higher
- Warranty comprehensive 3 years on site
- Certification UL and FCC certified

Important information:

1. The quotation should be addressed to the "Chief Executive Officer, Institute of Eminence, University of Delhi, Delhi-110007". The quote should be submitted with all terms and conditions and necessary documents latest by 14.01.2023.
2. Quotations have to be submitted in a two-bid-system. The first part, Technical bid, should consist of all technical details and supporting documents with terms and conditions. The compliance sheet must be filled by the vendor.
3. The second part, financial bid, should contain item-wise pricing of items mentioned in the Technical bid. Both the quotation documents/ bids are to be submitted through GeM/ CPP portal of the Government of India only (e-procurement). Hard copies of bid will not be accepted.
4. Bank Guarantee of INR 10 lakhs should be provided along with tender documents, in favour of Chief Executive Officer, Institute of Eminence, University of Delhi, Delhi-110007.
5. The bidder will have to quote all items together. Partial quotes will not be accepted. For each item, the make, model and technical specifications and quantity have to be mentioned clearly. Original brochure must be provided.
6. The quote should be valid for 90 days from the last date of submission of bid.


30.12.2022
Professor in-charge
Central Instrumentation Facility
Biotech Building
University of Delhi
South Campus
New Delhi-110 021