

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B , Raja S.C. Mullick Road, Jadavpur, Kolkata-700032

NIT No. : IACS/SBS/PS/2018-19/83

Date: 04/01/2019

Sealed tender in two bids system (technical bid and price bid) is invited from bonafide, resourceful and eligible manufacturer/exclusive distributor/vendors for “**Chemidoc Multiplexing Imaging System with Accessories**” Part-I (Technical Bid) of the tender should contain technical specifications in detail as well as commercial terms and conditions. Part-II (Price Bid) should clearly indicate group-wise price, if needed, as mentioned in the technical bid. The Technical Bid and Price Bid are to be submitted in separately sealed envelopes, distinctly marked accordingly and both to be put inside another envelop, that should be sealed and superscribed with tender notice no. and due date. The bidders may submit bids duly signed in their own letterheads.

Completed tender bids should reach the office of the **Registrar, Indian Association for the Cultivation of Science (IACS), 2A & 2B Raja S. C. Mullick Road, Jadavpur, Kolkata-700032** on or before the scheduled date and time specified below:

Tender Notice No.	NIT No. IACS/SBS/PS/2018-19/83 Date: 04-01-2019
Last date and time of submitting tender	25.01.2019, (1.00 PM)
Pre-bid meeting(date, time & place) to discuss technical specification	15.01.2018 at 2.30 PM in Room #64A IACS main building
Date and time of opening tender (Technical Bids)	25.01.2018, at 3.00 PM
Place of opening tender	2.30 pm in room #64A IACS main building
Date and time of opening of Price Bid	The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.
Contact	Email: bcps@iacs.res.in Tel.+91 33 2473 4971 [Ext 1518] Mobile: 8981244884

The technical bids will be opened first to judge/evaluate the technical specifications of the said instrument and thereafter the price bids of only technically qualified bidders will be opened.

Technical Bid Evaluation: The Technical Bids will be evaluated in the presence of the representatives of intending bidders who will be able to clarify technical aspects of their bids, if any, required by the Technical Evaluation Team.

Opening of price-bid: The Price Bids of the bidders qualifying the technical bid will only be opened, the date of which will be intimated to the short-listed bidders at their email addresses. The rest of the bids will be rejected.

Please note that IACS will not provide any accommodation or reimburse any expenses to any of the bidders for attending opening of technical bid.

Quotations received incomplete or beyond the stipulated time will be summarily rejected.

Bidders should submit their past experience for supplying and successful installation of similar units to other research Institutes/Universities/other organizations in India and abroad. Please provide documentary proofs of such successful installation and supportive documents that the instruments are running successfully.

1. TECHNICAL BID

The technical bid should contain technical specifications and should be kept in a separate sealed envelope duly superscribed as 'TECHNICAL BID' on the outer cover of the envelope as already detailed above. **It should be clearly mentioned on the envelope as "Technical Specification for Chemidoc Multiplexing Imaging System with Accessories".**

TECHNICAL Specification for Chemidoc Multiplexing Imaging System with Accessories:

1. System with true 16 bit CCD (not A/D) camera; pixel density of 65,536 gray levels.
2. Individual pixel size should be at least 4.54 x 4.54 μm or bigger.
3. Camera resolution should be more than 6 megapixels.
4. The system should have dynamic flat fielding technology.
5. The instrument should provide excellent quantitative data from a single blot having very intense and weak signals in a single image; to facilitate the same instrument's dynamic range should be at least 4 orders of magnitude for all applications (please support with relevant technical data)
6. Instrument should provide highest level for sensitivity and hence must have minimal dark current with maximum limit of 0.002 e/p/s and low read noise of not more than 6e-.
7. The system should be supplied with a 10% strain free solution with Temed APS from Same manufacturer
8. The camera should have peltier based cooling.
9. Quantum efficiency at 425 nm should be 70% or more, this will ensure that the instrument is highly sensitive to very faint signals from chemiluminescent blots.
10. Motorized zoom fast lens with f/0.95 or better should be provided.
11. Light sources/excitation should include – Trans-UV (302 nm), Epi White, trans-white (requires White sample tray).
12. Instrument should have provision for protective UV shield for use during band excision with safety interlocks to avoid un-intentional UV exposure to the user.
13. Minimum imaging area for white light and chemiluminescence application should be 20.5 cm x 16.5 cm.
14. Sample drawers with fixed stage.
15. Should provide image acquisition with automatic zoom, focus, and iris adjustment without the need for users to focus or adjust aperture settings.
16. The instrument should have onboard attached touchscreen of 12" or bigger with multi-touch capability (2 points) enabling users to easily interact with the touchscreen to acquire, assess and export images. Touchscreen actions should include – tap, double tap, pan, scroll to zoom.
17. Instrument should have multiple input/output ports with minimum 3 USB ports allowing users to connect USB devices (like keyboard, mouse, data storage, and printer). One USB port should be provided on the front panel for easy export to USB. Also, system should have one Ethernet port so that users can transfer image files via Ethernet to networked computers.
18. Factory calibrated flat fielding for ensuring uniform data for all applications. System should be calibrated for image area, focus, and flat field correction at the factory and files stored in the integrated PC.
19. Users should be able to lock the system to prevent others from interrupting/changing the settings

20. The system should have the below illumination sources :

Trans-UV, 302 nm (standard)

Epi-white (standard)

Trans-white (standard)

Trans-blue, 450-490 nm ((standard)

Epi-blue, 460-490 nm excitation (standard)

Epi-green, 520-545 nm excitation (standard)

Epi-red, 625-650 nm excitation (standard)

Epi-far red, 650-675 nm excitation (standard)

Epi-near IR, 755-777 nm excitation (standard)

21. System should be supplied with a stain-free acrylamide solution kit to enable stain-free imaging of gels and blots.

22. The system should have a fixed sample stage.

23. The system should provide flexibility in selecting the pixel binning options, should be possible to select minimally 2x2, 4x4 and 8x8 binning.

24. System Should be Quoted with Semi Dry Transfer Apparatus along with a High Current Power Supply of below Configuration :

Semi Dry blotter

- Gel Size : 24x16

- Buffer requirement : 200 ml

- Gel Capacity : 3 Bigger size gels and 4 small size gels

- Transfer time : 15-60 minutes

- Electrode: durable platinum coated titanium anode & stainless steel cathode

Safety cover to break the electrical current when lifted to prevent electrical shock

- Anode platform should rest on 4 springs to accommodate various gel stack

- Single step locking system for simple & speedy setup

- Should be light weight upto 3-4kg

Power Supply :

Output specifications 250 V, 3.0 A, 300W

Output range (programmable) 5-250 V, fully adjustable in 1 V increments

0.01-3.0 A, fully adjustable in 0.01 A increments

1-300W, fully adjustable in 1W increments

Type of output Constant voltage, current, or power with automatic crossover

Output terminals 4 pair recessed banana jacks in parallel

Timer Up to 99 hr, 59 mm

Pause/resume function Yes

25. System should be quoted with a vertical gel running apparatus of below config:

Mini Vertical gel Specification- for 8 X 7 cm gels

High throughput- Capable of running up to 4 mini gel (8 X 7 Cm) simultaneously.

Flexible- Capable of running hand cast as well as precast gel.

Running and casting module should be different

Interchangeable module- Should be capable of using blotting module to do western blotting.

Leak proof, tape free and easy assembly.

Patented Flap wing for leak proof assembly.

Permanently bonded spacer plates for leak proof, without agarose sealing & taping casting of gels.==

Casting frame with simple cam closure mechanism that gives precision alignment on any flat surface.

Side by side casting stands that allow access to both gels simultaneously.

Patented colored sample loading guides to prevent the skipping or repeated loading lanes.

Modular design can be used do western blotting by using the blotting module only.

Should able to run gels in 15-20 mins.

Should come with buffer dam.

It Should be Supplied with 10% Stainfree Fast Acrylamide Starter Kit

26. Should be supplied with a suitable 1 KVA Online UPS

27. Computer should be supplied with the mentioned specification Dell XPS 8930-7814BLK-PUS Tower Desktop - 8th Gen Intel Core i7-8700 Processor, 32GB DDR4 RAM, 1TB Hard Drive + 16GB Intel Optane Memory, 6GB Nvidia GeForce GTX 1060, DVD Burner, Windows 10 Pro, Black

Warranty: Equipment should be offered with 1 yr warranty followed by 2 yr Annual Maintenance Contract (AMC) with free of cost.

Servicing facility within India is a must while service engineer stationed at Kolkata will be preferred.

A list of other places where the instrument has been installed should also be provided.

A compliance table (see below) must be prepared and submitted along with the technical bid.

Sr. No	Tender specification	Your offered instrument specification	Extent of compliance

Tender will not be accepted if the technical compliance chart is NOT provided following the above format.

2. PRICE BID

The financial bid indicating (item-wise) price for the item(s) mentioned in the technical bid should be kept in a separate sealed envelope duly super scribed as 'PRICE BID' on the outer cover of the envelop as already detailed above. Price bids of only technically qualified bidders will be opened and they will be intimated the date and time of the opening of price bid at their e-mail ids. Rest of the bidders will stand rejected.

Price: Price to be quoted both on FOB and CIF basis for foreign currency or in Indian Currency.

The financial bid should be super scribed as "Finance Bid" on the outer cover of the envelope.

3. BID SECURITY:

An Account payee Demand Draft of any of the Commercial Banks for Rs. 50,000 (Rupees Fifty Thousands only) drawn in favour of “Indian Association for the Cultivation of Science (State Bank of India, Jadavpur University Branch, A/C No. 11079699211, IFSC: SBIN000093, MICR Code: 700002048)” is to be furnished by the bidders alongwith Technical Bid, except Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or are registered with the Central Purchase Organisation or the concerned Ministry or Department.

Alternatively, the bidder shall have the option to furnish EMD in the form of Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the Commercial Banks. The Bid-Security should have at least 90 (ninety) days validity period beyond the final bid validity period.

In case of non-award of the work the Bid Security money would be returned to the unsuccessful Bidders.

4. PERFORMANCE SECURITY:

An Account Payee Demand Draft on any commercial bank of India or Bank Guarantee (BG) of any Commercial Bank preferably located at Kolkata of 10% of the order value in the name of “Indian Association for the Cultivation of Science” is to be furnished by the successful bidder as Performance security. Performance security money should remain valid for a period of 60 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations. Bid security money or EMD will be refunded to successful bidder on receipt of the Performance security money.

5. TERMS OF PAYMENT :

100 % through wire transfer against delivery & successful installation & commissioning subject to submission of performance guarantee.

6. GENERAL INSTRUCTIONS :

1. Validity of tender: Tender submitted should remain valid for at least six months from the date of opening the tender. Validity beyond six months from the date of opening of the tender shall be lapsed by mutual consent.
2. The tender should accompany a compliance chart.
3. Incomplete and conditional tenders as well as tenders received after the due date will be summarily rejected without assigning any reasons thereof.
4. At any time prior to the bid due date, IACS may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder during pre-bid meeting, modify the bidding documents. The amendment(s) will be notified on the institute website. Prospective bidders are advised to occasionally visit the website (www.iacs.res.in/tender) for any amendment.
5. Installation/Demonstration/Application training at site: Installation & user training at IACS, free of cost by the supplier.
6. Service facility: In India, preferably Kolkata, supplier should mention their details of service setup and man powers who are responsible for after sales support. Response time should be within 24 hrs.
7. The model number, make and a printed literature of the product should be submitted positively.
8. Proposed delivery schedule should be mentioned clearly.
9. Manufacturers / exclusive distributors / vendors should have history of supplying this type of instruments to this or other scientific organizations. Availability of a list in this regard would be preferred.
10. Authorized dealership certificate should be provided in case of principal manufacturing company is not quoting directly.

11. Guarantee certificate, users manuals etc. are to be handed over to the user after successful commissioning of the system.
12. In the event of date being declared a closed holiday for purchaser's office, the due date for submission of bids and opening of the technical bids will be the following working day at the appointed time.
13. In case of any dispute, the decision of IACS authority shall be final and binding on the bidders.
14. In case of any litigation the matter will be dealt within the jurisdiction of the High Court of Calcutta only
15. For any clarification regarding technical specifications, information etc., please send your queries to bcps@iacs.res.in.
16. The authority of IACS reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Acting Registrar