

Department of Biochemistry  
University of Delhi South Campus  
Benito Juarez Road, New Delhi 110021

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**Quotation Invitation Letter through e-procurement**

Ref. No. – UDSC/BIOCHEMISTRY/2019/13

**PURCHASE OF ELECTROPHORESIS UNIT WITH ALL ACCESSORIES**

Quotations are invited through e-procurement for the following equipment to be uploaded latest by **10<sup>th</sup> June, 2019**

**Name of the equipment: ELECTROPHORESIS UNIT WITH ALL ACCESSORIES (including vertical SDS-PAGE electrophoresis units, power supply and transfer/blotting units)**

**VERTICAL SDS-PAGE ELECTROPHORESIS (Two Units)**

- The system should be capable of running 8 x 7cm.
- It should be capable of running at least 2 gels simultaneously.
- It should run the gels in less than an hour.
- It should be capable of running upto 18 samples/ gel.
- It should be efficient and uniform cooling mechanism for avoiding any smiling effect on the gels.
- It should come with heat-conductive alumina gel plate which is constantly in contact with the buffer for efficient cooling of gels.
- It should come with a built-in heat exchanger, with or without connection to an external circulator.
- It should be possible to quickly assemble the gel sandwiches with T shaped spacers and clamps with integral springs to avoid leakage.
- It should have an arrangement like a serpentine channel for pumping the coolant between the two upper buffer chambers.
- It should come with minimum of 10 glass plates, 2 notched plates, 1 dual casting stand, 0.75mm spacer (2 pairs), 0.75mm 10-well combs (2)

### **POWER SUPPLY ( Two Units)**

- Should be capable of being used with both electrophoresis and blotting units.
- Easy to read digital display (minimum 4 digit numeric display).
- The digital display should show both the parameter values as well as any error messages.
- Voltage: 5-300V (accuracy-4%), Current: 10-400Ma (accuracy-4%), Time: 0.01-23.59hr (accuracy- ±1min), max power output: 80W, operating temperature: 4-40 degree Celsius.
- Programming resolution for various parameters-voltage: 1V, Current: 1mA , Timer: 1min.
- Timed or continuous runs, with end-of-run alarm, if desired.
- Material of construction of the instrument box should be aluminium.
- Automatic parameter limit crossover to prevent overheating and protect experiments and equipment.
- The instrument should have provision for recovery after power failure and the program should continue automatically once the power resumes.
- The equipment should have membrane keypads for easy programming.
- Two pairs of power outlets should be present for duplicate parallel runs.
- The output sockets of the power pack should be of acetalplastic material.
- Max power consumption should not exceed 120W.
- Desirable dimensions (w x d x h): 25 x 21.5 x 9.5 cm.
- Weight of the instrument should not exceed 3kg.

### **TRANSFER/ BLOTTING UNIT(Two Units)**

- The system should be able to perform electro-transfer for western, southern as well as northern blots.
- It should support gel size of at least 8 x 10cm.
- It should be meant for performing tank transfers (and not semi-dry transfers).
- The complete run should be achieved in less than 1 hour.
- It should transfer at least 4 blots simultaneously.
- It should come with built-in heat exchanger for controlling the temperature during transfer.
- The temperature of the transfer buffer is controlled by circulating the coolant through heat exchanger in the bottom.
- The buffer should be separated from the coolant by the heat conducting alumina plate.

- Max voltage: 50W, Max current: 500Ma, Max voltage: 100V, max operating temperature: 45 degree Celsius.

- System should be able to withstand humidity up to at least 80%

- Desired dimensions : P 14 x 24 x 16.5cm

General instructions for the whole assembly:

- The above equipments should be of the same make in order to avoid incompatibility issues.

- The accessories should have CSA, UL, ISO, CE or other standard international certifications.

- Local application/service support should be available.

- Installation list in premier institutes in last 5years to be provided.

- 3 reference contacts are to be given.

- Website/literature justifying the technical specifications.

- Warranty for 12 months is must from the date of delivery with facile aftersales service.

#### **Eligibility Criteria**

- **All the above items and accessories should be of same make or company.**

- Bidder should be Manufacturer/ Authorized Partner/ Reseller of the manufacturer and a Letter of Authorization from manufacturer for the same and specific to the tender should also be enclosed.

- The Bidder shall provide the Registration number of the firm along with the LST/ CST/ WCT No. and the PAN Number issued by the concerned authorities.

- Separate technical and price bid should be uploaded.

- Technical Bid must contain a Technical Compliance sheet. Technical compliance sheet must have the page number of a published catalogue/ technical specifications/accessory information/manufacture website as proof for compliance with each technical point. Relevant copies of published catalogue/ technical specifications/accessory information/manufacture website that have been listed as proof should be attached.

- The bidder must not be blacklisted by Delhi University. A Certificate or undertaking to this effect must be submitted.

### **Instructions to Suppliers:**

Two types of quotations are to be submitted: **Technical** and **Financial**.

**Technical Quotations** should contain all details of technical specifications of the equipment including manufacture and model details along with commercial terms and conditions, warranty and delivery schedule. The quote should be valid for a minimum of 120 days from the due date. Pictures of the equipment must be included with similar specifications as above with logo or name of the company on them. Authorization certificates from the Principal manufacturer, if any, must be provided. Proprietary certificate for any proprietary item must be provided. Unique features maybe highlighted along with their applications and advantages. A user list of atleast 5 users of the equipment quoted (who have installed and successfully used for years) with addresses / e-mail IDs / phone no.s should also be provided.

**Financial Quotations** should contain price of the equipment, discount if any, packaging and forwarding charges, Air Freight and insurance charges. The price quoted should be F.O.R destination price in INR against customs duty exemption certificates provided by the buyer and inclusive of standard installation.


The supplier should upload both the quotations separately through e-procurement website.


Institute reserve the right to order equipment with better quality and suitable over lower price and to accept or reject any or all quotations without assigning reason thereof. It also reserves the right to request for free demonstration of the quoted item for technical accessibility as per the tender specifications. The tender may also be cancelled without providing reasons.

Payment will be made against successful delivery and installation, after confirmation that the item is intact and functional.

### **No Commitment to Accept Lowest or Any Tender**

- Demonstration of the item or its use will be required, if needed.
- Institute reserves the right to order equipment/accessories with better quality and suitability over lower price and to accept or reject any or all quotations without assigning reasons thereof.
- University of Delhi shall be under no obligation to accept the lowest or any other offer received in response to this tender notice and shall be entitled to reject any or all offers. University of Delhi will not be obliged to meet and have discussions with any vendor, and or to listen to any representations.

  
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