

**INVITATION OF TENDER FOR SUPPLY OF  
Minor Instruments under DBT, Govt. of India sponsored project**

**Tender No.: ZOO/KG/DBT/20-21/01**

**Dated: 24-06-2020**

Sealed 'quotations' / 'tender offers' are invited from eligible manufacturers / suppliers or their direct Indian agents for supply **of the following items** under the Department of Biotechnology, Ministry of Science & Technology, Government of India sponsored Research Project (BT/PR28574/AAQ/3/920/2018). Please send your **best offers with proper discounts** applicable to the non-profit making educational institutions.

**Item No. 1:** Vertical gel electrophoresis unit with power pack and accessories

**Description: Mini P-4 Vertical Electrophoresis System** (0.75 mm, 2 gels), that includes mini electrophoresis cell (**2 gels**), casting stands, 2 casting frames, 5 sets of glass plates, 10-well combs × 5, sample loading guide, instruction manual with **Mini-TBC trans blot module** and **Basic Power Supply**.

**Technical Specifications:**

**A) Vertical gel electrophoresis unit**

- a) Cell: High transparency molded PC, clearly display the running status.
- b) Electrode Assembly: Runs 1-4 gels using 2 running modules, easy-to-use and leak-free
- c) Casting Stand: Side-by-side design allows access to two gels simultaneously
- d) Casting Frame: Simple cam closure; no bulky clamps or thumbscrews.
- e) Gaskets: Silicone rubber foaming against leakage.
- f) Plastic Comb: Do not inhibit polymerization and have a built-in ridge to eliminate air contact during gel casting for uniform gel polymerization.
- g) Glass Plate: Labeled with thickness for instant identification.
- h) Spacer Plate: With permanently bonded spacers guarantee perfect alignment and leak-free casting.
- i) Sample Loading Guide: Prevent skipped or repeated loading lanes.
- j) Glass plate size (W × L): Short plate, 10.1×7.3 cm; Spacer plate, 10.1×8.2 cm
- k) Gel size (W × L): Hand Cast, 8.3×7.3 cm; Precast, 8.6×6.8 cm  
Gel Thickness: 1 mm

**B) Mini-TBC trans blot module**

- a) Mini-TBC trans blot module that includes: transfer module, 2 gel holder cassettes, 4 fiber pads, cooling units. Transfers two 10 × 7.5 cm gels in 1 hour, low-intensity, overnight transfers also possible.
- b) Wire electrodes are placed 4 cm apart for strong electrical fields and efficient protein transfer.
- c) Color-coded cassettes and electrodes ensure proper orientation of the gel during transfer.
- d) Ice cooling unit, completely contained within the Mini TBC cell, absorbs heat generated during rapid transfers.

- e) Maximum gel size (W × L): 10 × 7.5 cm
- f) Buffer requirement: 450 ml (Total buffer volume: 700 ml)
- g) Gel capacity: 2 Mini P-4 gels, 2 Ready Gel, precast gels
- h) Typical run times for SDS-PAGE: 35-45 minutes (at 200V Constant)

**C) Basic Power Supply (300 V / 400 mA or, 500 V / 500 mA)**

- a) Output voltage: 10 – 300 V in 1v steps
- b) Output current: 4 – 400 mA
- c) Output accuracy: ±1%
- d) Output Power: 75W max
- e) Timing: 1 – 999 min fully adjustable
- f) Display: 3-digital LED
- g) Type of output: Constant voltage or Constant current
- h) Pause/resume function: Yes
- i) Operation conditions: 0-40°C, 0-95% humidity
- j) Safety features: No load detection, sudden load change detection, Overload / short circuit protection.
- k) Certificate: CE

**Item No. 2:** Vertical freezer

**Technical Specifications:**

- a) Convertible vertical freezer (-18°C/4°C)
- b) Volume: 394 L / 415 L / 478 L
- c) Efficiency: 3 star, Twin cooling, power freeze, digital display, stabilizer free operation (100v – 300v)
- d) Anti-bacteria protector, deodorizer
- e) Door alarm, toughened glass shelves

<b>Terms and conditions</b>
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1. Price are to be quoted preferably in INR, and inclusive all taxes / charges. Rates quoted should be valid for acceptance for at least 6 months from the date of submission to the office of the university.
2. The materials should be of reputed brand. The items should be strictly in conformity with the technical specifications mentioned in the tender notice. However, better or higher specification may be preferred.
3. The University reserves the right to select the brand at its own discretion. The University is not bound to accept the lowest rate and reserve the right to accept or reject any or all the quotation without assigning any reason whatsoever.
4. The appropriate purchase committee will open and examine all the bids. During examination of the bids, the purchaser may at its discretion ask any bidder for clarification of its bid over telephone or e-mail. If required, the Purchase committee in its discretion may go for the Price negotiation for any bidder; however, this post bidding negotiation may not be applicable for all the bidders.

5. Comprehensive onsite warranty for 24 months or above from the date of installation. The bidders should provide details of Standard Warranty available.
6. Items should be delivered within 45 days after placing the formal order, failing which the order shall stand cancelled.
7. The supplier shall be liable to such penalties as the university may decide in case of failure on the part of supplier to complete the supply of the items within such period as maybe specified in the supply order.
8. Onsite delivery and installation by the supplier of the system or their authorized vendor. No extra cost will be paid by the Purchaser for delivery, clearance and installation. However, Valid DSIR certificate will be provided by the university if necessary.
9. The University will not accept any substandard articles under any circumstances.
10. Payment due to the supplier will be made through the R.T.G.S. direct to the party bank account.
11. A vendor may submit quotation for a single item or for both. GST registration must be submitted along with the quotation.
12. The vendors must submit up to date documents relating to (a) GST (b) Trade License (c) P.Tax and (d) Income Tax.
13. Quotation name/number/date should be mentioned on top of the envelope.
14. The quotations must be submitted to: **Prof. Koushik Ghosh**, PI, DBT, Govt. of India sponsored Project, Department of Zoology, The University of Burdwan Golapbag, Burdwan 713104 (W.B), India.
15. **The last date of submission of the quotation is July 13, 2020 at 12 noon.**

(Prof. Koushik Ghosh)  
*Principal Investigator*  
DBT Project No. BT/PR28574/AAQ/3/920/2018