



Ref. No. DHESTBT /RB/02

Date: 25.09.2018

TENDER NOTICE

Sealed quotations are hereby invited from the authorized vendors for supplying the following Instrument for Research Project [Memo. No. 30 (Sanc.)-BT/ST/P/S&T/2G-48/2017; dated: 07.02.2018 sponsored by Department of Higher Education, Science & Technology and Biotechnology (Biotech.), Govt of West Bengal, under **Professor Rajib Bandopadhyay** (PI). Authorized parties are hereby requested to submit their quotations including the current Trade License, GST registration certificate, Service Tax Registration Certificate, PAN No., Copy of Registration Certificate with Statutory Authorities and other credentials **within 15 days** from the publication of this notice in a sealed envelope addressed to the undersigned. The University is not bound to accept the lowest rate over technical superiority and reserves the right to cancel any item/ quote or all the quotations without assigning any reasons thereof. The offer price for every item must be including GST mentioning GST % separately.

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Technical Specifications for instruments:

- i. Laminar airflow,**
- ii. Shaker Incubator, and**
- iii. Gel Electrophoresis system with power pack**

i. Incubator Shaker

▪ Specification:

1. The system should be microprocessor controlled and user-friendly control system.
2. The system should be equipped with large, easy to read display screen.
3. The system should have temperature range from +5°C to 65 °C.
4. The system speed should be 40 - 160 rpm
- 5 The fluctuation/variation at 37°C should not be more the 0.1°C /0.5°C
6. The system should have orbital shaking motion
7. Air circulation by a fan to maintain temperature uniformity.
8. System should have timer of up to 1 min to 999 Hrs.
9. The system should have three-point temperature calibration
10. The system should have the Corrosion resistance stainless steel interior and mild steel powder coated exterior.
11. The system should have internal lighting.
12. The system should have Smooth start and smooth stop function prevents chemical spills from flasks and Easy-access drain system to clean up the spills.
13. The system should be quoted with Universal slide out Platform having capacity to holds various size of flask sizes 100ml, 200ml 250 ml, 500 ml clamps each
14. Electronic and mechanical components should be enclosed, protected from accidental spills.
15. The system should operate at 230V, 50 Hz AC power
16. The system should be supplied with Retractable foot caster for easy mobility during installation or relocation.
17. The system should be supplied with all the accessories required to function in the main offer (not an optional accessories Ex. Slide out platform, Clamps, test-tube racks castor wheels etc)

ii. Laminar Air Flow Cabinet

▪ Specifications:

- Design: laminar flow cabinet
- Size : 2 x 2 x 2 ft , 304SS interior, powder coated exterior Door fully closing with hinged sash. Support stand, solid one piece dished work surfaces
- Certification:
- Should be designed to meet class 100 condition with work zone
- Filters: HEPA filter, (99.99% efficient on particles 0.3 micron)
- (efficiency of >99.999% at 0.1 to 0.3 micron sizes) provided with pre-filter)
- Light: UV and sufficient illumination for work space
- Gauges: For monitoring the condition of all HEPA filters as well as work space.
- Power Supply: Should include 210-240V/50-60 Hz

iii. a. Vertical gel electrophoresis system , 2 gels

- **Specification :**
- Number of gels : 2
- Hand cast gels : cast using spacer plates
- Glass plates size (W x L) : Short plates : 10.1 x 7.3 cm
- Spacers plates : 10.1 x 8.2 cm
- Gel size (W x L) : hand cast : 8.3 x 7.3 cm
- Total buffer volume for 2 gels : 700 ml
- Total buffer volume for 4 gels : 1000 ml
- Typical run time for SDS PAGE : 35 – 45 min at 200V constant
- Dimensions (L x B x H): 12 x 16 x 18 cm
- Weight : 1.0kg

b. Horizontal gel electrophoresis system, gel size: 15 x 10 cm for 10 – 100 samples

- **Specification :**
- Gel size : 15 x 10 cm
- Sample output : 10 – 100 well
- Buffer volume : 1200 ml
- Cell size : 33.5x 20 x 10 cm
- Distance of electrodes : 25 cm

c. Electrophoresis power supply, 500V / 800 mA, 300 W, with timer

- **Specification :**
- Display: 2.8” LCD
- Output voltage / Inc: 500 V / 1 V
- Output current / Inc: 800 mA / 1mA
- Output watt / Inc”: 300 W / 1W
- Operating constant :voltage or current or power
- Control : Microprocessor control
- Program storage : 30 programmed file
- Program multi step : up to 6 steps
- Output sockets :Four (04)
- Timer : Constant mode : 1 – 9999 mummies with alarm / continues
- Programmable mode : 1 – 999 mummies with alarm / continues
- Safety devise : No load detection , over voltage / current and watt protection
- Crossover : yes
- Dimension : 180 x 305 x 95 mm (L X B X H)
- Weight : 2.5 kg (approx)
- Rated voltage : 100 – 200 V

Terms and conditions:

- Minimum 12 month warranty must be provided from the date of installation
- Price must be quoted in Indian Rupees & FOR Destination basis (including all taxes). No other currency will be accepted. 100% payment after successful installation.
- The items must be quoted strictly as per the specifications mentioned above.
- In case of all items, quoted prices should be destination price.
- The last date for submission of the quotation is within **9th October, 2018.**
- DSIR Certificate will be provided (if required).
- Vendor must agree to install the instrument at their own cost in Burdwan University.