



NORTH EASTERN HILL UNIVERSITY
Department of Biotechnology & Bioinformatics
Shillong : Meghalaya - 793022

No. : F. 16-7/BTBI/DST-FIST/Equip./2017-18

Date: 21/06/2018

NOTICE INVITING QUOTATIONS

Sealed Quotations are invited from reputed manufacturers/authorized agents for supply and installations of the following equipments as per the specifications listed below:

A. REAL-TIME PCR

- 1) With your Real-time PCR platforms, we should get true value with excellent performance, reliability, and world-class support. The machine should be designed for compatibility and the flexibility of unlimited real-time chemistry choices (both TaqMan and SYBER Green assay), upto 5-target multiplexing, gradient enabled and should provide easy-to-use software for absolute and relative quantitation.
- 2) 96 x 0.2 ml tubes Sample capacity with 5°C per second Maximum Ramp rate.
- 3) One 2 KVA online UPS
- 4) Compatible Laptop : Processor – i5, HDD- 1 TB , RAM – 4GB or more
- 5) Startup consumable including SYBER Green for at least 300 rxn
- 6) No extra charge for clearing and forwarding / transportation from Kolkata Airport to NEHU, Shillong.

B. MOLECULAR IMAGER GEL DOCUMENTATION WITH CHEMILUMINESCENCE

- 1) Gel documentation system suitable for Chemi-luminescence , UV and Fluorescence System Configuration-
- 2) Camera – 16 bit CCD with resolution more than 6 megapixels,
- 3) Dynamic range - >3 orders of magnitude
- 4) Lens – f/0.95 or better, 8.5-51mm, motorized zoom
- 5) Filter position – 3 or more (chemiluminescence, fluorescence- 2)
- 6) Illumination modes – Trans-UV, white and epi-white lights
- 7) Multi user Gel Analysis software
 - a) Capable of imaging and analysing 1-D electrophoresis gels, dot blots, slot blots and colony count
 - b) Molecular weight determination
 - c) Band/lane matching analysis with comparative dendrogram creation, background subtraction

- 8) 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.
- 9) One 2 KVA online UPS
- 10) Compatible Laptop : Processor – i5, HDD- 1 TB , RAM – 4GB or more
- 11) No extra charge for clearing and forwarding / transportation from Kolkata Airport to NEHU, Shillong.

C. ROTARY EVAPORATOR

- 1) Sample Volume Range:50ml to 2000ml
- 2) Rotation Speed:20~260rpm
- 3) Rotation Speed display: LCD
- 4) Clockwise and anticlockwise rotation possible.
- 5) Hand lift
- 6) Supply voltage:220V±10%, 50Hz±5%
- 7) Lifting Stroke: 150mm
- 8) Rotatable Range of Joint Head : 0~60°
- 9) Motor Power:40W
- 10) Dimension (L×W×H) : 380mm×340mm×692 mm

Heating bath:

- 1) Bath Temperature Range : Ambient~180°C
- 2) Temp.Control Mode: PID /LCD display
- 3) Overheat cut-off protection:190°C
- 4) Temperature Stability:±1°C (water) ±2°C (oil)
- 5) Bath Volume :5L
- 6) Material bath: stainless steel
- 7) Heating Power:1300W
- 8) Power off automatically in case of no liquid in bath
- 9) Rotation Flask:1000ml
- 10) Collection Flask : 1000ml
- 11) Separate heating bath, easy for maintenance.

Condenser :

- 1) Vertical type water refrigerating
- 2) Seal Ring Set
- 3) Fluoro-rubber tube/m , ID 7mm Thick 2.5 mm /2 meters
- 4) Woulff bottle - 1

Vacuum Pump:

- 1) Power Supply: 220V±10%,50Hz±5%,180W
- 2) Pumping Speed: 18 L/min
- 3) Vacuum Pressure: 20 mbar
- 4) Surface and parts with anti-corrosive coating.

- 5) Display : Analogue display of vacuum.
- 6) Power: 30 W.
- 7) Dimension (L×W×H): 29cm×16cm×24cm
- 8) Weight: 3 kg
- 9) Noise : ≤ 42 dbal.
- 10) Ambient temperature range (operation) : 10'C- 40'C
- 11) Compact and light, excellent performance.

Recirculating water chillers with accurate and constant cooling conditions in all environments.

Specification:

- Cooling Capacity: 500W@25°C
- Temp.Control Mode: Digital PID
- Cooling Mode: Compressor Cooling
- Temperature Stability: ±0.3°C
- Temperature Range: -5 - 35°C
- Pump: Pressure Pump
- Pump Capacity: 3.5L/Min@0.5bar
- Bath Capacity: 1.8L
- Refrigerant: R134A
- Dimensions (L×W×H): 480mm×200mm×480mm (approx)
- Power Supply: 220V ±10%, 50Hz, 2A, 1phase

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Programme Coordinator
DST-FIST Programme
Department of
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Head
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NEHU, Shillong - 793 022

General Terms and Conditions

- 1) All interested suppliers/ vendors/ manufacturers shall send their bids to the following address: Head, Department of Biotechnology & Bioinformatics, North-Eastern Hill University, Shillong 793022)
- 2) The quotation should be submitted by post within 21 (twenty-one) days of issue of this notice dated 21-06-2018. Bids received after due date by post will not be considered (the university/addressee shall not be responsible for any postal delay).
- 3) Separate technical and financial bids should be submitted in a sealed envelope.
- 4) The Department Purchase Committee (DPC) can accept or reject the quotations received without assigning any reasons to the bidders. No queries in this regard would be entertained.
- 5) No separate tender paper will be issued from the office: one should only download the specifications/list from the university website.
- 6) The rates should be quoted on basis FOR Head, Department of Biotechnology & Bioinformatics, North-Eastern Hill University, Shillong 793022.
- 7) Items of foreign origin should have insurance upto installation on site.
- 8) The rates should be inclusive of all taxes, freight charges and applicable tax as per norms should be clearly indicated.
- 9) Quoted rates should be valid at least for a period of 6 (six) months.
- 10) The rates should be quoted along with supporting documents of specifications and technical features.
- 11) Details of availability of after sales support and warranty period shall have to be furnished during application through post only to address mentioned below.
- 12) The item should be delivered, installed and free training should be given without any additional costs.
- 13) Payment will be made to successful bidders only upon completion of supply and installation of the equipments and bills in triplicates have to be submitted for settling of payment.

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