



# हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

(केन्द्रीय विश्वविद्यालय अधिनियम, 2009 के अधीन स्थापित)

निविदा सं. 05&06 / 2014 / हि.प्र.के.वि. / एनआईटी

दिनांक : 12.04.2014

## टेंडर आमंत्रण सूचना

निम्नलिखित की आपूर्ति एवं संस्थापना के लिए तकनीकी और वित्तीय बोलियों के साथ (दोनों बोलियां अलग-अलग लिफाफों में) मोहरबंद टेंडर आमंत्रित किये जाते हैं :

1. पर्यावरण विज्ञान प्रयोगशाला हेतु हाई-परफॉरमेंस लिक्विड क्रोमैटोग्राफी सिस्टम एवं आयन क्रोमैटोग्राफी सिस्टम

2. कम्प्यूटेशनल बायोलॉजी एंड बायोइन्फार्मेटिक्स प्रयोगशाला के लिए इक्विपमेंट्स निबंधन एवं शर्तों सहित टेंडर फॉर्म को विश्वविद्यालय की वेबसाइट [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in) से डाउनलोड किया जा सकता है।

इच्छुक/पात्रता रखने वाली पार्टियों द्वारा निर्धारित फॉर्मेट में टेंडरों के साथ प्रोसेसिंग शुल्क के रूप में 500/- रुपये का डिमांड ड्राफ्ट और टेंडर दस्तावेज में (प्रत्येक मामले में) यथानिर्धारित बयाना राशि 05.05.2014 (अपराहन 03.00 बजे) तक जमा करायी जाए। टेंडरों को टेंडर दस्तावेज में इंगित तिथि, स्थान और समय पर खोला जायेगा।

**वित्त अधिकारी**

पोस्ट बॉक्स – 21, धर्मशाला, जिला काँगड़ा, हिमाचल प्रदेश – 176215

ईमेल : [brdhiban1955@gmail.com](mailto:brdhiban1955@gmail.com), दूरभाष सं. 01892-229330, 229573, फैक्स सं. 01892-229331

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय  
Central University of Himachal Pradesh

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Web site: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

TENDER DOCUMENT FOR  
SUPPLY & INSTALLATION OF EQUIPMENTS  
FOR  
COMPUTATIONAL BIOLOGY AND BIOINFORMATICS LABORATORY  
SCHOOL OF LIFE SCIENCES, CENTRAL UNIVERSITY OF HIMACHAL PRADESH,  
TEMPORARY ACADEMIC BLOCK (TAB), SHAHPUR KANGRA-176 206, HIMACHAL PRADESH



REFERENCE NO.	<b>06/2014/CUHP/NIT</b>
DATE OF ISSUE OF TENDER	<b>12.04.2014</b>
LAST DATE FOR RECEIPT OF TENDER DOCUMENT	<b>05.05.2014 (3.00 PM)</b>
TIME AND DATE FOR OPENING OF THE TENDER (Technical bid)	<b>05.05.2014 (4.00 PM)</b>
PLACE OF OPENING OF THE TENDER:	Office of the Dean, School of Life Sciences , Central University of Himachal Pradesh, Temporary Academic Block, Shahpur- Kangra (HP) 176206,
ADDRESS FOR COMMUNICATION:	The Dean, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur- Kangra (HP) 176206,

**SIGNATURE OF THE QUOTEE  
WITH SEAL**



# हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

## Central University of Himachal Pradesh

पोस्ट बॉक्स नं.- 21, धर्मशाला, जिला - कांगड़ा, हिमाचल प्रदेश – 176 215

PO Box: 21, DHARAMSHALA, DISTRICT KANGRA, HIMACHAL PRADESH – 176215

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Web: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

### NOTICE INVITING TENDER FOR SUPPLY & INSTALLATION OF EQUIPMENTS FOR COMPUTATIONAL BIOLOGY AND BIOINFORMATICS LABORATORY, AT SCHOOL OF LIFE SCIENCES, CENTRAL UNIVERSITY OF HIMACHAL PRADESH, TEMPORARY ACADEMIC BLOCK (TAB), SHAHPUR, DISTRICT KANGRA-176 206, HIMACHAL PRADESH

The sealed tenders / proposals are hereby invited from the reputed manufactures/ stockists/ authorized dealers/ suppliers for **supply & installation of the equipments** given below for Computational Biology and Bioinformatics Lab., School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur, District Kangra- 176 206, Himachal Pradesh:

Item No.	Name of Equipment	Quantity Required	Earnest Money Deposit (EMD) for tender in Rupees
1	-80 °C deep vertical freezer	1	25000
2	-20 °C deep vertical freezer	1	12500
3	4 °C vertical freezer	1	5000
4	Spectrophotometer	1	30000
5	pH meter	1	12500
6	Sensitive weighing balance	1	6250
7	Table Top centrifuge with adaptors (refrigerated)	1	35000
8	Vortex	1	2000
9	Gel rocker	1	4000
10	Micropipettes set	2	15000
11	Electrophoresis gel units (vertical)	1	8750
12	Electrophoresis gel units (horizontal)	1	4000
13	Electrophoresis power pack	1	10500
14	Hot plate with magnetic stirrer	1	4000
15	Microwave Owen	1	500
16	Shaker Incubator (variable temperature range)	1	12500

**Note: Detailed specifications given in Appendix 'A' to 'P'**

The interested parties may send their Tenders/proposals on the prescribed application form as per **ANNEXURE – I (Technical Bid)** along with the quoted rates as per **Annexure – II (Financial Bid)** with a non-refundable processing Rs 500/- for each bid in shape of Bank Draft and Earnest Money for each item as indicated against the item in the shape of Account Payee Bank Draft or F.D.R duly pledged in the name of Finance Officer, Central University of Himachal Pradesh, Dharamshala or a Bank Guarantee (Annexure III), for equal amount furnished on prescribed Proforma, from any commercial bank. **The tenders received without processing fee and EMD will be rejected straight way.**

The documents should be enclosed in separate envelopes of appropriate size each of which should be sealed.

a) **ENVELOPE NO. 1:** Should contain (i) covering letter (ii) Technical Bid (Annexure - I) duly signed and stamped and (iii) Requisite Fee (Processing fee and Earnest Money).

b) **ENVELOPE NO. 2:** Should contain the Financial Bid duly signed, stamped and super-scribed as “Financial Bid Annexure – 2”.

c) **ENVELOPE NO. 3:** Should contain Envelope 1 and 2.

Note: The Processing fee and Earnest Money should not be mixed i. e. Demand Draft for Processing fee and Demand Draft/ FDR/Bank Guarantee for EMD should be prepared for payable separately.

The inner and outer envelopes should be addressed to **The Dean, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, District – Kangra, H.P – 176206** and should clearly mention “**Tender for supply & installation of (name of equipment) equipment(s) for Computational Biology and Bioinformatics Laboratory, School of Life Sciences, Central University of Himachal Pradesh, Temporary Academic Block (TAB), Shahpur, District Kangra- 176 206 Himachal Pradesh**”. The inner envelopes should also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared late. If the outer envelope is not sealed and marked as required, the University will bear no responsibility for the bids misplaced or premature opening. All Tenders/proposals should be made in English and should be written in both figures and words. Tender documents can be downloaded from the website: **www.cuhimachal.ac.in** of the University.

Tenderers/dealers interested to participate can view the complete set of tender documents including specifications of the instruments on University Website: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in).

Any subsequent amendment modifications/ Corrigendum, if any, will be uploaded only on the website.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise.

The Central University of Himachal Pradesh, reserves the right to select the item (in single or multiple units) or to reject any quotation wholly or partly without assigning any reason.

All tender documents complete in all respects and in sealed cover should be sent through, speed post or registered post only to **The Dean, School of Life Sciences** on the below given address so as to reach not later than **3.00 pm on 05.05.2014**. All tender documents received after this specified date and time shall not be considered. The postal address is:

**The Dean, School of Life Sciences,  
Central University of Himachal Pradesh,  
Temporary Academic Block, Shahpur,  
District – Kangra, H.P – 176206**

The Tenders and the Technical Bids will be opened in the office of Dean, School of Life Sciences, Temporary Academic Block, Shahpur, Distt. Kangra- 176 206, Himachal Pradesh on the scheduled date and time in the presence of the tenderers or their authorized representatives. The bidders or their authorized representative may also be present during the opening of the Technical Bid, if they desire so, at their own expenses.

The Financial bid of only those bidders will be opened whose technical bids are found suitable by the committee constituted for the purpose. Date and time of opening of price bids will be decided after technical bids have been evaluated by the committee. Information in this regard will be uploaded on University web site/ Notice board. In exceptional situation, an authorized committee may negotiate price with the qualified bidder quoting the lowest price before awarding the contract.

**Clarification:**

In case any tenderer/bidder requires any clarification regarding the tender document, they may contact **Dr. Yusuf Akhter, Assistant Professor**, Centre for Computational Biology & Bioinformatics, Central University of Himachal Pradesh, Temporary Academic Block, Shahpur, Distt. Kangra (HP)

**DETAILED TERMS AND CONDITION**

1. All rates quoted should be F.O.R destination and should be net i.e. including packing weighing, insurance and forwarding charges. The sales tax will however be extra in case quoted by the supplier.
2. Sample wherever required shall be submitted by the Firms duly signed/stamped/tagged indicating specifications, make/brand so as to reach this office by the date and time fixed for opening of tender. Samples should be sent against pre-paid RRs/G.T.R.S. 'To-pay consignments' will not be entertained and sample will remain undelivered with railway authorities and transport companies at the risk of the Firm.
3. In case where full specifications are not incorporated or where specifications are such that the supplier cannot quote for, the supplier's own specifications should be stated in full for the articles quoted for. Any illustrative literature available, duly stamped and signed, should also accompany.
4. In all cases the country of manufacturers/particulars of manufacturer and unit of measurement etc., must prominently be stated. The unit should usually be the one stated in the inquiry.
5. All containers, packing cases, bags etc. will be deemed to be non-returnable unless specifically stated otherwise in the tender.
6. The area of supply is throughout Himachal Pradesh where the activities of the University are located and the suppliers shall have to execute each order placed by any of indenting officers of the University individually, irrespective of its quantity/numbers.
7. All supplies should be made within a fortnight of supply order or **by the date stated in the order whichever is earlier**. In case it is brought to the notice of the undersigned that the supply has not been made within the prescribed period a penalty @ 0.5% of the delivered price of the delayed goods for each week, with maximum limit of 10% would be deducted from the bill or the tender will be cancelled and Performance Security will be forfeited. The University shall then be at liberty to make the purchase from any other source at supplier's risk and the University shall be free to blacklist the firm/suppliers.
8. No price increase will be allowed during the currency of the contract and rates approved shall remain in force during the currency of the rate contract.
9. The quantity of supply can be increased or decreased at the discretion of the University.
10. (i) The authorized dealers/suppliers once notified by the manufacturer/proprietors shall not be allowed to be changed in between the period of contract.  
(ii) Sufficient number of samples according to the approved pattern for supply to each of the INDENTING OFFICER and two spares will have to be supplied and got approved if considered necessary by this office.  
(iii) The inspection of goods will be carried out by the consignee at the destination and rejected goods will have to be removed by the party at its own cost within 10 days of dispatch of advice from the indenting office failing which the goods will be at supplier's risk which may be disposed off by the University by public auction, if so considered.
11. (i) The rejected goods will have to be replaced within 15 days of the dispatch by the Indenting Officer's registered notice intimating that the goods have been rejected, failing which the Indenting Officer will be entitled to make purchases at the risk and cost of the Contractor/Firms without any further reference to them.  
(ii) If the supplier claims that the goods supplied by him/them are strictly according to the approved samples/specifications, he may file an appeal to the Vice-Chancellor of the University within five days of the receipt of the Registered Notice from the Indenting Officer/Consignee. Where such appeal have been filed, the Indenting Officer /Consignee will hold the goods with him till the final decision of the Vice-Chancellor.

12. **All quotations/Tenders should be accompanied with an earnest money as indicated against the items in the shape of Account Payee Bank Draft or F.D.R duly pledged in the name of Central University of Himachal Pradesh, Dharamshala or a Bank Guarantee for equal amount furnished on prescribed Proforma, from any commercial bank. The EMD shall be returned in case the offer of bid is not accepted by the University.**
13. The supply must be completed satisfactorily within the stipulated period failing which the Indenting Officer concerned will have the right to purchase or allow to purchase the goods at supplier's risk, provided that where goods are not supplied according to the specifications and on account of urgency of the demand, the Indenting Officer decides to retain the inferior goods, the supplier will be entitled to receive payment not at the contract rate but at the rate fixed by the University with due regard to the quality of the material supplied.
14. The quotations may be accepted in part or whole.
15. **The University reserves the right to enter into parallel contract with two or more firms and to enter into negotiation with the concerned firm and to accept or reject any tender without assigning any reason, if so required.**
16. The rates and units shall not be over written, amount shall be both in figures and words. All corrections must be signed in full by the Firm.
17. In case of goods controlled by the Government, the quotations must be sent subject to the control rates and the other conditions and supplier will be paid at the controlled rate or on the rate offered by the supplier whichever is lower.
18. Any dispute arising out of the deal shall be subject to the decision of the Vice-Chancellor of the University whose decision shall be final. Settlement of all disputes will be made within the jurisdiction of Central University of Himachal Pradesh at Dharamshala.
19. **The University reserves the right to accept or reject any/all the tender without assigning any reason.**
20. (i) A tenderer shall have the right to be heard in case it is felt that proper procurement process is not being followed and /or this tender has been rejected wrongly.  
(ii) The tenderer may be permitted to send written representation which may be examined by the Finance Officer or an Officer to be designated by the Vice Chancellor.  
(iii) The tenderer could make such representation within one month from the date of placement of contract and the said representation shall be decided /replied within one month from the date of its receipt.
21. The signature on the tender/quotations and samples etc. sent therewith will be deemed to be the authorized signature of the Firm.
22. **The tenders received after due date or without the earnest money and processing fee or without samples wherever required shall stand cancelled.**
23. In case it is agreed by the University and is incorporated as a conditions of the contract, to accept supply through bank, the bank charges accruing thereon, shall be borne by the supplier. No request and or payment above 75% through bank shall normally be accepted. However, in special circumstances depending upon the merit of the case and or credibility of the tenderer/bidder, the payment upto 90% through bank will be considered at the time of purchase of the material.
24. **Any term/condition given by the supplier/firm, in contravention to the terms contained in the tender shall not be acceptable and shall be treated as null and void.**
25. In the event of tender, being accepted, the quotations will be converted into a contract which will be governed by these terms and conditions.
26. The above conditions will be enforced unless written order of the Controlling Officer/Competent authority is obtained relaxing any specific condition in any particular instance.
27. The tender not strictly in accordance with the above conditions are liable to be rejected.
28. The tender shall be on the prescribed tender Form. The rates should be quoted against each item in the tender form. The special terms, if any, should be added on a separate sheet with tender.

29. The successful tenderer/firm will have to execute an agreement on the non-judicial paper of the value of Rs. 100.00 (specimen enclosed for ready reference) duly signed and stamped.
30. On acceptance of the tender, the tenderer/firm shall furnish Performance Security amounting to 5% of the total amount of the ordered items/equipments, in the shape of Fixed Deposit Receipt (FDR) duly pledged in the name of the University or Bank Guarantee for equal amount on the prescribed proforma, to Central University of Himachal Pradesh. This performance security must be deposited within 5 days of the award of the contract and the same shall be in addition to the BD/EMD already deposit, which will be converted into performance security deposit on award of the contract. No interest will be paid on the performance security amount.
31. TDS and other taxes as applicable will be deducted from contractor's bill as per Govt. Instructions from time to time.
32. **Billing for the supply of the equipment should be done directly in the favour of CUHP to avail the benefits of exemption of Custom Duty/ Excise Duty, if the equipment is imported item or any excise duty is payable on sale of said equipment within India by the sole manufacture/ Dealer of said equipment.**

**Finance Officer**  
**Central University of Himachal Pradesh**

**READ AND ACCEPTED**  
**Signature of Quotee(s) with seal and Date**

**Technical specifications**

**Item No. 1: -80 °C Deep Vertical Deep Freezer**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- CFC-free refrigerants
- Inner chamber should be made of Stainless Steel.
- Internal Capacity should be in the range of 400-450 litres
- 5 Compartments with 4 adjustable shelves
- Provide three fully loaded shelves with racks and boxes.
- Lowest attainable temperature of -80°C at the ambient temperature range of 30-40°C.
- Membrane Keypad eye level control panel.
- Two or more compressors each with power efficient (low power consumption) capacity up to 1 hp.
- Battery backup: Activates alarms and display during power outages.
- Time delay and temperature delay mode for second compressor.
- High low cut protection facility for both compressors.
- Power Consumption should not more than 15KWH/day.
- Alarm for: Power failure, high low temperature, low battery, filter clean and fault analysis.
- Alarm and temperature should be adjustable within 1 °C increments.
- Inbuilt Diagnostic system.
- Lockable on off switch and alarm.
- Password for set point security.
- Access Port should be there.
- Warranty: Compressor-5 or more years; Rest of system: 2 or more years.
- CE (European Conformity) and UL (Underwriters laboratories) certified.
- System should be supplied with CO<sub>2</sub> backup in case of power failure with at least two CO<sub>2</sub> cylinders.



**Item No. 2: -20 °C Deep Vertical Deep Freezer**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Electrical specifications : 220-240 Volts, 50 Hz. SINGLE PHASE
- Extremely efficient PUF insulation to minimize heat loss
- High-tech solid state digital indicator-cum controller
- Inner Chamber Material : Stainless Steel 304 (Non Corrosive, Non Magnetic)
- Low Temperature up to -20°C or less.
- Outer Body Material : Powder Coated CRCA Steel
- Stainless steel inner chamber
- Use forced air circulation to maintain internal conditions
- It must contains (1) lockable insulated door
- It have capacity of 275-300 L
- It must have manual defrost
- Instrument must have (1) ¼ hp compressor
- Instrument must contains 4 baskets and 2 pull cover drawers
- Digital temperature control with Low battery alarm and mute button for alarm.
- Rapid freeze feature for fast cool down
- Instrument must be CE (European Conformity) certified.

**Item No. 3: 4 °C Deep Vertical Freezer**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Bacteria-resistant powder coating
- One lockable dual pane glass door
- Capacity: 200-250 L
- Temperature Range: +1°C to +12 °C
- Drawers: Optional
- Voltage: 115 V
- Instrument must be CE (European Conformity) certified.

**Item No. 4: Spectrophotometer**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Monochromator based spectrophotometer for absorbance and turbidity measurements of Curette and 96- and 384- well plates.
- A reference channel system to compensate Xenon lamp flash to flash variations.
- Wavelength range: 200-1000 nm with 1 nm steps
- Read out range: Up to 4 Abs.
- The instrument should be able to complete full spectrum of sample in less than 15 sec.
- The system should have inbuilt internal software for the measurement of samples with plates. The inbuilt software should be able to perform all calculations and save the data within the system. The data export should be through USB device
- The instrument should have the ability to choose free selection of plates from any manufacturer.
- Computer controlled software should be able to display the results in the table or list format. The results can be exported in excel or PDF format. The software should be able to perform parallel line assays.
- The instrument should be provided with computer and printer

**Item No. 5: pH meter**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Automatic buffer recognition
- Automatic electrode test is run during calibration
- Automatic temperature compensation
- Easy-to-understand symbols and clear liquid-crystal display ensure error-free reading
- Measurement Mode(s): pH, mV, Temperature
- Measurement Resolution: 0.01 pH
- pH Range: 2.00 to 16.00 pH
- Temperature Compensation: Automatic
- Waterproof

**Item No. 6: Sensitive Weighing Balance**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Readability: 0.01/0.1mg
- Pan size: 80 mm diameter
- Response time: <6/3 sec.
- High precision
- Max Capacity Fine Range:  $\geq 41$  g or better
- Max. Weighing Capacity: 200-220 g
- Overload protection
- Repeatability: ~0.1 mg
- Stainless steel pan
- Waterproof
- Iso-calibration for fully automatic, motorized self calibration
- Level indicator
- Dynamic Temperature compensation
- Dust cover
- Glass draft shield can be opened from three sides
- Triangular weighing pan for greater surface area
- Bigger digit size for better viewing (~16 mm or more)
- Monolithic weighing technology for better precision
- Two Tare keys
- Dual range (1 to 100 gm with precision of 0.01mg and 100 to 200 gm with precision of 0.1mg approx.)
- AC adapter
- ISO 9001 certified

**Item No. 7 : Table Top Centrifuge with Adaptors (Refrigerated)**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Type: Table top centrifuge for high volume applications
  - Temp. range: -5 °C to + 40 °C or better
  - Fast cool option and stand by cooling
  - Max speed : 13,000 rpm or more, max rcf: 20,000 x g or more
  - Programmable time, temperature and speed with digital display
  - Built in Condensation drain.
  - Ten or more different acceleration and deceleration rates
  - Program memory: 10 or more
  - Built-in rotor identification system
  - Rotor imbalance indicator
  - Buckets, lids and adaptors should be autoclavable.
  - Ability to spin 1.5 ml, 2 ml, 15 ml, 30 ml, 50 ml bottle, Cryotubes (vials and flow cytometry tubes), Micro Titre Plates (MTP), PCR plates, Deep Well Plates and Cell Culture Plates, Combi slide adaptors.
  - Having provision of fixed angle rotor for 6 or more 15ml, 30ml and 50 ml falcon tubes and U-shaped tubes rcf 18,000 x g or more.
  - Ability to spin Horizontal centrifugation at rcf 16000 g or more.
  - Comprehensive warranty for one or more year.
  - Rotors and adaptors to be supplied along with centrifuge with following specifications-
1. Swing bucket rotor, 4000 rpm and rcf 2900 x g or more; with following adapters:
    - a. 4 x 500 ml bottles.
    - b. 16 or more 50 ml tubes/falcons and U Shaped tubes.
    - c. 36 or more 15ml tubes/falcons and U shaped tubes.
    - d. 2 x 96 well MTP Plates (PCR Plates).
  2. Fixed angle rotor for 6 x 85 ml tubes with adapters for 15 ml, 50 ml falcon and round bottom tubes.
  3. 24 x 1.5/2.0 ml or more.

**Item No. 8 : Vortex**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Operating mode: Continuous or touch modes
- Electrical: 120V 50/60Hz, 1.2A, 150w; 230V 50/60Hz, 0.6A, 150w
- Orbit: 4.9mm
- Speed knob: variable 1 to 10 dial marks
- Speed Range, 120V: 300-3200rpm; 230V: 300-2500rpm
- Variable speed control

**Item No. 9 : Gel Rocker**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Dimension: 12.8 x 14.2 x 5.7 in (W x D x H)
- Input Voltage: 230V, 50Hz, A.C. Supply
- Maximum load: ~5 kg
- Platform Size: 25 x 25 cm
- Speed controller: Analogue
- Speed settings- 5 to 120 tilts/ min.
- Timer: Digital
- Motion: rocking
- Can be use in incubators and up to ~70 °C in controlled environment.



**Item No. 10 : Micropipettes Set**

**Quantity required:** 2(Two)

**Technical (desirable) specifications**

- Spring Loaded Tip Cone for connecting tips very tightly
- Adjustment opening for adjusting pipettes to a specific liquid and volume.
- Control Button with very low operating force, Colour indication for pipette volume.
- Tip ejector with very low operating force, positioned for perfect ergonomics.
- Volume Display: 4 Digits with magnifier.
- Perfect Piston System.
- Very easy removable lower part for cleaning pipette
- Fully Autoclavable
- Should be CE and IVD Certified
- 1 or more years Warranty
- Pipettes of volume range 0.1 – 2.5 µl, 2– 20 µl, 10 – 100 µl, 1– 1,000 µl should be provided.

**Item No. 11 : Electrophoresis Gel Units (Vertical)**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Mini dual electrophoresis unit ideal for hand cast gels provided with complete gel casting unit.
- Active gel dimension of 8 cm x 8.5 cm (W x H) and plate dimension of 10 cm x 10 cm x 0.2 cm (W x H x T).
- Maximum Sample capacity: 2 x 20.
- Buffer volume in Inner buffer chamber capacity of 90 ml and gel tank with 1200 ml.
- Can run at 100 – 150 V, Current 10-15 mA.
- Should be compatible with 10 cm x 10 cm commercially available precast gels.
- The unit should include buffer chamber safety lid.
- Unit should have colour coded combs and spacers.

**Item No. 12 : Electrophoresis Gel Units (Horizontal)**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Unit should be ideal for analytical and preparative studies of nucleic acids.
- Gel dimensions must be 12.8 cm x 15 cm (W x L).
- Unit should have 4 casting gates.
- Unit must have a buffer capacity of approx 900 ml.
- Unit should have 4 comb slots. Combs should be color coded and height adjustable
- Unit must have 2 mm x 1 mm, 16 well combs, and colored loading strips.
- System should have migration distance of 3.5 cm between comb slots
- Unit should be with removable casting tray with UV – Transparent made up of acrylic material.
- System should have side handlers for safe and easy transportation.
- Unit should have dimensions 20 cm x 32 cm x 7 cm (W x L x H)
- Optional silicon casting gates should be there to form a leak free seal.

**Item No. 13 : Electrophoresis Power Pack**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Machine should have four out puts for running four electrophoresis units at any given time.
- Should be use for DNA, RNA & Protein electrophoresis.
- Compatible to run both vertical and horizontal electrophoresis units; also should be compatible for using blotting apparatus.
- Programmable output range of voltage 10 -300 V or better, 40-400mA or better current; constant voltage or constant current mode with timer range of 1 min to 99 hr 59 min.
- Should be compact, lightweight & stackable.
- Dimensions should be 19 cm x 25 cm x 8cm.

**Item No. 14: Hot Plate with Magnetic Stirrer**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Advanced microprocessor controls with convenient turn knobs allow quick, precise adjustment and maintenance of speed and temperature.
- Operating Speed: 60 to 1100 rpm or more.
- Safety indicator LED's on the front panel indicate when the heating and/or stirring functions have been activated.
- Temperature Range: [RT + 5°C] to 300°C or more.
- The hotplate/magnetic stirrer model comes complete with a support rod for mounting thermometers and temperature probes.
- With a square 7.5" work surface, and compatible with a wide variety of popular sizes of borosilicate glass beakers, flasks, bottles and other vessels.
- Weight: 2.3 kg approx.

**Item No. 15: Microwave Owen**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- 120 volt operation - 15 ampere
- 5 different power levels plus a hold feature
- Bottom feed microwave using mode stirrer technology for even heating
- Compact microwave – uses minimal counter space
- Fully safety tested including microwave leakage
- Includes adaptor to connect exhaust hose to the microwave
- Mode stirrer gives excellent uniform heating without the need of a breakable turntable common to domestic microwave
- Operates just as a domestic microwave oven using time and power level
- Simple to use touch control pad
- Stainless steel cavity and cover for easy clean up, chemical resistance and long life.

**Item No. 16: Shaker Incubator (Variable Temperature Range)**

**Quantity required:** 01(one)

**Technical (desirable) specifications**

- Speed range: 25 to 400 rpm  $\pm$ 1 rpm
- Temperature Range : 10-80 °C
- Temperature accuracy & Uniformity :  $\pm$  0.3 °C or less
- Controller: programmable temperature, speed and shaking time.
- Electrical motor: Brushless motor.
- Triple eccentric electromagnetic Drive.
- Universal tray with clamps capacity to hold variable sizes (50 ml to 2 litres).
- Moisture proof internal electric outlet installed in chamber
- Provision for shelf (with adjustable height) inside the incubator for incubating petri plates (to be provided by original equipment manufacturer).
- CE (European Conformity) and UL (Underwriters laboratories) certified.
- Facility for future up-gradation for Gassing manifold for direct gassing into containers placed inside the shaker, Photosynthetic light for plant tissue culture.
- Extra clamps to be supplied with the equipments; 50ml, 100 ml, 250 ml: 3 nos. each, 500 ml: 10 nos., 2 litres: 5 nos.

**Note:**

Central University of Himachal Pradesh, Dharamshala is registered with the Department of Scientific and Industrial research (DSIR) for the purpose of availing custom duty exemption in term of government notification no 51/96-customs dated 23-07-1996 and Central Excise dated 01-03-1997 as amended from time to time.



# हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय

## Central University of Himachal Pradesh

पोस्ट बॉक्स नं.- 21, धर्मशाला, जिला - कांगड़ा, हिमाचल प्रदेश – 176 215

PO Box: 21, DHARAMSHALA, DISTRICT KANGRA, HIMACHAL PRADESH – 176215

Phone No.01892-229330, 229573, FAX No.01892-229331

Web: [www.cuhimachal.ac.in](http://www.cuhimachal.ac.in)

### Proforma for Technical Bid for Supply & Installation of Equipments for Computational Biology and Bioinformatics Laboratory

1. Name of firm/agency:.....
2. Registered Address:.....
3. Telephone no:.....
4. Fax no:.....
5. Mobile no:.....
6. Email Address:.....
7. Name & Address of branch , if any:.....
8. Types of Organisation  
(Whether sole proprietorship/Partnership.....Private Ltd etc)
9. Name of Proprietor/Partner/Director of the Organisation /firm

#### Payment Detail

DD NO.....

DD Amount.....

Bank

Name/Branch.....

Sr . No.	Documentary Proof of	Attached Yes/No	Page appendix no If attached
I.	Incorporation/Inception the Agency		
II.	Dealership/Distributor/Supplier/Indian Agent/Foreign Associates Authorised Certificate for the supply of.....		
III.	Name of the Foreign/Indigenous/Principal of the Manufacture of .....machine/plant/Equipment from where these are to be important/Procured for supply		
IV.	Name and Address of the Principal/Manufacture		
V.	Whether on rate contact with the DG&SD		
VI.	PAN NO.		
VII.	CST/ST NO.		
VIII.	Service Tax Registration NO.		
IX.	VAT NO.		
X.	Satisfactory Performance of Supply of.....for last 3 Year from at least three organisation/Institution of repute.		
XI.	Any other relevant information (specify)		
XII.	Technical Specification of the.....		

**Name and Signature**

The Authorised Person of the Firm with seal





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### Proforma for Financial Bid for Supply & Installation of Equipments for Computational Biology and Bioinformatics Laboratory

1. Name of the Organization/Firm.....

PAN No. ....

2. Please attach Proof wherever Possible.

Sr. No.	Name of Article & Specifications	Accounting Unit	Estimated Qty.	Rate Per unit	Remarks
1.	2.	3.	4.	5.	

The Financial bid being submitted has the approval of the .....(Name of the Agency) and I have been authorised to submit it.

**Place:**

**Date:**

**Signature.....**

**Name.....**

**Designation.....**

Note: 1. The rates quoted should be F.O.R destination and should be net i.e. including packing charges, weighing, insurance and forwarding charges.

2. The sales tax will however be extra in case quoted by the supplier.



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### **MODEL BANK GUARANTEE FORMAT FOR FURNISHING BID SECURITY (EMD)**

Whereas.....(hereinafter called the “tenderer”) has submitted their offer dated.....for the supply of..... (hereinafter called the “tender”) against the Purchaser’s tender enquiry No. .... KNOW ALL MEN by these presents that WE.....of.....having our registered office at.....are bound upto the Central University Of Himachal Pradesh (herein after called the “University”) in the sum of .....for which payment will and truly to be made to the said university the Bank binds itself, its successors and assign by these presents. Sealed with the Common Seal of the said Bank this .....day of .....20.....

#### **THE CONDITIONS OF THIS OBLIGATION ARE:**

- (1) If the tenderer withdraw or amends, impairs or derogates from the tender in any respect within the period of this tender.
- (2) If the tenderer having been notified of the acceptance of his tender by the University during the Period of its validity.
  - a) If the tenderer fails to furnish the performance security for the due performance of the contract.
  - b) Fails or refuses to accept/execute the contract.

We undertake to pay the University up to the above amount upon receipt of its first written Demand, without the university having to substantiate its demand, provided that in its demand the University will note that the amount claimed by it is due to it owing the occurrence of one or both the two conditions, specifying the occurred condition or conditions. This guarantee will remain in force upto and including 45 days after the period of tender validity and any demand in respect thereof should reach the bank not later than the above date.

**(Signature of the authorized officer of the bank)**

.....

**(Name and designation of the officer)**

.....

**Seal, name and address of the Bank and address of the Branch.**