



## COTTON UNIVERSITY

Panbazar, Guwahati- 781001

### Notice Inviting Bids

**" NIB No. CU/S&P/2023/14 Dt. August 28, 2023"**

Bids in sealed cover are invited from Original Equipment Manufacturers (OEMs) or their authorized dealers/suppliers/vendors or business partners in dual-bid {techno-commercial and financial} system with respect to procurement of Major Lab Equipments under DBT Builder Project of Cotton University. The deadline for the same is 2:00 P.M. of September 13, 2023. For details, please visit [www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in)

S/d, Registrar

Registrar  
Cotton University  
Panbazar, Guwahati-781001



# COTTON UNIVERSITY

Panbazar, Guwahati-781001, Assam, India

[www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in) :: 0361-2601100/2733530 :: [registrar@cottonuniversity.ac.in](mailto:registrar@cottonuniversity.ac.in)

## Notice Inviting Bids

**" NIB No. CU/S&P/2023/14 Dt. August 28, 2023"**

Bids in sealed cover are invited from Original Equipment Manufacturers (OEMs) or their authorized dealers/suppliers/vendors or business partners in dual-bid {techno-commercial and financial} system with respect to **Procurement of Major Lab Instrument/Equipments** under DBT Builder Project of Cotton University.

The bidding document pertaining to this notice, along with the **requisite nos. of ICICI Bank Challan- 'FEE CODE 011'** which is meant for payment of a **processing fee worth INR 2000/-**, must be downloaded from the University's website i.e. [www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in). The sealed cover must be super-scribed as **"Procurement of Major Lab Instrument/ Equipments under DBT Builder Project of Cotton University :: NIB No. CU/S&P/2023/14 Dt. August 28, 2023"** and addressed to **"The Registrar, Cotton University, Guwahati-781001, Assam"**. The sealed cover containing the bid must be submitted during office hours **on or before 2.00 P.M. of September 13, 2023** in the drop-box arranged for the purpose. Bid opening might be done on the same day at **3:00 P.M.** in presence of the bidders.

(Dr Arindam Garg)  
Registrar

Memo No. CU/S&P/2022/06/10378-87

Dated 29/08/2023.

Copy for information and necessary action to:

1. The Director, Directorate of Information and Public Relations, Government of Assam; he is requested to arrange for publication of the abstract ad {soft copy enclosed} of this notice in the immediately next issue of 'The Assam Tribune', and 'Amar Asom', as well as submit the invoice in triplicate format for claiming the release of payment
2. The P.S. to the Vice Chancellor, Cotton University
3. Dr. Akalesh verma, Principal Investigator(PI) of DBT Builder Project and Asst. Professor, Department of Zoology, Cotton University.
4. Dr. Hrishikesh Upadhaya, Co-PI of DBT Builder Project and Asst. Professor, Department of Botany, Cotton University.
5. Dr. Raju Bharali, , Co-PI of DBT Builder Project and Asst. Professor, Department of MBBT, Cotton University.
6. Dr. Mayuri Chabukdhara, Co-PI of DBT Builder Project and Asst. Professor, Department of EBWS, Cotton University.
7. The Finance Officer, Cotton University
8. The Systems Manager, Cotton University; he is requested to arrange for uploading/posting of this bidding document in the University's website
9. The University's notice board
10. The office file concerned

(Dr Arindam Garg)  
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## 1. Terms and Conditions:

The following terms and conditions, which are the minimum criteria for this bid, shall apply herein:-

- 1.1. The sealed cover must be submitted in **two separate, sealed sub-envelopes** clearly super-scribed as:
  - i. **'Techno-commercial Bid'**, consisting of documents, testimonials, etc. pertaining to all technical specifications/ details of item(s) in addition to commercial terms and conditions as well as other requisite compliances; and
  - ii. **'Financial Bid'**, indicating per unit base rates, per unit prices, total prices and value of the items listed in the Techno-commercial Bid.
- 1.2. The **two separate, sealed sub-envelopes** mentioned in Clause 1.1 are required to be placed inside a **bigger sealed envelope** clearly super-scribed on the top of the same as **"Procurement of Major Lab Instrument/ Equipments for DBT Builder Project of Cotton University :: NIB No. CU/S&P/2023/14 Dt. September 13, 2023"**. The **name and address of the bidder** along with **valid contact number(s)** must be mentioned **on each of the envelopes**. The **bigger sealed envelope** which is required to be addressed to **"The Registrar, Cotton University, Guwahati-781001, Assam"** must be submitted during office hours **on or before 2:00 P.M. of September 13, 2023** in the drop-box arranged for the purpose.
- 1.3. Irrespective of having been registered with the Ministry of Micro, Small & Medium Enterprises (MSME), Govt. of India or the National Small Industries Corporation (NSIC), Govt. of India, there is a mandatory processing fee to the tune of **INR 2,000/- (Indian Rupees Two thousand only)**, which must be deposited through the requisite nos. of ICICI Bank Challan-'FEE CODE 011' at any of the branches of ICICI Bank. The soft copy version of the aforementioned bank challan has to be downloaded from the University's website i.e. [www.cottonuniversity.ac.in](http://www.cottonuniversity.ac.in) for which it has been provided therein under the sub-head called "NIQ/Tenders/EoI" which again is under the head called "Notifications".
- 1.4. The sealed and signed counter-foil [which indicates payment of the processing fee] with regard to the bank challan bearing the heading 'UNIVERSITY'S COPY' must be submitted in the sub-envelope titled Techno-commercial Bid.
- 1.5. Techno-commercial Bid opening and evaluation might be done on the same day at 3:00 P.M. in presence of the bidders. Financial Bid of only the techno-commercially acceptable offer(s) shall be opened for the purpose of evaluation. In case the Techno-commercial Bid evaluation remains incomplete that day, then the date and time of Financial Bid opening shall be intimated to the shortlisted bidder(s) separately.
- 1.6. In case the date of bid submission is declared a holiday by any jurisdictional authority, the following working day of the University shall be treated as due date for bid submission. The bid received after due date and time or without sealed cover or in torn condition shall be treated as 'unresponsive' and disqualified, and shall not be entertained under any circumstances whatsoever.
- 1.7. Going forward, any addendum, corrigendum, notice of date extension, etc. shall be posted on the University's website only. As such, it is in the bidder's interest to stay alert regarding such postings.
- 1.8. All bids received shall be opened, scrutinized and evaluated by a committee constituted for the purpose of selection and recommendation with respect to Award of Contract (A.O.C.)/ Purchase Order (P.O.).

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- 1.9. Evaluation of bids shall be done separately for each item/ category of items on the basis of the respective lowest offered per unit base rates, per unit prices, total prices and value or some other appropriate criterion/parameter adopted by the committee constituted for the purpose.
- 1.10. All pages of the bidding document and supporting materials, annexure/enclosures etc. must be sealed and signed by the bidder or their authorized signatory. All entries by the bidder must be legibly written. Any over-writing, corrections and cuttings must bear initials of the authorized signatory. Ideally, corrections must be made by writing again instead of 'shaping' or over-writing.
- 1.11. Unless the bidder submits a certificate [in order to avail exemption of Earnest Money Deposit (EMD)] issued by the Ministry of Micro, Small & Medium Enterprises (MSME), Govt. of India or the National Small Industries Corporation (NSIC), Govt. of India, they must invariably furnish EMD to the tune of 3% of the quoted value vide Banker's Cheque/ Demand Draft only {and not in any other mode}, drawn in favour of "Cotton University" and payable at "Guwahati".
- 1.12. The Earnest Money Deposit (EMD) of the unsuccessful bidder(s) shall be returned after placement of Purchase Order (P.O.)/ Award of Contract (A.O.C.) on the successful bidder, whereas the EMD of the successful bidder(s) shall be treated as Performance Security money.
- 1.13. The Performance Security money shall be retained until three (3) years from the respective date of installation {and commissioning, if applicable} pertaining to all the major lab instrument/equipments, post which the same shall be returned subject to obtaining the necessary 'No Objection Certificate'/ 'Clearance Report' from the authorized personnel/ end user concerned.
- 1.14. The Performance Security money of the successful bidder, during the subsistence of the period of warranty, shall be interest-free [i.e. it shall not carry any interest on the principal amount] and be refunded after adjustment of all dues of the University for Damages of any kind, if any.
- 1.15. An offer of Replacement Guarantee encompassing immediate replacement of the 'to be supplied' item(s) against defects of manufacturing/ workmanship/ mishandling during storage and transit etc. must be provided by the successful bidder.
- 1.16. An offer of On-site Comprehensive Warranty for a period of at least three (3) years [from the date of installation {and commissioning, if applicable} of the lab equipment] must be provided by the successful bidder.
- 1.17. The University reserves the right to call for any information and record as well as inspect the premises of any or all of the bidders, before as well as during award of the supply contract/ Purchase Order (P.O.) and subsistence of the warranty period.
- 1.18. The University shall deal with the representative(s) of the Original Equipment Manufacturer (OEM) or their authorized dealer/supplier/vendor or business partner directly, and thus, no other commission agents, middle-men, etc. must be asked or encouraged by the bidder to represent their cause.
- 1.19. The bidder submitting their bid shall be deemed to have read and unconditionally accepted all the terms and conditions stated herein. Therefore, counter-conditional bids shall be summarily rejected.
- 1.20. No correspondence shall be entertained in respect of acceptance or rejection of bid.

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- 1.21. **Per unit base rates, per unit prices, total prices, value** [which must not under any circumstance exceed the respective **Maximum Retail Prices (MRPs)** or reasonable market rates, prices, value] have to take into account **taxes and duties, wages of manpower, charges for packaging/ forwarding/ freight {bulk loading and unloading}/ transit insurance, charges for on-site delivery as well as on-site installation and commissioning, etc.** Other incidental expenses must be borne by the bidder themselves.
- 1.22. **Per unit base rates, per unit prices, total prices, and value** in the **Financial Bid** must be quoted in **Indian currency, i.e. Indian Rupees (INR)** only.
- 1.23. If **per unit base rates, per unit prices, total prices, and value** are quoted in a format other than the one prescribed in the bidding document, then the bid is liable to be cancelled. Therefore, '**Schedule of Prices**' must be **carefully and properly filled up**.
- 1.24. **On-site delivery, on-site installation {and commissioning, if applicable} of the lab equipment** [besides any **on-site training {if necessary}**] must be done by the authorised representative(s) of the **Original Equipment Manufacturer (OEM)** or their **authorized dealer/supplier/vendor or business partner** entirely at their own risk and **free-of-cost** in their presence and to the satisfaction of the authorized personnel of the University.
- 1.25. The successful bidder must **deliver the ordered item(s)** at the **Cotton University** or any other site(s) to be finalized in due course of time by the authorized personnel. Besides, the former must also collect item(s) for return, if any.
- 1.26. The successful bidder must **provide adequate and prompt after-sales service and support, whenever and wherever called for at the designated site during such time in the day as may be specified for that particular place from time to time** which shall include **all working days/ shifts and even on holidays**. Apart from delivering the required services, as and when called for, the bidder must **discharge any other duties**, which in the opinion of the University are **within the scope of work** of the bidder, and that such duties must be carried out **with due diligence and care**.
- 1.27. The successful bidder must **not divulge any information, confidential or otherwise**, that he may come across. The **authorized** representative(s) of the bidder shall be granted **access/permission by the University** to enter the premises only for the purpose of carrying out the contractual obligations in respect of the **supply contract/ Purchase Order** and not for any other reason or purpose. Prior permission from the authorized personnel of the University must be obtained by the authorized representative(s) of the bidder in the event of them being required to remain on the University premises beyond the stipulated time and/or on Sundays and fixed public holidays for whatsoever reasons.
- 1.28. The successful bidder and their representative(s) shall be liable to be dealt with suitably in the event of infringement of any law. Any **financial liability arising on the University** shall be **deducted from the invoice of the bidder**; and if the full amount is still not recovered, the same shall be recovered from the **Performance Security money** of the bidder.
- 1.29. In case the successful bidder fails in fulfilling the obligations under the bid or supply contract/ Purchase Order, fully and in time, the University shall have the **absolute right to take up the work at the bidder's cost and risk**, and recover all such expenses from the amount of money due to the bidder including their **Performance Security money**.

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- 1.30. If any damage is caused to persons and/or property of the University by the successful bidder or its personnel deployed in the University's premises in the course of execution of task/assignment under the supply contract/ Purchase Order, then the bidder shall be liable for the same and that they shall indemnify the University against such damages. The bidder shall also render all assistance and cooperation to the University in the event of any inquiry relating to any such incident or accident.
- 1.31. No advance payment shall be made to the successful bidder. Payment shall be made only after due scrutiny, verification and certification by the authorized personnel of the University who shall necessarily be officer(s)/official(s)/end user(s) designated by the University for the purpose regarding the successful execution of the allotted task/assignment by the authorized representative of the bidder.
- 1.32. The successful bidder is liable to forfeit their Performance Security money and be barred from bidding in the future if after receipt of supply contract/ Purchase Order, they fail to deliver the major lab instrument/equipments and/or fulfil due obligations with respect to the same. For any deficient service, the University reserves the right to terminate the contract/ P.O. and initiate such further penal, including legal, action as deemed appropriate.
- 1.33. The successful bidder shall not delegate or sublet/subcontract the supply assignment or any part thereof to any other entity/company/agency/contractor/supplier/vendor or business partner without the prior written consent/approval of the University; and such consent, even if provided, shall not relieve the bidder from any liability or any obligation under the supply contract/ Purchase Order.
- 1.34. Statutory levies and taxes, as applicable from time to time, might be deducted at source {as Tax Deducted at Source (TDS)} from the invoice of the successful bidder at the time of settlement of the same unless the bidder produces a certificate {from the Income Tax authorities} to the contrary. TDS certificate, wherever applicable, shall be issued by the University to that effect. Taxes, as applicable, shall be paid as per rules.
- 1.35. The successful bidder must observe all the laws and be solely responsible for any prosecution or liability arising from breach of any of those laws. The bidder must be responsible for compliance with all central and state laws as per rules/ regulations/ bye-laws/ orders of the local authorities and statutory bodies as may be in force from time to time during the subsistence of the supply contract/ Purchase Order (P.O.) and period of warranty. The bidder must also indemnify the University and its officer(s)/official(s)/end user(s) from any claim or consequences/damages for any lapse or non-compliance thereof. If, at any point of time, it is found that any type of liability/ responsibility has been fixed on the University or its employees by any government or local body/authority with respect to the contract/ P.O., then the total responsibility must be borne by the bidder.
- 1.36. Mere submission of the bid does not confer any right on any eligible bidder for being selected as a successful bidder and to subsequently obtain the Award of Contract (A.O.C.)/Purchase Order (P.O.).
- 1.37. Non-conformity to any of the stipulated terms and conditions and/or non-submission of any of the documents/ testimonials/ fees etc., reference of which is made in the 'Enclosures-cum-Checklist' Section, shall amount to the bid being 'incomplete' thereby disqualifying the bidder owing to which their bid shall not be considered, but instead, summarily rejected by the bid opening and evaluation committee.



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- 1.38. The **bid shall be rejected if:-**
- (i) the authenticity of any of the supporting documents is found to be fabricated or false or untrue or incorrect or forged or deceitful; or
  - (ii) the bidder is found to have been blacklisted by any government/ non-government organization/ Public Sector Undertaking in the preceding three(3) years; or
  - (iii) the bidder is convicted, punished, charge-sheeted in a criminal case involving moral turpitude; or
  - (iv) the bidder tries to canvass the bidding process or influence any official of the University, in any manner whatsoever; or
  - (v) the bid or any part of it is found to be conditional or contradictory in nature and interpretation.
- 1.39. **If, at a later date, it is found that any of the information, documents, testimonials or certificates submitted by the successful bidder is wrong/ forged/ fake/ false/ manipulated, then the supply contract/ Purchase Order (P.O.) shall stand cancelled with immediate effect and that the Performance Security money shall be forfeited without any claim whatsoever against the University.**
- 1.40. **Selection shall not ipso facto (by itself) confer any right on the successful bidder to receive the Award of Contract (A.O.C.)/ Purchase Order (P.O.) from the University and that it shall in no way guarantee or ensure allotment of task/assignment. The University reserves the right to procure the goods from any other reliable entity/company/agency/contractor/supplier/vendor or business partner which might not be selected as per this or any other bid.**
- 1.41. The University reserves the **right to cancel the supply contract/ Purchase Order** by giving a **notice in writing without assigning any reason** whatsoever in lieu thereof. Any notice sent by the University to the address recorded in the bidding document of the successful bidder shall be deemed to have been properly served for any of the purposes mentioned herein.
- 1.42. The **decision of Cotton University on all matters connected with or incidental to selection of supplier(s)/vendor(s) shall be final and binding on all, and that it shall not be called in question on any ground. In case of any ambiguity or dispute that may arise in the interpretation of any of the clauses in this bidding document, the interpretation of the Registrar, Cotton University shall be final and binding on all.**
- 1.43. Cotton University reserves the **right to amend or withdraw any of the terms and conditions and also update/ modify/ relax/ waive/ supplement the minimum criteria/requirements at any point of time.** The University also reserves the **right to accept the offers in full or in parts or reject the same summarily or partly.** Additionally, the University reserves the **right to accept, consider or reject any or all of the offers without assigning any reason** in lieu thereof.
- 1.44. **The Registrar, Cotton University or any officer/official authorized by the University, shall have the discretion to review or ascertain and enforce due and proper observance of the laws, rules and regulations. The officer(s)/official(s) so authorized by the University, or the Registrar, may by himself, investigate into any complaint in the case of any default on the part of the successful bidder vis-à-vis terms and conditions of the bid. No bidder shall be allowed to be represented by any legal expert during the course of any mutual discussion, consultation, investigation, enquiry, appeal or any other proceeding conducted by or before any officer/official of the University against the bidder.**
- 1.45. In the event of any **ambiguity or dispute or difference between the parties involved** relating to or concerning the **interpretation of the supply contract/ Purchase Order** or any **alleged breach** thereof



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or any matter relating to the contract or the bid, the same shall be settled by the parties concerned, as far as possible, by mutual discussions and consultations between themselves. The dispute shall be so settled only when the same has arisen during or after the placement of the Purchase Order (P.O.) and/or during subsistence of the supply contract or its period of warranty; and that the decision taken by the Registrar, Cotton University shall be final and binding on all parties concerned.

- 1.46. The law of the land shall apply to the supply contract(s)/ Purchase Order(s) arising out of this bid. All disputes in this connection and all matters arising out of the same shall be settled exclusively in the courts falling under the jurisdiction of Kamrup Metropolitan district authority.

  
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## 2. Enclosures-cum-Checklist:

- ❖ Documents etc. which must be placed inside the sub-envelope titled 'Techno-commercial Bid' are:
- Counterfoil {UNIVERSITY'S COPY} of ICICI Bank Challan- FEE CODE 011 indicating payment of the processing fee worth INR 2000/-
  - Earnest Money Deposit (EMD) in the form of Banker's Cheque/ Demand Draft to the tune of 3% of the quoted value and alternatively, Certificate issued by MSME/NSIC, Govt. of India.
  - Copy of the bidding document duly sealed and signed by the authorized signatory representing the bidder thereby implicating that all terms and conditions stipulated in the bidding document are unconditionally acceptable to the bidder
  - Copy of Proprietary Article Certificate (PAC) or valid Letter/Certificate of Authorization/ Dealership or Manufacturer Authorization Form (MAF) issued by Original Equipment Manufacturer (OEM) exclusively against this particular bid number
  - Copy of OEM's Product Brochures/ Technical Literatures regarding the offered products which include detailed specifications, images, sketches, diagrams, test reports, energy ratings, etc. as applicable
  - Statement/Table indicating Technical Compliance stating the University's required items' specifications *vis-à-vis* the bidder's offered items' specifications in the letterhead of the bidder
  - Copy of the up-to-date Trade License, etc issued by respective administrative jurisdiction in respect of the district or Union territory.
  - Copy of the Certificate of Registration pertaining to GSTIN and document(s) indicating up-to-date GST filing
  - Copy of document(s) indicating Income Tax Returns (ITR) filing for Financial Years 2020-21 and 2021-22 {i.e. for Assessment Years 2021-22 and 2022-23}
  - Copy of documents/testimonials [set(s) of purchase orders along with delivery challans and installation reports/certificates] indicating previous work experience of having supplied similar equipment to government or semi-government organisation(s)/ higher educational institute(s) of repute situated in north-eastern region of India
- ❖ Document which must be placed inside the sub-envelope titled 'Financial Bid' are:
- Copy of the prescribed format of 'Schedule of Prices' duly filled up in neat and legible handwriting

  
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### 3. Specifications:

Sl. No.	Name and Category of Items with Detailed Specifications
1.	<p><b><u>Cooling water bath</u></b></p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"><li>• Temperature range should be +10 to +95 °C and boiling stage.</li><li>• The system should be supplied with a Peltier cooling device for water baths along with Installation and connection set for Peltier cooling device for temperatures below ambient from +10 °C</li><li>• Working Temperature range should be min. 5 above ambient up to +95 °C with additional boiling mode.</li><li>• resolution of display and setting accuracy should be 0,1°C up to +99,9°C / 1°C from 100°C</li><li>• The system should have corrosion-proof large-area heating on three sides.</li><li>• The heating should be corrosion-proof large-area heating on three sides.</li><li>• The Interior and outer should be made of stainless steel The interior should be easy-to-clean</li><li>• Internal Dimension of the system should be ideally 40-45 x 140-145 x 210-215 mm (W x H x D in mm)</li><li>• The internal Volume of the bath should be 7-9liter.</li><li>• The system should have digital display (LED) of all set parameters, such as temperature and alarm values (0,1°C resolution) as well as time values.</li><li>• The system should have digital timer from 1 min. up to 999 hours for: ON (continuous operation), DELAYED ON, HOLD or HOLD set-temperature dependent with guaranteed holding time</li><li>• The system should have 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value.</li><li>• The system should have temperature control with mechanical temperature limiter TB protection class 1 switching the heating off at approx. 30°C above max. temperature of the bath</li><li>• The system should have independently working, electronic over temperature controller TWW protection class 3.1 or over temperature limiter TWB protection class 2, adjustable in set-up menu by customer</li><li>• The system should have fuzzy-supported PID microprocessor controller with integrated auto diagnostic system with fault indication</li><li>• The system should have visual and acoustic alarm at programme end and as input acknowledgement as well as in case of low liquid level, heating is switched off automatically</li><li>• The water bath should be CE marked.</li></ul> <p><b>Certificate for the availability of spares for 10 years.</b></p> <p><b>Warranty: 2-3 years.</b></p>
2.	<p><b><u>Micropipette set</u></b></p> <p><b><u>Specifications:</u></b></p> <p><b>Qty: 6</b> set range (0.1 µl-1mL; 6 different volume), <b>Qty: 1</b> Multichannel (30-300µl)</p> <ul style="list-style-type: none"><li>• Very low tip ejection force – 3.6N</li><li>• Tip cone should have spring to reduce stress.</li><li>• Volume adjustment with few turnarounds from maximum to min volume.</li><li>• Viable calibration seal to indicate factory calibration not changed</li></ul>

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	<ul style="list-style-type: none"><li>• Without removing any parts, full pipette needs to withstand Autoclave sterilization at 121°C for 20 min</li><li>• No discoloration upon UV irradiation</li><li>• 4 digit display for more accurate volume setting and easier volume identification</li><li>• User adjustment option to temporarily adjust the pipetting volume when working with difficult liquids</li><li>• Six different volumes of Micropipettes (6 qty) should be supplied <b>0.1-2.5 ul, 2-20 ul, 0.5-10 ul, 10-100 ul, 20-200 ul, 100-1000 ul</b></li><li>• 8-channel micropipette (1 qty) of volume <b>30-300 ul</b> should be supplied.</li></ul> <p><b>Certificate for the availability of spares for 10 years.</b></p> <p><b>Warranty: 2-3 years.</b></p>
3.	<p><b><u>Refrigerated centrifuge</u></b></p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"><li>• Centrifuge should have Max RCF of 30,130 x g or better</li><li>• Centrifuge should have CE, UL, ISO 9001, ISO 13485, ISO 14001 Certified and IVD compliance.</li><li>• Centrifuge should have feature for minimum 5 directly key programming facility and maximum 50 programming facility in the memory.</li><li>• Centrifuge should be supported for Cryovialrotor, 5 ml centrifuge tube rotor, 15 and 50 ml conical tube rotor.</li><li>• Refrigerated Centrifuge should be supplied with temperature control range : -11°C to 40°C, should be able to maintain 4°C at maximum speed</li><li>• Centrifuge should have the facility for rapid cooling and continuous cooling following centrifugation process.</li><li>• Centrifuge should be facility for auto shut-off of compressor after 6-8 hours of non usage to reduce the energy consumption.</li><li>• All rotors and rotors lid should be autoclavable</li><li>• Centrifuge should have feature of pre-set temperature programming according to the given date and time</li><li>• Centrifuge should have feature for water drainage facility for accumulated water inside the chamber.</li><li>• Instrument should have automatic rotor recognition facility to automatically recognize and set maximum speed upon rotor change</li><li>• Centrifuge should have max RPM of 17,500 or better</li><li>• Rotors should be supplied for 30 x 1.5/2 ml with speed 14,000 rpm and fixed angle rotor for 6 x 15 ml with 7,800 rpm and fixed angle rotor for 6 x 50 ml with 7,700 x g.</li><li>• PCR Rotor/adaptor for 0.2 ml tubes.</li></ul> <p><b>Certificate for the availability of spares for 10 years.</b></p> <p><b>Warranty: 2-3 years.</b></p>
4.	<p><b><u>Drug Design Software Package (Preferably Discovery Studio Software)</u></b></p> <p><b><u>Specifications:</u></b></p> <p>Must include Molecular docking, Molecular Dynamic, Protein Modeling, Simulation, De novo drug design, ADMET, QSAR, Library of molecules.</p>

My Registrar  
Cotton University  
Guwahati-781001



# COTTON UNIVERSITY

Panbazar, Guwahati-781001, Assam, India

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## License for 1 year to life-time validity (Perpetual license)

The software should be able to work on windows 10 and Linux operating systems (64 bit arch).

### Academic purpose

CHARMm to study the energetics and flexibility of molecules and C36FF and CGenFFForcefield typing. MMFF: (Merk Molecular Force Field) Study the energetics and interaction between macromolecules and ligands. Provides access to easy-to-use tools for building and modifying DNA, RNA, proteins and peptides as well as protocols for calculating electrostatic potentials and solvation energies of both large and small molecules using Poisson-Boltzmann electrostatics. Accurately predict pK's, pH titration curves, and overall energy of folding. Protein Refine: Optimize a loop region of a protein structure and generate multiple energy optimized variants of the loop region and browse through loop structures and chart results, *ab initio* approach. DMOL3 Molecular: The density-functional theory (DFT) program used for calculating electronic properties of compounds at a very high level of accuracy.

### Lead identification and optimization

SBDD (Structure Based Drug Design) tools, Flexible Docking: Perform rational flexible docking for accurate receptor. Sampling with efficient, features-based docking. Easily dock ligands into the binding site of receptors using shape-based search and Monte Carlo sampling of ligands. Ludi: A *de novo* drug discovery application that uses interaction sites in the receptor binding pocket to search fragment libraries and identify and rank molecules. MCSS: (Multiple Copy Simultaneous Search). A powerful CHAR Mm-based method for docking and minimizing small ligand fragments within a protein binding site.

De Novo Ligand Builder: a unique fragment-based design tool because it uses pharmacophores to guide the placement of fragments. This powerful tool can rapidly produce lists of completely novel compounds that all contain the features thought to be critical for binding to a specific drug.

### Protein Modeling:

Automatically and rapidly generate a refined homology model of a protein Sequence Analysis from BLAST and PSI-BLAST algorithms. Protein Modeling and Sequence Analysis tools to construct 3D models, uncover likely biological functions and simulate potential interactions. **Protein Docking:** Predict protein-protein structure interactions of novel targets rapidly and accurately.

### Ligand Design Collection:

ADMET: Predict absorption, distribution, metabolism, excretion and toxicity (ADMET) properties

TOPKAT: Evaluate compounds' performance in experimental assays and animal models published in OECD

Library Design: Provides a full suite of similarity and diversity clustering methods specifically tailored for chemical library design.

QSAR

### X-ray tools:

The X-ray tools build, edit, and refine protein structures from electron density map determined by X-ray diffraction experiment. It also checks for abnormalities of the protein structures.

- **Proprietary certificate for software must be given by the vendor.**
- **Extensive Training to be provided at installation site with a qualified application specialist.**

**Accessories:** Preferable system

Screen Size: 35.56 cm (14"), Colour Natural silver

- Intel® Evo™ platform powered by Intel® Core™ i5 processor
- Windows 10 Home Single Language 64
- 35.56 cm (14") diagonal, WUXGA (1920 x 1200), IPS, micro-edge, anti-glare
- NVIDIA® GeForce® GTX 1650 Ti with Max-Q design (4 GB GDDR6 dedicated)

*My*  
Cotton University  
Panbazar, Guwahati-781001, Assam, India





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<ul style="list-style-type: none"> <li>• 16 GB DDR4-3200 MHz RAM (onboard)</li> <li>• 1 TB PCIe® NVMe™ TLC SSD</li> </ul> <p><b>Warranty: 2-3 years</b></p>
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#### 4. Schedule of Prices:

Sl. No.	Item with Brand	Per Unit Base Rate {INR}	HSN Code	Value of GST@ applicable rate {INR}	Per Unit Price {INR}	Quantum*	Total Price {INR}	Delivery Schedule {No. of Days}
[A]	[B]	[C]	[D]	[E]	[F=C+E]	[G]	[H=FxG]	[I]
1.	Cooling water bath					1 set		
2.	Micropipette set					7 set		
3.	Refrigerated centrifuge					2 set		
4.	Drug Design Software Package					1 set		
Value{INR}								

\*N.B.: Quantum of order is subject to revision at a subsequent stage without any provision for revision in offered per unit base rate(s) and per unit price(s)

Name of the **Bidder**: .....

Address of the **Bidder**: .....

Contact Number(s) of the **Bidder**: .....

E-Mail ID(s) of the **Bidder**: .....

Type of Business Entity of the **Bidder** [Proprietorship/Partnership/Company]: .....

Full Name {in BLOCK Letters} of the **Authorized Signatory**: .....

Full Signature of the **Authorized Signatory** with Date:

Office Seal/Stamp:

  
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