



**Department of Life science and Bioinformatics,  
ASSAM UNIVERSITY, SILCHAR**

(A Central University constituted under the Act of Parliament of India in 1994)

Tel: +91-3842-270260, Fax: +91-3842-270802

[www.aus.ac.in](http://www.aus.ac.in)

**INVITATION FOR TENDER**

**Ref. No. DBT-NER/Agri/29/Joha/Equipment/01 dated 11.01.2016**

Assam University, Silchar, a central university invites sealed Tender from reputed manufacturers/ authorized distributors / authorized firms with sound technical capabilities for supply, installation and commissioning of the following items to be procured under DBT project in the Department of Life science and Bioinformatics, Assam University, Silchar. The quotations will be opened at **12:00 pm** on **21<sup>st</sup> March 2017**. Detailed technical specifications including make/model/accessories and price including taxes should be quoted against each item separately. All terms and conditions will be as per Assam University, Silchar rules, regulations and decisions.

<b>Serial No.</b>	<b>Particulars of the equipments with minimum specifications</b>
1	<p><b>Chlorophyll Fluorimeter with accessories</b></p> <ul style="list-style-type: none"><li>• Pulse-Modulated System</li><li>• Compact Field Design</li><li>• Chlorophyll Fluorometer for the study of Photosystem-II (PS-II) and quenching analysis.</li><li>• Blue /Red LED light for fluorescence excitation, actinic illumination and saturating pulses.</li><li>• In-built Far-red light source for excitation of Photosystem-I</li><li>• Measured/Calculated parameters : Fo, Fm. Fv, Fv/Fm, Fo', Fm', Y(II) OR <math>\phi_{psII}</math>, ETR, qP, qN, NPQ, etc</li><li>• System should supply : Main unit, fiber optic, leaf clip 60°, Dark Leaf Clip, Software, Communication cable, and transport case.</li></ul>
2	<p><b>-80 deep freezer</b></p> <ul style="list-style-type: none"><li>• Volume: minimum 360 litres and is able to store 2mL vials: 24,000 or more</li><li>• Temperature range: -50°C to -80°C</li><li>• Control: Microprocessor controlled monitoring system</li><li>• Internal doors 4 with 4 Inner Compartments.</li><li>• Set-point security control that blocks specific users from changing freezer set point. Unit shall allow for up to 150 users</li><li>• Insulation: vacuum insulation</li></ul>

	<ul style="list-style-type: none"> <li>● On-board data storage for temperature and event login with facility to download data through USB.</li> <li>● Alarm System: audible/visual alarm system with battery back-up of temperature deviation, door open, low battery.</li> <li>● Power consumption should be less than 20 KW/day</li> <li>● Warranty: minimum 2 years and 4 years for compressor.</li> <li>● It should meet the quality standards (CE &amp; UL).</li> <li>● Pressure equalization port for reopening of door within a minute.</li> <li>● Wireless data monitoring for the freezer temperature with SMS alert facility should be quoted for future up gradation.</li> </ul>
3	<p><b>10 KVA UPS</b></p> <ul style="list-style-type: none"> <li>● Rating:10KVA/10000VA</li> <li>● DC Volt:192V</li> <li>● Input Phase: Three</li> <li>● Input Voltage:300V – 475V</li> <li>● Input Power Factor: 0.99</li> <li>● Input Frequency: 45Hz – 55Hz</li> <li>● Output Phase: Single</li> <li>● Output Voltage:220/230/240 <math>\pm</math>1%</li> <li>● Full Load Current: Rated at 0.9 p.f.</li> <li>● Nominal Frequency: 50Hz<math>\pm</math>0.05 Hz</li> <li>● Output Power Factor: 0.9</li> <li>● Over Load Capacity:125% for 10 minutes &amp; 150% for 1 Minute</li> <li>● Static Voltage Regulation:<math>\pm</math>6% for 50% step load change</li> <li>● Dynamic Voltage Regulation: <math>\pm</math>1% of Nominal for all variations change</li> <li>● Total Harmonic Distortion: &lt;3%</li> <li>● Inverter Efficiency: &gt;93% on full load</li> <li>● Crest Factor:- 3:1</li> <li>● Isolation Transformer: Galvanic Isolation Transformer at input</li> <li>● Protection Charger: Input circuit breaker, charger over voltage Charger over current limit.</li> <li>● Battery: Battery low cut off/ Current limit, HRC Fuse in battery path, battery over charger trip.</li> <li>● Inverter: Output over voltage/ Over load trip Current limit, short circuit.</li> <li>● Display Indications: Mains ON, UPS ON, UPS Trip, UP OV/UV, Battery Low trip,</li> <li>● Display: LCD Display for checking Input &amp; Output Parameters</li> <li>● <u>BATTERY</u>-Sealed Maintenance Free Battery, VAH required : 12480 for 2 hrs backup.</li> <li>● Environment Operating temperature Range: 0 deg C to 55 deg C</li> <li>● Storage Temperature Range: -20 deg C to 60 deg C</li> <li>● Relative Humidity: 95% non condensing</li> <li>● Max. operating altitude without derating: 3000 meters</li> <li>● Certification: ISO 9001, ISO 14001, ISO 18001,CE Certification.</li> </ul>

## **TERMS and CONDITIONS:**

1. The tenders complete in all respects should be addressed to **Prof. Sanjib Kumar Panda, Principal Investigator ,Department of Life science and Bioinformatics, Assam University, Silchar-788011, India.**
2. The tenders for equipments must be submitted in two-bid system (Technical and Financial). The tenders shall be submitted item-wise in two separate sealed covers clearly mentioning on the envelope the details of items for which bid is submitted. The format for the same is enclosed in the Annexure. ONLY TECHNICALLY accepted competitive bids will be considered for placing Purchase Order. **Last date and time for receipt of Tenders: 20/03/2017 during the office hours up-to 5.00 pm. Date of opening Tenders: 21/03/2017 at 12:00 p.m.**
3. The technical bids should include all the specification for each part complete with part numbers of main equipments and accessories. **The technical details should be supported by original brochure/documents for each component.**
4. Tenders by e-mail, Fax, Telex, Telegram will not be accepted. Tenders must be submitted in sealed envelope only clearly indicating **“TENDER FOR ITEMS FOR DBT-NER/Agri/29/Joha/Equipment/01 dated 11.01.2016”** addressed to undersigned. The university shall not be responsible for any delay in receiving tenders.
5. In case of any modification in specifications / terms and conditions / any clarification to the bid document, it will be hosted in the university website only and the bidders are requested to log to our website from time to time and no separate corrigendum will be issued in this regard.
6. The rate should be exclusive of taxes and applicable tax should be clearly indicated. The rates should be quoted along with supporting documents of specifications, technical features, list of users and authorized dealership documents (if applicable).
7. **A certificate from vendors mentioning the place of manufacturing of the all the components of the equipment along with a certificate that the equipment supplied is new without any defect must be supplied to qualify for Technical bid.**
8. **AFTER SALES SERVICE:** Details of availability of after sales support will have to be furnished. The offer shall clearly state full details of the service after sales facility available for the equipment. The details shall include & qualification of service personal stationed at the service centre, response time in case emergency, availability of spares, etc. The offer shall also give the amount and other terms & conditions for annual service contract of the equipments after the expiry of the guarantee/warranty period.
9. **The university is exempted from paying Customs and Excise duty.**
10. Proprietary items should be quoted with sole Manufacturer / Dealership certificate. Without dealership or manufacturer’s certificate no bids will be accepted.
11. No advance payment will be made. However, if items are of foreign origin, advance payment can only be made in the form of vide LOC/FDD/Wire Transfer. **Performance Bank Guarantee must be submitted as per rules covering warranty period.**
12. **Items of foreign origin should have insurance up to installation site.**
13. If any item / equipment delivered in damaged condition, the equipment should be replaced with new one immediately.

14. Items of foreign origin should have insurance up to installation site. In case of equipment of foreign origin, the Indian dealer/agent should submit one undertaking on non-judicial stamp paper, stating that if any equipment delivered in damaged condition they will be liable to replace the same with a new one (applicable only when order is placed).
15. The invitation for bid is open to all OEM (original equipment manufacturer) or their authorized dealers. The principal company may authorize their dealer to participate in the quotation and authorization letter must be attached with the quotation document.
16. Copies of valid Central/State sales tax registration certificate, Income tax clearance certificate, proof of manufacturing unit/dealership & general order suppliers and copies of two major supply orders executed during the preceding two years for Govt. depts. /PSUs and Central Autonomous bodies have to be submitted.
17. The equipment will have to be installed by the supplier /Agent in the Department of life-science & bioinformatics within 4 weeks, from the receipt of equipment, free of charges.
18. Price quoted for the material/equipment shall be firm and valid for 60 days from the date of opening.
19. Tenders not conforming to the terms and conditions and procedure so outlined or Tender incomplete in any respect is liable to be summarily rejected. The university reserves the right to accept or reject any or all the bids without assigning any reason whatsoever.
20. Special discount/rebate: Special discount/rebate admissible to Educational Institution/Central University may be specifically indicated in the quotation.
21. If there be any dispute, it will be referred to an arbitrator to be appointed by the University for his decision and award. The award or decision of the arbitrator shall be final and binding on both parties.

Those bidders, who accept the above terms and conditions, may submit their tenders in the prescribed format along with all relevant documents/brochures to the undersigned. The tender must also submit a certificate in their official letter head duly signed and sealed starting that all above terms and conditions are acceptable to them.

Sd/-

Prof. Sanjib Kumar Panda  
Principal Investigator, DBT U-Excel Project  
Department of Life science and Bioinformatics,  
Assam University, Silchar-788011, India.

**Copy to:**

1. Copy to Secretary to VC, AUS for VC's kind information
2. The Registrar, AUS
3. The Finance Officer, AUS
4. Internal Audit Officer, AUS
5. Director, Computer Centre, AUS for uploading in the university website ([www.aus.ac.in](http://www.aus.ac.in))
6. File for record

## PROFORMA FOR SUBMISSION OF TECHNICAL BID (TB)

From

.....  
.....  
.....  
.....

To,

Prof. Sanjib Kumar Panda  
Principal Investigator, DBT U-Excel Project  
Department of Life science and Bioinformatics,  
Assam University, Silchar-788011, India.

With reference to your advertisement dated \_\_\_\_\_ and posted at Assam University Website, I / We hereby submit the Technical bid for the \_\_\_\_\_ required by you. I / We confirm that I / We are the owners /authorized person to offer you the item as per the desired specifications.

Fill the appropriate table as applicable for the items separately

### 1. Chlorophyll fluorimeter with accessories

S.NO	TECHNICAL SPECIFICATION	DETAILS TO BE FILLED BY BIDDER
1	Pulse-Modulated System	
2	Study of Photosystem-II (PS-II) and quenching analysis.	
3	Blue /Red LED light for fluorescence excitation, actinic illumination and saturating pulses	
4	Far-red light source for excitation of Photosystem-I	
5	Measured/Calculated parameters : $F_o$ , $F_m$ , $F_v$ , $F_v/F_m$ , $F_o'$ , $F_m'$ , $Y(II)$ OR $\phi_{psII}$ , ETR, $qP$ , $qN$ , NPQ, etc	
6	System should supply: Main unit, fiber optic, leaf clip 60°, Dark Leaf Clip, Software, Communication cable, and transport case.	

## 2. -80 deep freezer

S.NO	TECHNICAL SPECIFICATION	DETAILS TO BE FILLED BY BIDDER
1	Volume: minimum 360 liters	
2	Temperature range	
3	Control: Microprocessor controlled monitoring system	
4	Internal doors 4 with 4 Inner Compartments	
5	Set-point security control	
6	Insulation	
7	Temperature data storage and download	
8	Alarm System	
9	Power consumption	
10	Warranty	
11	Quality standard	
12	Pressure equalization port for reopening of door within a minute	
13	Future upgradation possibilities	

## 3. 10 KVA UPS

S.NO	TECHNICAL SPECIFICATION	DETAILS TO BE FILLED BY BIDDER
1	DC Volt	
2	Input Phase	
3	Output Phase	
4	Output Voltage	
5	Output Power Factor	
6	Crest Factor	
7	Isolation Transformer	
8	Battery	
9	Certification	

Date:

(Signature of the Offerer)

OFFICE SEAL

(This format shall be sent in a separate sealed cover super scribing - "TECHNICAL BID FOR EQUIPMENT \_\_\_\_\_ for Ref No DBT-NER/Agri/29/Joha/Equipment/01 dated 11.01.2016)

**PROFORMA FOR SUBMISSION OF FINANCIAL BID (FB)**

From

.....  
.....  
.....  
.....

To,

Prof. Sanjib Kumar Panda  
Principal Investigator, DBT U-Excel Project  
Department of Life science and Bioinformatics,  
Assam University, Silchar-788011, India.

Having read and understood the Technical bid, I am / We are furnishing the desired information and submitting our Technical Bid duly signed by our Authorized person. Now we hereby submit (in separate sealed cover) our Financial Bid for the purchase of equipments.

**Please fill up for the items mentioned separately, whichever is applicable:**

S.NO	SPECIFICATION ITEMS	DETAILS TO BE FILLED BY BIDDER
1	Name of the equipment with model no. etc	Price in /\$/Other currency whichever is applicable (Please mention separately the price of the items, accessories, insurance, etc. under separate heads)
2	Applicable taxes	To be included
3	CIF of FOR Silchar	To be included
4	Special Offer/ Discount	To be included
5	Grand Total	Price in INR/\$/Other currency whichever is applicable
6	Terms and condition	As applicable
7	Warranty and after sales service	As applicable
8	Banking Details (For foreign items)	To be included

Date:

(Signature of the Offerer)

OFFICE SEAL

(This format shall be sent in a separate sealed cover super scribing - "**FINANCIAL BID FOR EQUIPMENTS \_\_\_\_\_ for Ref No DBT-NER/Agri/29/Joha/Equipment/01 dated 11.01.2016**)