

**Department of Ecology and Environmental Science**  
**ASSAM UNIVERSITY, SILCHAR**  
**(A Central University constituted under the Act of Parliament of India in 1994)**  
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[www.aus.ac.in](http://www.aus.ac.in)

**INVITATION FOR TENDER**

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 UEXCEL project in the Department of Ecology and Environmental Science, Assam University, Silchar. 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.

Serial No	Particulars of the equipments with minimum specifications No.
1	<p><b>SPECIFICATION FOR MICROWAVE AND EXTRACTION AND DIGESTION SYSTEM</b></p> <ol style="list-style-type: none"> <li>1) Magnetron Power: - Microwave heating system must have a measured delivered output power of 1800watts with dual magnetron system. There should be provision of protection of magnetron from reflected microwave energy. The same system should be able to conduct Acid digestion as well solvent extraction in one system</li> <li>2) Control: System must have a built in operating system with touch screen controller fluorescent and facility for connecting external mouse and external alphanumeric keypad for entry of operating parameters and sample Identification. System must operate stand alone and must not require the use of any external controller or computer for operation. System software must automatically adjust the power delivery based upon number of vessels, type of vessels and type of samples in a single touch operation. System should have provision to control thorough Tab or mobile phones, suitable software of the same to offer in option.</li> <li>3) Vendor must include a certified test report of NRTL Safety Listing (commonly Known as UL® approval) for the exact system as delivered (not a similar model) Per OSHA regulations 29 CFR 1910.3 and 1910.7. Systems not approved will not be considered. Documentation certifying the vendor's current ISO 9001 Registration must also be provided for quality assurance purposes.</li> <li>4) System must be capable of processing up to 40 high pressure (500 psig) vessels simultaneously.</li> <li>5) Vessels must be able to be individually loaded and removed from the microwave for ease of handling without requirement to remove the whole turntable.</li> <li>6) System must be capable of processing up to             <ol style="list-style-type: none"> <li>a) <b>Vessels for Digestion: Microwave</b> digestion vessels must be vent able. – 1 set No of vessels: - 8 Nos (Rotor should have capacity to fit minimum 40 vessels)</li> </ol> </li> </ol>

	<p>Max Temp that vessel should withstand: 260 Deg C  Volume of vessel: 55 ml  Pressure capacity: 500 PSI</p> <p>b) <b>Vessels for Extraction:</b> Microwave vessels must be vent able. – 1 set  No of vessels: - 8 Nos  Max Temp that vessel should with stand: 260 Deg C  Volume of vessel: 55 ml  Pressure capacity: 500 PSI</p> <p>7) Temperature control system must have floor mounted contact less (Non IR) in-situ temperature sensor with LET Technology. The temperature control option must provides direct internal temperature control of applications and include all onboard instrument electronics allowing full monitoring of vessels up to 330<sup>0</sup>C.</p> <p>8) The system must be equipped with an easily detachable and re-attachable solvent Detection system for extraction.</p> <p>9) System must have a device to protect the magnetron from back-reflected energy. To ensure even heating it must be located external to the cavity. Microwave Absorbing, only Isolator should be provided, No other devices in the cavity itself are not acceptable</p> <p>10) For safety reasons the system must include a monitoring system that disables the magnetron power when it senses a vessel vent or failure, even if the event does not occur in the control vessel.</p> <p>11) System must carry a minimum one year warranty on parts and labor.</p>
2	<p><b>COMPUTER WITH ACCESSORIES</b></p> <p>1. Intel core i5 7th gen/ 4 GB DDR4 RAM / 1 TB HDD/DVD RW / Internal graphics / WLAN / Bluetooth /wireless key- Board &amp; mouse / 21” screen / Antivirus/ Speakers/ 3 yrs warranty</p> <p>2. LaserJet printer with print, scan, copy, duplex Both side printing facility</p> <p>3. 1 KVA offline UPS</p>
3.	<p><b>ONLINE UPS 5 KVA,</b>  (Input: 1phase.- output : 1 phase) Back up time :One hour  To be provided with SMF Batteries , powder coated M.s. Rack for Battery housing, interconnectors , MCB for connection Nomenclature : True online double conversion technology, built-in Isolation transformer</p>

**TERMS and CONDITIONS:**

1. The tenders complete in all respects should be addressed to Dr. Arun Jyoti Nath, Principal Investigator, Department of Ecology and Environmental Science, 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: 30/04/2018 during the office hours up-to 5.00 pm. Date of opening Tenders: 01/05/2018 at 12:00 pm.

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 UEXCEL AJN” 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 Ecology and Environmental Science 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/- Dr. Arun Jyoti Nath  
Principal Investigator, DBT U Excel Project  
Department of Ecology and Environmental Science  
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 FINANCIAL BID (FB)

From

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To,

Dr Arun Jyoti Nath  
Principal Investigator, DBT U-Excel Project  
Department of Ecology and Environmental  
Science, 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

Sl. 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 DBT UEXCEL AJN**")