



ASSAM UNIVERSITY: SILCHAR

B. VOC. (FOOD PROCESSING AND FARM MACHINERY AND POWER TECHNOLOGY) PROGRAMME

TENDER PAPER

OPEN TENDER NOTICE NO. AUS/B.Voc./PUR/2016 Dated the 2nd MAY, 2016

FOR SUPPLYING AND INSTALLATION OF OFFICE ITEMS AND LABORATORY EQUIPMENTS IN THE B. VOC. (FOOD PROCESSING AND FARM MACHINERY AND POWER TECHNOLOGY) PROGRAMME.

COST OF TENDER PAPER : RS. 1000/-.

DATE OF ISSUE OF TENDER PAPER : 2ND MAY – 01.00 PM OF 25TH MAY, 2016.

LAST DATE OF RECEIPT OF BIDS : 26TH MAY, 2016 UPTO 02.00P.M.

DATE OF OPENING OF BIDS : 26TH MAY, 2016 AT 03.00P.M.

ISSUE NO. AUS/B.Voc./PUR/2016

Dated the 2nd May, 2016

ISSUED TO :

SIGNATURE OF ISSUING AUTHORITY



ASSAM UNIVERSITY: SILCHAR

TENDER NOTICE

Sealed Tenders in two bid system are invited from the interested OEMs/authorised distributors for supplying **OFFICE ITEMS AND LABORATORY EQUIPMENTS** for the B. Voc. (Food Processing and Farm Machinery and Power Technology) Programme. The Tender should be submitted in two parts, Part – I : Technical Bid; Part – II : Financial Bid in separate envelopes to the Office of the Nodal Officer (B. Voc.), Raja Rammohan Roy Administrative Block on or before 26th May, 2016 up to 02.00p.m. No Tender shall be received after the specified time. The tender documents can be downloaded from the website <http://www.aus.ac.in> and the downloaded form should be accompanied by a DD of Rs. 1000/- drawn in favour of Finance Officer, Assam University, Silchar. The same can also be collected from the Office of the undersigned by producing the DD of Rs. 1000/-.

(Dr. Debasis Kar)
Nodal Officer (B. Voc.)
Raja Rammohan Roy Administrative Block



**ASSAM UNIVERSITY: SILCHAR
B. VOC. (FOOD PROCESSING AND FARM MACHINERY AND POWER
TECHNOLOGY) PROGRAMME**

SCOPE OF WORK

1. Supply of material as per tendered specifications.
2. Installation and testing of office items and laboratory equipments.
3. The Vendor should include in their offer and supply all necessary accessories for installation of all the tendered components.



ASSAM UNIVERSITY: SILCHAR
B. VOC. (FOOD PROCESSING AND FARM MACHINERY AND POWER TECHNOLOGY) PROGRAMME

TERMS AND CONDITIONS FOR SUPPLYING AND INSTALLATION OF OFFICE ITEMS AND LABORATORY EQUIPMENTS IN THE B. VOC. (FOOD PROCESSING AND FARM MACHINERY AND POWER TECHNOLOGY) PROGRAMME.

Ref : AUS/B. Voc./PUR/2016

Dated the 2nd May, 2016

1. The Bidder should be Original Equipment Manufacturer (OEM) or authorised distributor and also service provider for the equipments. Attach documentary proof.
2. The Bidder should have been in operation for a period of at least 5 years as on last date of bid submission, as evidenced by the "Certificate of Incorporation and Certificate of Commencement issued by the Registrar of Companies".
3. Bidders must have at least 3 years of experience in supply and maintenance of respective items, out of which at least 2 years must be in similar kind of activities for single organization. The Bidder should give details of at least 2 services of the same scale in nature executed by him.
4. Sealed Tender should be submitted in prescribed form in two bid system as per the following instructions :
 - i) EMD is to be sealed in Envelop No. 1
 - ii) Technical Bid is to be sealed in Envelop No. 2
 - iii) Price Bid is to be sealed in Envelop No. 3
 - iv) Envelop No. 1, 2 & 3 to be inserted in single envelop properly sealed and superscribing, name of work, tender No., closing date and name of agency/contractor in the cover of the envelop.
 - v) Sealed means sealing by wax/gum/any type of adhesive tape etc. but not pinned.
 - vi) The envelop containing the tender should be addressed and should be dropped in the tender box placed in the Office of the Nodal Officer (B. Voc.) located in the Raja Rammohan Roy Administrative Block.
 - vii) Price Bid of only those bidders will be opened who are found qualified after technical bid evaluation.
 - viii) All pages of the tender document is required to be signed by the bidder.
5. The tender should be accompanied with EMD of 2.5% of the final value in the form of **call deposit** to be drawn from any **Nationalized Bank** pledged in favour of the **Finance Officer, Assam University, Silchar**.

6. The rate quoted should be for the items and specifications as mentioned in the list. The party should not quote for other specifications. **If the party wishes to quote for a higher/superior specifications, it must be separately stated along with proof that the specification is higher/superior. In no case they should quote for lower/inferior specification. In that case the tender will not be considered.**
7. Being an Educational Institution, Assam University, Silchar is entitled for Custom and Central Excise Duty exemption for procurement of Scientific Equipments etc. The interested party while quoting rates should indicate the Excise Duty component and Tax component separately.
8. The Bidder should enclose a copy of quality certificate from a recognized institution for their manufacturing/assembly/system integration facilities anywhere located in India or abroad. This certificate should be from any globally recognized institution.
9. Bidder should submit valid documentary proof of Sales Tax/VAT, Service Tax Registration No. and the details of Income Tax Registration (PAN).
10. The Vendor must fulfil the above criteria. Technical bid of Vendors fulfilling the criteria will only be evaluated by the duly constituted technical evaluation committee. Bid of vendors not fulfilling the criteria given above will be summarily rejected. Undertaking for subsequent submission of any of the above documents will not be entertained under any circumstances.
11. University may place the supply order to the individual bidder who quotes the lowest price for individual item. **Merely quoting the lowest price overall does not entitle a bidder to get the order for all the items.**
12. **The selected bidder after receipt of supply order has to deposit 7.5% of the supply order value in the form of FDR valid for 18 months from the date of tender from any Nationalized bank in favour of the Finance Officer, Assam University, Silchar payable at Dargakona, Silchar as security deposit. In addition, the earnest money deposited shall also be retained as security deposit. The security deposit will be released only after completion of warranty period.**
13. **The successful bidder shall have to supply the materials strictly as per the configuration, make/brand as stated in the supply order and shall have to complete the supply within 30 days from the date of issue of order/or as per mutual agreement in full set basis and the items are required to be installed in the Laboratory. Otherwise, the order shall automatically stand cancelled and the security deposit of the bidder shall be forfeited. No communication in this regard will be entertained. User manuals, Operating System CD, Driver CD etc. are also to be provided along with the items supplied.**
14. **Earnest money of unsuccessful bidders will be released after finalization of the order.**
15. The successful bidder shall have to provide comprehensive onsite warranty support as per specifications from the date of successful installation. If any breakdown, non-functioning or malfunctioning of the machine/equipment occurs during the warranty period, the supplier shall have to attend to the complain within 24 hours (or in next working day in case of holidays) after

receiving verbal/written/e-mail complain and will make the machines functional free of cost. In case the system has to be taken out of the University campus, the bidder should provide a standby support system/peripheral with same or higher/new configuration/specification.

16. If the vendor/supplier/bidder fails to attend to the breakdown calls made within the warranty period, a portion or whole of the security deposits as decided by the University shall be forfeited.
17. The ASSAM UNIVERSITY reserves the right to reject all of the tenders. The reasons for rejection of tenders, if any, shall be informed to the concerned bidders. The decision of the University authority in this regard shall be final.
18. A) **RATE:** The rate which should be quoted both in figure and words must be inclusive of packing forwarding freight and all other incidental charges.
B) **SALE TAX/VAT :** Rate inclusive of Sales Tax / VAT will be preferred. However, where quoted separately the rates payable should be clearly cited in accordance with provision of relevant Act and rules.
C) **Form 'C' and 'D' :** Assam University, Silchar is not authorised to issue 'C' & 'D' Form against CST.
21. A) **Consignee :** All stores are required to be consigned to the Nodal Officer (B. Voc.), Raja Rammohan Roy Administrative Block, Assam University, Silchar – 788 011 (Assam).
B) **Mode of Despatch :** The consignment is required to be despatched by Road Transport or delivered at this University under Supplier's own arrangement free of additional charges. All offers of delivery should be made ex-stock and clear note should be inserted. In case of damage or loss in transit, if any will be recoverable from the suppliers.
C) **Despatch of Documents :** The consignment note along with the quadruplicate copy of relevant bill and two copies of priced challan should be despatched to the Nodal Officer (B. Voc.), Raja Rammohan Roy Administrative Block, Assam University, Silchar – 788 011 (Assam) immediately on completion of despatch of consignment. If these documents do not reach the said office in time all wharf age / demurrage incurred, if any will be recoverable from the suppliers.
22. **Quality Specification :** The stores offered should be of the best/standard quality available unless, otherwise specified conforming strictly to the specification cited. The University reserves the right to reject such stores as are found unacceptable on these grounds. Items of only reputed manufacturers will be given preferences.
23. **Liquidated Damages :** If a firm accepts the order and fails to execute the order in full or part as per terms and conditions therein, it will be open to the competent authority to recover liquidated damages from the firm at the rate of 1% per month or the part thereof, subject to a maximum of 5% of the value of the undelivered stores. It will also be open to the Competent Authority, alternatively to arrange procurement of the required stores from any source, at the risk and expenses of the firm that has accepted the order and failed to execute the order according to stipulations agreed upon. This will also entail removal of the defaulters name from the approved/registered list of suppliers.

24. **Special Discount/Rebate** : Special Discount/rebate admissible to Educational Institute of National importance may be specifically indicated in the quotation.
25. **Rejection of Offer** : Tenders not conforming to the terms and conditions and procedure so outlined are liable to be rejected summarily.
26. **Guarantee/Warranty** : The stores should be covered by comprehensive onsite warranty as per specifications from the date of satisfactory installation.
27. **Special Condition** : Special condition, if any, printed on the quotation sheets of the tenders or condition attached with the tender will not be applicable to the contract unless these are expressly accepted in writing by the Nodal Officer concerned for technical conditions and commercial conditions.
28. **Discretionary Power** : The Head/Competent Authority, Assam University, Silchar reserves the right to modify in exceptional case any of the stipulated terms and conditions on merit on genuine and justifying grounds if it is in the larger interest of the University, before submission of bids. The modifications, if any, will be duly notified in the University web site. The bidders are therefore requested to go through the University web site for the modifications in terms and conditions, if any, before submission of the bids. The final acceptance of the tender rests entirely with the Vice Chancellor who does not bind himself to accept the lowest tender.
29. The following updated documents should also accompany the tenders :
- * Trade License.
 - * Income Tax Clearance Certificate.
 - * Sale Tax Clearance Certificate.
 - * CST/VAT Clearance certificate if quoted in the tender for CST/VAT.

Those Bidders who accept the above terms and conditions may submit their tenders in the prescribed format along with all documents to the Office of the undersigned on or before the stipulated date. The Bidders must also submit a certificate in their official pad stating that all the above terms and conditions are acceptable to them.

(Dr. Debasis Kar)
Nodal Officer (B. Voc.)
Raja Rammohan Roy Administrative Block

TENDER FOR SUPPLY AND INSTALLATION OF OFFICE ITEMS AND LABORATORY EQUIPMENTS IN THE B. VOC. (FOOD PROCESSING AND FARM MACHINERY AND POWER TECHNOLOGY) PROGRAMME, ASSAM UNIVERSITY, SILCHAR – 788 011.

To
Dr. Debasis Kar
Nodal Officer (B. Voc.)
Raja Rammohan Roy Administrative Block
Assam University
Silchar – 788 011.

Sir,

With reference to your Tender Notice No. AUS/B. Voc./PUR/2016, dated the 2nd May, 2016 published in the Newspaper and posted at Assam University Website for supply of Office items and Laboratory Equipments in the B. Voc. (Food Processing and Farm Machinery and Power Technology) Programme, Raja Rammohan Roy Administrative Block, Assam University, Silchar – 788011, I/we hereby submit the bond.

I/we confirm that I/we are the owners/authorised person to offer you the item as per the desired specifications.

FORMAT FOR COMMERCIAL BID

SL. NO.	ITEM DESCRIPTION	QUANTITY	UNIT COST	TAX	RATE	TOTAL AMOUNT
1	OFFICE ITEMS 1. 2. 3. 4. 5.					
2	LABORATORY EQUIPMENTS 1. 2. 3. 4. 5.					

Date :

(Signature of the Bidder)

SEAL

Address

Ph.

Mobile :

FAX

PAN NO.

(Use extra sheet for additional information, if necessary).

ANNEXURE – I

Office Items

Sl No.	Item	Specification	Quantity
1.	Desktop Computer	INTEL Dual Core 2 GB HDD 500 GB DVD R/W 19.5” LED // Keyboard and Mouse	12
2.	Laptop	INTEL 5 th Gen I5 (52000)2GB (2GB Graphics) 1TB DVD R/W Keyboard with N-Pad, (W-LAN & Bluetooth)	2
3.	Multimedia Projector	2800 Lumens with HDMI Support + Screen	2
4.	3M Pocket projector	MP 180	1

Laboratory Equipments

Sl. No.	Item	Specification	Quantity
1.	Power tiller	Brand new 9 to 15 HP water cooled diesel engine with tiller tynes, cage wheels, tail skid, tail wheel, service and log book.	1
2.	Cut-section working model of tractor (operated by Electric motor)	Made out of original used parts, will be suitably sectioned and arranged to demonstrate the internal construction details showing the minute information such as engine, clutch, gearbox, PTO, steering gear box, bell assembly, tyre rod, linkages, stub axle etc., and working of the same can be shown by steering the steering wheel provided, the model will be suitably painted and the entire model is mounted on a sturdy steel frame.	1
3.	Cut-section working model of single cylinder 4-stroke diesel engine	Made out of full size original engine. The Maximum parts and accessories of the engine like cylinder block, Cylinder heads, valve ports, piston, connecting rod, inlet and exhaust manifolds, throttle body, fuel system, lubrication system, water pump, radiator, oil pump, oil pan, air filter etc are sectioned to clearly demonstrate the internal constructional details. Fly wheel is also provided, so that by rotating the fly wheel the entire function of the engine can be demonstrated. The whole system is mounted on to a sturdy steel frame, and the frame will be provided with caster wheels for easy movement of the entire model.	1
4.	Cut section working model of sliding mesh	This mode is made out of original full size gearbox, suitably sectioned to show the gear mechanism of forward and reverse speeds. A Crank lever is provided	1

	gear box of tractor	to demonstrate the mechanism. Complete unit is mounted on a sturdy steel frame.	
5.	Tractor engine	Brand new multi-cylinder water cooled diesel engine of 35 hp tractor. The water cooling, starting, accelerating arrangements should be included.	1
6.	Tractor operated seed drill	9 row seed drill with fluted roller seed metering mechanism and fertiliser metering mechanism.	1
7.	Engine / Tractor operated paddy thresher	Axial flow thresher for paddy crop with sieve shaker and blower	1
8.	Bench grinder	Double wheel bench grinder for the servicing workshop.	1
9.	Pillar drilling machine	Drill for making holes upto 25 mm for the servicing workshop. The drill bits of all sizes upto 25 mm should be included.	1
10.	Power hack saw	Mechanical power hack saw with blade of 60 mm for the servicing workshop.	1
11.	Bench Shear	12 inch shear plate with sine hand lever for the servicing workshop.	1
12.	Arc welding machine along with complete accessories	Complete welding set with welding transformer, Electrode holder, welding table, electrodes, filler metal, goggle, gloves, welding cable.	1
13.	Table top Refractrometer	Brix range 0 to 95%, accuracy +/-0.1%,	2
14.	Water bath	Digital control, temperature upto 150°C, 19 L capacity	1
15.	Hot air oven	Hot air oven with three sides heating elements. Inner chamber is made of highly polished stainless steel. Outer chamber is made of mild steel sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable powder coated paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring – loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos. Heating elements are made of high grade imported Ni chrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space. Temperature is controlled by an electronic digital temperature controller-cum-indicator, provided with air circulating fan for providing homogenous temperature throughout the chamber with wide temperature 50°C to 300°C (+/- 1 ⁰ C) ovens for various applications. Air ventilator ports provided on both sides at top to	2

		<p>ventilate, gases and fumes if any.</p> <p>Control Panel: The equipment should provided with a panel having a digital temperature control knob. ON/OFF switch, two pilot indication lights and provision for fixing the TIMER with alarm. Supplied with cord and plug. Suitable to operate on 220 V single phase, 50 Hz, AC supply.</p> <p>Inner Chamber: 605 x 910 x 605 (mm) S.S. (304 grade)</p> <p>L shaped Thermometer: Temperature to be adjusted with reference to thermometer.</p>	
16.	Paddle operated pouch sealing machine	Length 12” to 32”, upto 10 mm sealing power. Separate panel box for sealing timer, sealing indicator and power indicator system.	1
17.	Spectrophotometer	<p>Wavelength : 350 to 950 nm, Support for fluorescence: Two excitation sources centered at 405 nm and 500 nm, Reported Wavelength Interval: ~1 nm between reported values (collects 570 values), Optical Resolution: 4.0 nm (as determined with 656 nm hydrogen emission spectral line FWHM) and 25 nm (as determined with 486 nm hydrogen emission spectral line FWHM), Wavelength Accuracy: +/- 3.0 nm (at 650 nm) and +/- 7.0 nm (at 450 nm), Photometric Accuracy: +/- 13.0% (as determined with nickel sulfate standards from 0.1 to 1.0 A.U.), Dimensions: 15 cm x 9 cm x 4 cm, Light Sources: Incandescent white bulb, approximately 8000 hour lifetime, one-step calibration. LED-based, approximately 100,000 hour lifetime. No external power is required.</p>	1
18.	Distillation unit	Double stage with auto cut-off, quartz heater, cooling water requirement: 60 L/h, Output: 4 L/h. Useful for the distillation of oil and other liquids.	1
19.	Optical microscope	<p>Total Magnification: 40-1600X Viewing Head: Compensation free Binocular Sidentopf Head inclined at 30° rotatable, Antimould 360°. Eyepiece: WF10X /20mm,P16X pair. Quadruple Nose Piece. Semi plan Achromatic Objective 4X, 10X, 40X(SL), 100X (SL) oil. Double layer Mechanical Stage 140 x 140 mm / 75 x 50mm. Coaxial Coarse & fine focusing adjustment system, Moving range 23mm, fine division 0.002mm.Abbe type 9 eproduci NA 1.25 with IRIS Diaphragm & Filter. Built in Illumination Halogen lamp 6V 20W brightness Adjustable Intensity controller. Focusing lock: Focusing lock is Provided with the coarse focusing Knob. It is used to arrest the Up-ward movement of the Stage so as to eradicate the Damage of slide and Objective Lenses. Optional attachments: Drawing attachment with eye piece set or multi viewers.</p>	1
20.	Soxhlet apparatus	Extractor capacity: 200 ml, Flask capacity : 300 ml, thimble area 43 mm (123 mm) Microprocessor based.	1

21.	Micro-Kjeldal apparatus	Standard apparatus for the determination of nitrogen and protein content. Digitally controlled, microprocessor based, Digestion and distillation unit inter-linked.	1
22.	Sieve shaker	Standard sieved shaker with heavy electric motor and sieves of 2 micron to 2 mm.	1
23.	Abrasive potato peeler	Peeler for most firm products such as potatoes, beets, carrots, etc and should be designed to peel small and large products. It should have removable abrasive (#16 grit) coated liner inside the main body. The drum should be approximately 20" high and 19" in diameter. The batch running time should be preset for consistent operation. The Batch Abrasive Potato Peeler should be mounted on 2 rigid casters and 2 legs. An easy grip handle should allow the unit to be tilted backward on the wheels and move. Stainless steel construction. Built-in timer prevents over-peeling and waste. Capacity is approximately 10-15 pounds. Lower disc plate should be easily removed for cleaning. Removable drain basket to collect solids.	1
24.	Table top huller cum sheller	Hulling and polishing operation should be integrated. Operated by 220-230 V AC input. Detachable hopper, sieves, rollers and legs. Should be supplied with sieves of different sieve sizes.	1
25.	Single screw extruder	Should be capable to transport and shape multiple ingredients into a uniform food product by forcing the ingredient mix through a shaped die. It should consist of three zones: feeding zone, kneading zone, cooling zone. It should have controllable processing conditions to achieve a variety of effects on temperature and residence time. The residence time in the barrel can vary from 15 to 300 seconds, determined by increasing or decreasing the speed of the shaft.	1
26.	Dough mixer	Should consists of mixing chamber of 2 litre volume, kniding shaft and scrapper. Whole body should be made up of stainless steel. Input voltage requirement: 220-230 V. Should meet the requirement of a baking unit	1
27.	Cabinet dryer	Cabinet dryer of 5 numbers of trays of stainless steel. Tray dimensions: 2ft x 3ft. Tray volume 200 litre. Integrated with stabilizer or should be supplied with appropriate stabilizer.	1
28.	Garbour centrifuge	Centrifuge machine for milk fat determination. Integrated rpm controller and digital display. Should be supplied with additional set of centrifuge tubes.	1
29.	Vacuum oven	Vacuum oven with three stainless steel trays with perforation. Temperature range 40 to 200°C. Vacuum pump of appropriate capacity should be supplied together.	1
30.	Rotary vacuum evaporator	Standard machine to evaporate, distill, separate and purify liquids. Useful to concentrate, capture and infuse	1

		flavors in the kitchen. Utilize a vacuum pump to reduce atmospheric pressure allowing liquids to move to a vapor phase at low temperatures. Simultaneously, a rotating flask creates greater surface area of thin film facilitating rapid evaporation. That vapor is then condensed by coils cooled by a recirculating chiller and collected in a receiving flask. It should be customized for culinary application.	
31.	Cork sealing machine	Heavy duty hand operated unit with magnetic cork holder. The machine is easy in operation and can adjust to all sizes of bottles. It is for application in chemical, pharmaceuticals and food industries. The hand operated crown corking machines and can be used with a variety of bottles ranging from 200 ml to 1 liter for a standard crown neck of 28 mm.	1
32	Canning machine	Standard machine for canning and sealing	1
33	Baking oven	Standard oven for baking bread, cakes, biscuit etc. in a small bakery unit.	1