**BHARATHIAR UNIVERSITY: COIMBATORE 641 046**

**TENDER NOTICE**

**Ref.No. C7 /CRTD/Botany /TANSCHE /385 / 2021 Date: 01.11.2021**

Sealed Tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 up to 3.00 P.M on **25.11.2021** from the reputed firms for the supply of  **Plant** **Growth Chamber** to the **TANSCHE** **Project, Dept.of Botany.**

 Tender documents can be downloaded from our website [www.b-u.ac.in](http://www.b-u.ac.in) **from 02.11.2021 to 25.11.2021 . The tenders shall be submitted along with the tender cost of Rs. 1575/- and EMD of Rs.19,000/- in the form of DD drawn in favour of the Registrar, Bharathiar University payable at Coimbatore**

 **REGISTRAR i/c**

 **BHARATHIAR UNIVERSITY**

**BHARATHIAR UNIVERSITY –COIMBATORE 641 046**

**TENDER TERMS AND CONDITIONS**

1. Sealed Tenders will be received by the **Registrar, Bharathiar University from the reputed firm** up to **3.00 p.m. on 25.11.2021** for the **supply of Plant** **Growth Chamber** for the **TANSCHE** **Project, Dept.of Botany as specified in the schedule**
2. Tender should be addressed to the Registrar, Bharathiar University and should be only in sealed covers by Registered post/ or in person. Tenders received in ordinary covers without seal will not be considered.
3. The tender shall be submitted with **Ref. No. should be superscribed as “Tender for the supply of Plant** **Growth Chamber**, **TANSCHE** **Project, Dept.of Botany Due on 25.11.2021**. The covers received without such superscription will be rejected summarily.
4. Tender shall be accompanied with the **requisite tender cost of Rs. 1575/- and EMD Rs. 19,000/- in the form of DD drawn in one of the Nationalised Banks in the name of “Registrar**, **Bharathiar University” payable at Coimbatore**. **Cheques and Bank Guarantee will not be accepted**
5. Tenders without EMD shall be summarily rejected. EMD will not carry any interest. If tenderers specifically exempted by the Government from the payment of earnest money deposit /tender cost necessary certificate should be enclosed for exemption otherwise it will be liable for rejection
6. **The tenders will be opened on 25.11.2021** **at 4.00 p.m. by the Registrar or his/her nominee in the presence of the tenderers** or their representatives who may be present at the time of opening. The representatives of the tendering firms who are attending during opening of the tenders should bring **a letter of authorization** from the tendering firms, which they represent to identify their bonafied

 If the tenderers are unable to participate at the time of tender opening kindly be informed to the

 Registrar through mail **purchasesection4@gmail.com**

 Tenders received late i.e. after 3.00 p.m. on due date will be returned to the tenderer unopened.

1. The tender shall be valid for a maximum period of 180 days from the date of opening of the tender in acceptance .
2. If the tender validity is less than 180 days the tender will be rejected as non-responsive tender. Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after it opened, the EMD will be forfeited and black listed.
3. The rate should be quoted for item with specification and model if applicable and should be indicated clearly both in words and figures. Any scoring of overwriting should be attested by the tenderers with full signature. The rate quoted should be firm and should not subject to any variation clauses.
4. The EMD of the unsuccessful tenders will be refunded immediately after the tenders are a disposed of by the competent authority.
5. Successful tenderer shall execute an agreement for the fulfillment of contract in the Rs.100/- stamp paper of TamilNadu as per the model format. The conditions stipulated in the form should be strictly adhered to and violation of any of the conditions will entail termination of the contract without prejudice to be right of the University and to recover any consequential loss from the successful tenderer.. If failed to provide the agreement, then the EMD and Security deposit will be forfeited
6. .**Successful tenderer shall remit a Security deposit 5.5% to the order value**. The EMD will be refunded to the successful firm after remittance of security deposit or it may be adjusted towards Security deposit. Security Deposit will be refunded at the end of warranty period as per the purchase order subject to the satisfaction of the University.
7. If the Successful tenderer failed to act up to the tender or backs out when his tender accepted the EMD will be forfeited
	1. The material should be supplied strictly in accordance with the specifications given in the Schedule and should fulfill the successful tests carried out by the Competent Authority of the University. The supply and installation should be made as per the delivery schedule to be sent by the Registrar along with the exact location of the work. The guarantee period shall take effect from the date of installation . Successful tenderer shall be liable to change any defective part during the warranty period. In either case the damaged or defective items will have to be taken back at supplier’s cost and risk.
8. The installation should be completed within the stipulated period mentioned in the supply order. If the supply is not made within the period, the supply order will be cancelled and the EMD & Security deposit will be forfeited.
9. The materials are to be guaranteed as per the required warranty period . The warranty period specified will commence from the date of installation .
10. The materials quoted shall confirm to ISI standard. The make of the materials shall be mentioned in the tender.
11. Any dispute arising out of this contract shall be settled only at the court having jurisdiction of Coimbatore.
12. The authority competent to accept the tender reserves the right to reject or accept any tender without assigning any reasons thereof.
13. Regarding the acceptance of supply with reference to the specification and quality of materials supplied, the decision of Registrar shall be final.

**20) Price:**

**a)For Imported:**  The Price shall be quoted in Currency for CIF Chennai /CIP Chennai / FOR Coimbatore..

**b)For Indigenous** : Quote the price in INR + GST , packing , transportation and warranty. Separate charges for warranty will not be considered at any cost ,

1. The University is registered with DSIR and eligible for exemption towards customs duty as per the Government Notification No: 51/ 96 Customs Dt.23.7.1996.and Central excise duty as per Government Notification No.10/97 Central Excise Dt: 1.3.1997. Central Excise Dt: 1.3.1997. The GST and IGST will be paid as per Govt Notification No.45/2017 –Central Tax (Rate) &47/2017-Integrated Tax(Rate) dated 14.11.2017 : NO. 9/2018-Central Tax(Rate), No.09/2018- Union Territory Tax(Rate) & No.10/2018 – Integrated Tax(Rate) dated 25.01.2018: and State Tax(Rate).
2. The customs duty after providing duty exemption certificate (DSIR) if applicable as per customs tariff for the said equipment shall be paid by the local supplier /Clearing agent at the time of Customs clearance which will be reimbursed subject to the condition on submission of original customs bills to the University after delivering the equipment to the department concerned..
3. The Customs clearance , transportation and delivery charges up to the University have to be borne by the firm. Necessary documents will be provided after receipt of original invoice/Cargo Arrival/Shipment notice from the Principal Supplier
4. **PAYMENT** :
	1. If the quoted price in currency . The payment will be made by irrevocable Letter of Credit (LC) (OR) Currency wire transfer in favor of the Principal Supplier (only after supply ) Advance Currency Wire transfer is not applicable
	2. If the quoted price in INR, the payment will be made after supply and installation. No

 advance payment will be made .

1. **Additional Documents required**
	1. GST Number along with the copy of the registration Certificate
	2. PAN Number along with the copy of PAN
	3. Company Profile.
	4. Copy of the supply order and installation record at reputed institutions / organizations and sufficient service back-up in Tamil Nadu
	5. Any other relevant details in support of the item specified.
	6. Full descriptive particulars and manual of the equipment
2. The University will not offer any explanation to those tenderers whose bid has not been

found acceptable by the competent authority

1. The University’s general rules for the supply of the materials and works will apply on

 this purchase also.

1. No communications from any tenderer adding to/adhering or explaining any terms of
2. the tender will be considered prior to the submission or after opening of the tenders by the

 competent authority

1. In case of any modifications in specifications/terms and conditions/ any clarifications to the bid document it will be hosted in our website only and bidders are requested to log on to our website from time to time regularly for any amendment and no separate corrigendum will be issued in this regard.
2. The tender shall be submitted along with the downloaded tender documents subject to and agreeing the above conditions duly attested and certified.

**TO BE FILLED IN BY THE TENDERER:**

|  |  |
| --- | --- |
| **Tender Cost** | **EMD** |
| **DD No /Date** | **Amount** | **DD No/Date** | **Amount** |
|  |  |  |  |

 **SIGNATURE OF THE TENDERER**

 **SCHEDULE**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Specifications** |  **Qty** | **Price**  |
|  | * **Plant growth chamber :** Volume: 2000 L and above
* **Range:** Temperature Range: 10°C to 35°C when Lights are On & 5°C to 35°C when Lights are turned Off Humidity Range: 40% RH to 90% RH when Lights are On & Off or better
* **Construction:** Doubled walled, PUF insulated, leak-proof modular panels with cam & lock arrangement for easy assembly at on-site. The thickness of PUF should be 80 mm or more exterior mild steel
* **Racks & shelves:** Stainless Steel shelves,Trays:8 nos or more
* **Lighting:** LED lights, Day/ night programmable cycle.

Micromole must show in display along with power sensor* **Conditioning Unit:** Complete with tangential blowers, dry heater, ultrasonic humidity system, evaporation (cooling) coil, standby cooling coil (if applicable).
* **Door:** Full length inner glass door to view the stored samples and outer metal door with gasket, lock & key.
* **Heating System:** Long lasting U-shaped Stainless Steel tubular heaters should be used as a heating element. These heaters should be provided with fans for better heat transfer
* **Cooling System :** CFC free cooling system consisting of hermetically sealed compressor coupled with evaporation coil and fan-cooled condenser to provide efficient cooling in the chamber. The refrigerant used should be R134A.

The compressor needs to be safeguarded with time delay.* **Humidity System:** Humidity is by steam injection

 Humidity system should contain reservoir tank & humidifier  tank, fitted with two nos. of humidifier heaters - One works  as primary and other as standby.Upon fault detection, system should automatically switches  over to the other heater & raises an alarm. The reservoir tank should contain a float valve to maintain the water level & give an alarm upon low water level. The reservoir tank should be connected to a continuous supply of soft water (preferably DM water).* **Humidity system must be ultrasonic generator humidification**
* **Temperature and Humidity Sensor:** High-Quality Temperature and Humidity combo sensor with universal 4-20mA output.Temperature should be displayed in °C with 0.1°C resolution. Humidity must be displayed in %RH with 0.1%RH resolution chamber
* **Air Circulation:** Unique bottom to top Forced air circulation system must be provided to maintain uniform it throughout the equipment.
* **Display:** The Display or HMI (Human Machine Interface) should be of 4.4 inches Colour Touch Screen display showing values of temperature and humidity of all probes.

 **Other important features required:** PLC IP Address setting Component Working Hours Standby system change over Password protection for set values & calibration mode User Manual, Troubleshooting & Preventive Maintenance  procedure Display of Alarms & its history Controls access to door opening.  User password protection to unlock the door from outside  and Control access to up to 25 users. Tracking of door activities.* **Alarm Generation :** Audio and visual alarms should be generated for Temperature deviation (High and Low)

 Humidity deviation, Door Opening, Utility failure, Mains  failure, Water supply failure & Component Failure (Circuit  Failure).The software must provide all important features such as Data Logs, Alarms, Audit Trails, and Auto Backup.* **Numerical Door Access System to restrict access to authorized users only**
* Should include CO2 display 0 to 1000 PPM
* Provide RO units as per the chamber require
* Servo stabilizer as per chamber power should accompany the instrument.
* **UPS power supply with 10 hours backup**
* **Optional**
* Instrument plug & play basis.
* GMP- compliant, tamper – proof documentation of measuring data
* Fully 21 CFR Part 11 Ready
* Ethernet communication with PLC
* Controlling and recording of all the chambers
* Life time software should be free support even up gradation
* One Desktop computer
* Instrument must have a warranty of 3 years with free service visit every six months.
* Tender quotation must be submitted with authorization letter from Principle /Direct Manufacture along with tender references
* When we are moving to new building /Facility at the time dismantle & reinstallation must be free of cost.
* Tender should be submitted along with compliances statement.
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**SIGNATURE OF THE TENDERER**