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वेबसाइट - [www.cus.ac.in](http://www.cus.ac.in)



**सिक्किम विश्वविद्यालय**  
**SIKKIM UNIVERSITY**

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(A central university established by an Act of Parliament of India in 2007 and accredited by NAAC in 2015)

### **LIMITED TENDER NOTICE**

**Reference No.: SU/HORT/F-1/06-8/2018/Vol-II**

**Date: 02/11/2018**

**Limited Tender Notice for supply of AUTOCLAVE (VERTICAL), BOD INCUBATOR, and HOT AIR OVEN for IERP Project at Department of Horticulture, Sikkim University**

Sealed Quotations in prescribed format are invited from eligible and authorized agencies for the supply of **AUTOCLAVE (VERTICAL), BOD INCUBATOR, and HOT AIR OVEN** for IERP Project at Department of Horticulture, Sikkim University under the Project entitled "Bio-control of fungal disease of large cardamom (*Amomum subulatum*) using antagonistic microorganism(s)/ botanicals/ indigenous traditional knowledge based formulation", as per the details given below:

Sl. No.	Items	Descriptions	Quantity
1	<b>AUTOCLAVE (VERTICAL), ALL STAINLESS STEEL</b>	<b><u>Specification</u></b>  1. Boiling Chamber : Made of Stainless Steel 12 SWG AISI 304 Grade. 2. Ring : Made of Stainless Steel 12 mm AISI 304 Grade. 3. Lid : Made of Stainless Steel 12 mm AISI 304 Grade s tightened with swing nuts and bolts. 4. Outer Jacket: Made of Stainless Steel 16 SWG AISI 304 Grade with highly polished. Paddle lifting for lid & legs. 5. Lid lifting: Paddle lifting device. 6. Basket: Stainless Steel perforated for putting materials inside the autoclave(20" Dia x 13" Deep & 20" Dia 12" Deep). 7. Heaters: Industrial type Immersion heater. 8. Temperature: 100 to 140 degree Centigrade. 9. Gasket: Silicon Gasket 10 Fittings: Pressure Gauge, Safety valve, Pressure release cock etc with plug & cable. 11. Pressure: Operating Pressure 15 to 30 PSI Max. 40 PSI. 12. Electricity: 220/230 V. AC 13. Boiler Size : 22" Dia X 30" Deep(Cap Approx 152 Lit) 14. Weight: 75 KG (Approx)  <b><u>COMPLETE WITH FOLLOWING ACCESSORIES:</u></b>	One (01)

		<p><b>A.) AUTOMATIC PRESSURE CONTROL SWITCH(PIEZOSTAT)</b> : This functions interlocking the heaters on set operable pressure thereby saving electrical energy and ensuring safety in operation.</p> <p><b>B) BUILT IN DIGITAL TEMPERATURE INDICATOR CUM CONTROLLER RANGE 0 to 199.9°C, Resolution 0.1°C WITH DIGITAL TIMER RANGE 0-99 MINUTES WITH AUDIO VISUAL ALARM.</b></p>	
2	<b>BOD INCUBATOR</b>	<p><u>Specification</u></p> <ol style="list-style-type: none"> <li>1. BOD incubator, with LOW &amp; HIGH temperature and precise electronic digital temperature control panel.</li> <li>2. Material of Construction Interior Cabinet S.S. 304 Grade, Exterior Cabinet : M.S. with Powder Coated, PUF Insulation. Powerful fan motor for forced air circulation to maintain uniform condition inside chamber.</li> <li>3. Temperature range 5°C to 60°C.</li> <li>4. Accuracy/ Uniformity <math>\pm 0.1^\circ\text{C}/\pm 0.5^\circ\text{C}</math>. Safety : Provided to cut off heater above 70°C with audio visual alarm. Door open alarm. Display Control : PID LED Digital Temperature Controller with resolution 0.1°C with non volatile storage memory for the set point.</li> <li>5. Sensor failure alarm. Refrigeration : CFC free compressor utilizing R134a Ecofriendly refrigeration.</li> <li>6. Observation : Inner transparent acrylic door and outer door key lockable.</li> <li>7. Feet : 4 Nos Castor wheels.</li> <li>8. Capacity 300L, 4 Nos-Perforated Stainless Steel Shelves.</li> <li>9. Inner Chamber Dimension - 24" W X 24" D X 36" Ht</li> <li>10. Outer Dimension - 30" W X 34" D X 66" Ht</li> <li>11. Weight(Approx)- 100 KG</li> </ol>	One (01)
3	<b>HOT AIR OVEN</b>	<p><u>Specification</u></p> <ol style="list-style-type: none"> <li>1. Tripple Walled Construction, Inner chamber is made of Stainless Steel AISI-304 Grade, Outside made of Mild Steel with powder coated paint.</li> <li>2. The Central wall is made of Stainless Steel.</li> <li>3. The space between the outer and central wall is press-filled with glass wool insulation to prevent heat loss during operation.</li> <li>4. Double walled single door with hinges and handle.</li> <li>5. Tubulature for thermometer and air regulator on top.</li> </ol>	One (01)

		<p>Kanthal heaters are distributed on bottom and two sides.</p> <p>6. Temperature is controlled by Microprocessor Based Programmable Digital Temperature Indicator cum controller with PT-100 sensor range 5°C above ambient to 400°C. Accuracy <math>\pm 0.1^\circ\text{C}</math>.</p> <p>7. One Circulating fan is fitted at the side/back for uniform temperature of the inner chamber. Over temperature and temperature difference alarms.</p> <p>8. MECHANICAL CONVECTION TYPE, ELECTRIC FOR 220/230 V. AC.</p> <p>9. Complete with stainless steel shelves, timing function, Cord, Plug, etc.</p> <p>10. Inner Chamber Size – 24"W x 24 "D x 36"Ht</p> <p>11. Outer Chamber Size – 39"W x 30"D x 46"Ht</p> <p>12. Weight: 75 KG (Approx).</p>	
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### **Terms and Conditions**

1. Sealed quotation should be submitted along with Covering Letter, Annexure I – Company Profile (with signed photocopies of relevant supporting documents) and Annexure II – Technical and Financial bid (signed and sealed in official letter head) along with the datasheets of the products.
2. The sealed envelope should be with Reference No.: SU/HORT/F-1/06-8/2018/Vol-II with the text written as "Quotation for supply of **AUTOCCLAVE (VERTICAL), BOD INCUBATOR, and HOT AIR OVEN** for IERP Project at Department of Horticulture, Sikkim University".
3. The products quoted should be of specified make and model as described above and with clearly mentioned warranty duration.
4. During warranty period, the troubleshooting should be taken care of online or visiting the venue of the installation whatever the case may be without delay which should not take more than a week to restore the functioning of the system.
5. An amount of ₹ 4000/- (Rupees Four Thousand Only) as Earnest Money Deposit (EMD) should be remitted through NEFT from any scheduled/nationalized bank favouring Sikkim University to the account details mentioned below:

#### **Bank account details for NEFT transaction is as follows:**

- I. **Account Holder's Name: Sikkim University**
- II. **Account No: 112010100231541**
- III. **Account Type: Savings Account**
- V. **Branch: Gangtok [SK]**
- VI. **Bank Name: AXIS Bank**

6. The bidder registered with Micro and small scale enterprises(MSEs) are exempted from submitting bid security/EMD based on guide line issue by department of Micro, small and medium Enterprises (MSME).
7. The delivery of goods would be done at the risk and cost of the supplier and all products delivered would be approved only after the examination of the same is done by the University.

8. Bid should be strictly submitted as per the format given in Annexure I and Annexure II in the official letterhead of the firm. Any alteration of the bid format will result in disqualification of the quote.
9. The bidder should mandatorily provide documents supporting their credential of work having similar nature and value of product.
10. The rate should be quoted including all costs such as labour charges, materials, installation, transportation etc. No other extra charges will be entertained under any circumstances over and above the total cost quoted in the financial bid.
11. The point of delivery and installation is Department of Horticulture, Sikkim University, 6<sup>th</sup> Mile Tadong, Gangtok, Sikkim, Pin: 737102.
12. All support related to maintenance and service should be onsite during the warranty period.
13. The supplier should provide the certificate of originality at the time of delivery of the goods.
14. The items should be supplied within 30 days of receiving of the supply order failing which delay penalty will be charged @ 1% per week subject to a maximum of 10% will be charged on the total supply cost. More delay in supply may result in cancellation of order.
15. Payment will be made after successful delivery, installation and inspection of the goods.
16. All bidding documents should be sent to the University in a sealed cover by hand or registered/speed post at the below postal address on or before the last date 23/11/2018 and should be addressed to:

**Dr. Niladri Bag**  
**Associate Professor**  
**Department of Horticulture**  
**Sikkim University**  
**Samdur, Tadong**  
**Gangtok Sikkim.**  
**Pin: 737102**

17. Participating firm may contact Dr. Niladri Bag (Principal Investigator) Department of Horticulture, Sikkim University at 8900457301 for any queries related to the tender.
18. Arbitration of all disputes related to the procurement, delivery and service of the goods would be in the Gangtok jurisdiction, Sikkim.
19. The Registrar, Sikkim University, has the power to reject any tender or all tender or extend the date of opening of tender without citing any reasons. Decision of The Registrar, Sikkim University will be final and binding to all tenderers.

Sd/-  
Registrar

**Note: All page(s) of Annexure I and Annexure II have to be printed in official letter head and have to be duly signed and stamped by the authorized signatory.**

## **Annexure-I**

### **COMPANY PROFILE AND FEE DETAILS**

**Supplier's Ref. No:**

**Dated.....**

**Tender Reference No.: SU/HORT/F-1/06-8/2018/Vol-II**

**Dated: 02/11/2018**

#### **FOLLOWING DETAILS ARE TO BE FURNISHED BY THE BIDDING FIRM**

1. Name of the Firm:
2. Address of the Firm:
3. Contact no:
4. Email address:
5. Registration details:
6. Permanent Account Number:
7. G.S.T number :
8. Bank Account details including Account Number, Bank name, Branch name & IFSC code:
9. EMD fee details – Name of Bank .....NEFT no.  
..... Date: ..... Amount.....

#### **Declaration:**

I/We hereby declare that I/We have read & understood all the terms & conditions mentioned in the E-tender notice and I/We undertake myself/ourselves to abide by them.

I/We further, declare that all the information given above is true.

**Name:**

**Designation:**

**[Official Seal with authorized signature]**

**Place:**

**Date:**

## Annexure II

### TECHNICAL BID in respect to

**Limited Tender Notice for supply of AUTOCLAVE (VERTICAL), BOD INCUBATOR, and HOT AIR OVEN for IERP Project at Department of Horticulture, Sikkim University**

Supplier's Ref. No..... Dated.....

Tender Reference No.: SU/HORT/F-1/06-8/2018/Vol-II

Dated: 02/11/2018

FOLLOWING DETAILS ARE TO BE FURNISHED BY THE BIDDING FIRM

**Table 1: Product Make and Model**

Sl .No.	Item List	Quantity	Quoted product Make/Model
1	AUTOCLAVE (VERTICAL), ALL STAINLESS STEEL	1	
2	BOD INCUBATOR	1	
3	HOT AIR OVEN	1	

**Table 2: Eligibility criteria fulfilment**

Sl. No.	Name of the item	Advertised Requirement and OEM authorization for supply and warranty.  Please state in (Yes/No) whether the quoted product in table 1 fulfils the product eligibility criteria as per the advertised requirement.	Yes/ No
1	AUTOCLAVE (VERTICAL), ALL STAINLESS STEEL	1. Boiling Chamber : Made of Stainless Steel 12 SWG AISI 304 Grade.	
		2. Ring : Made of Stainless Steel 12 mm AISI 304 Grade.	
		3. Lid : Made of Stainless Steel 12 mm AISI 304 Grade s tightened with swing nuts and bolts.	
		4. Outer Jacket: Made of Stainless Steel 16 SWG AISI 304 Grade with highly polished. Paddle lifting for lid & legs.	

		5. Lid lifting: Paddle lifting device.	
		6. Basket: Stainless Steel perforated for putting materials inside the autoclave(20" Dia x 13" Deep & 20" Dia 12" Deep).	
		7. Heaters: Industrial type Immersion heater.	
		8. Temperature: 100 to 140 degree Centigrade.	
		9. Gasket: Silicon Gasket	
		10. Fittings: Pressure Gauge, Safety valve, Pressure release cock etc with plug & cable.	
		11. Pressure: Operating Pressure 15 to 30 PSI Max. 40 PSI	
		12. Electricity: 220/230 V. AC	
		13. Boiler Size : 22" Dia X 30" Deep(Cap Approx 152 Lit)	
		14. Weight: 75 KG (Approx)	
		<b>15. AUTOMATIC PRESSURE CONTROL SWITCH(PIEZOSTAT) : This functions interlocking the heaters on set operable pressure thereby saving electrical energy and ensuring safety in operation.</b>	
		<b>16. AUTOMATIC PRESSURE CONTROL SWITCH(PIEZOSTAT) : This functions interlocking the heaters on set operable pressure thereby saving electrical energy and ensuring safety in operation.</b>	
		<b>17. Warranty</b>	
2	<b>BOD INCUBATOR</b>	1. BOD incubator, with LOW & HIGH temperature and precise electronic digital temperature control panel.	
		2. Material of Construction Interior Cabinet S.S. 304 Grade, Exterior Cabinet : M.S. with Powder Coated, PUF Insulation. Powerful fan motor for forced air circulation to maintain uniform condition inside chamber.	
		3. Temperature range 5°C to 60°C.	
		4. Accuracy/ Uniformity $\pm 0.1^{\circ}\text{C}/\pm 0.5^{\circ}\text{C}$ . Safety : Provided to cut off heater above 70°C with audio visual alarm. Door open alarm. Display Control : PID LED Digital	

		Temperature Controller with resolution 0.1°C with non volatile storage memory for the set point.	
		5. Sensor failure alarm. Refrigeration : CFC free compressor utilizing R134a Ecofriendly refrigeration.	
		6. Observation : Inner transparent acrylic door and outer door key lockable.	
		7. Feet : 4 Nos Castor wheels.	
		8. Capacity 300L, 4 Nos-Perforated Stainless Steel Shelves.	
		9. Inner Chamber Dimension - 24" W X 24" D X 36" Ht	
		10. Outer Dimension - 30" W X 34" D X 66" Ht	
		11. Weight(Approx)- 100 KG	
		12. <b>Warranty</b>	
3.	<b>HOT AIR OVEN</b>	1. Tripple Walled Construction, Inner chamber is made of Stainless Steel AISI-304 Grade, Outside made of Mild Steel with powder coated paint.	
		1. The Central wall is made of Stainless Steel.	
		2. The space between the outer and central wall is press-filled with glass wool insulation to prevent heat loss during operation.	
		3. Double walled single door with hinges and handle.	
		4. Tubulature for thermometer and air regulator on top. Kanthal heaters are distributed on bottom and two sides.	
		5. Temperature is controlled by Microprocessor Based Programmable Digital Temperature Indicator cum controller with PT-100 sensor range 5°C above ambient to 400°C. Accuracy $\pm 0.1^{\circ}\text{C}$ .	
		6. One Circulating fan is fitted at the side/back for uniform temperature of the inner chamber. Over temperature and temperature difference alarms.	
		7. MECHANICAL CONVECTION TYPE, ELECTRIC FOR 220/230 V. AC.	
		8. Complete with stainless steel shelves, timing function, Cord, Plug, etc.	
		9. Inner Chamber Size – 24"W x 24 "D x 36"Ht	
		10. Outer Chamber Size – 39"W x 30"D x 46"Ht.	
		11. Weight: 75 KG (Approx).	
		12. <b>Warranty</b>	



**Declaration:**

I/We hereby declare that I/We have read & understood all the terms& conditions mentioned in the E-tender notice and I/We undertake myself/ourselves to abide by them. I/We further, declare that all the information given above is true and the Financial bid BOQ has been quoted in compliance to the item specifications listed above in Annexure II (Technical Bid).

**Name:****Designation:****[Official Seal with authorised signature]****Dated:****Place:**

**Table 3: DETAILS HAS TO BE FURNISHED BY THE BIDDING FIRM FOR FINANCIAL BID**

Ref. No.: SU/HORT/F-1/06-8/2018/Vol-II

Dated: 02/11/2018

Sl. No.	Item Description	Quantity	Rate (in Rs.)	Applicable GST amount (Rs.)	Any Other Taxes/ Duties / Levies (Rs.)	Total Amount (Without Taxes) (Rs.)	Total Amount (With Taxes) (Rs.)
1	AUTOCLAVE (VERTICAL), ALL STAINLESS STEEL	1					
2	BOD INCUBATOR	1					
3	HOT AIR OVEN	1					
	Total Cost (in Rs)					Without Taxes (Rs.)	With Taxes (Rs.)

**Declaration:**

I/We hereby declare that I/We have read & understood all the terms & conditions mentioned in the Notice Inviting the sealed quotations and I/We undertake myself/ourselves to abide by them. I/We further, declare that all the information given above are true and the quoted products are in compliance to the item specifications listed above in Annexure II (Technical and Financial Bid)

**Name:****Designation:****Signature:****[Official Seal]****Place:****Date:**