

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM (IISERTVM) (Govt. of India, Ministry of H.R.D)

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[Address List]

Date: 30th March 2015

INVITATION TO TENDER(IND) No: IISER/PUR/5582/14 Due Date: 16th April 2015 [4PM] Date of Opening: 17th April 2015 [3PM]

Dear Sirs,

Sub: Supply of Drosophila Growth Chambers.

We require the following items immediately:

Sl No:	Item/ Description	Qty	
	Drosophila Growth Chambers	2 Nos.	
	(Specifications as per Annexure – I)	Z 110S.	

Please quote your lowest rate and shortest delivery period as per the following terms. Your offer in sealed cover <u>SUPERSCRIBING</u> <u>TENDER</u> <u>NUMBER</u> <u>AND</u> <u>DUE</u> <u>DATE</u> shall reach us on or before the due date and time. Please follow strictly the "Instructions to Tenderers attached".

EMD	: Rs.34,400/- in the form of DD or BG to be submitted along with the quote. Quotes received without EMD will be rejected summarily.	
Payment	: Within 30 days after supply and installation/Net 30 days /LC.	
Delivery	: To be delivered at our stores (Free delivery). If import, mention	
	Ex-works/FCA/CIP terms with clear breakup charges.	
Warranty	: For a minimum period of one year from the date of supply and installation	
Taxes & Duties	: Indicate taxes and duties. We are exempted for customs duty under 51/96 notification and Excise duty under 10/97 notifications.	
Discount	: Indicate, if any.	
Delivery Schedule	: Required Immediately. Indicate your schedule	
Validity of quote	: 60 days OFFICE COPY	

Thanking You,

Yours Faithfully

Deputy Registrar (Purchase & Stores)

P.S: CATALOGUE/LEAFLET FEATURING ALL TECHNICAL SPECS/INFORMATION OF THE PRODUCT QUOTED SHALL ACCOMPANY THE OFFER.

Annexure - I to Enquiry No. USER | PUR | 5582 | 14

Drosophila Growth Chamber:

Growth Chambers for rearing and setting up experimental crosses of Drosophila stocks are needed in the laboratory of Dr. Jishy Varghese, School of Biology. The Growth chamber should maintain the set temperature, humidity and lighting conditions at all times. There should be safety mechanisms to ensure that if the internal conditions cross the set limits, the system would turn itself off and give out an alarm. The chamber should be well insulated and should prevent small insects from entering.

Technical Specifications:

Temperature range and safety controls:

 $4^{\circ}-40^{\circ}$ C (with an accuracy of $\pm 0.5^{\circ}$ C with lights on).

Adjustable high and low temperature controls, audible alarms, and displays should be present.

This control should safe guard the experiments as well as stocks from fluctuations beyond control levels by shutting down all power to the chamber and should also activate the alarms (when the temperature returns to the normal range the system should reset automatically).

Humidity controls:

Humidity should be controlled from 60 to 85% (with an accuracy of $\pm 2-3\%$) for set temperatures between 18° to 28°C

Refrigeration:

Should have a self-contained air-cooled condensing unit with a system for continuous compressor operation and precise temperature control (continuous running condensing unit should ensure precise temperature control by alternately cycling refrigerant and heating agent to the coils)

Refrigeration system should be top mounted that would allow easy access for cleaning

Rejected heat should be dissipated without having an impact on the interior conditions of the chamber cabinet

The coils should be phenolic coated which should prevent corrosion from any acidic environment

Display and Program storage:

Should have large and visible indicators and display that tells the user about the chamber conditions

Options for configuring various programs to run in real time or elapsed time

Ramping and non-ramping program methods should be available for each programming mode Should have a future upgrade option of monitoring and controlling of chamber via internet (alerts and current condition updates to multiple e-mail addresses)

Lighting:

A minimum of 4 fluorescent lamps vertically mounted on each side of shelf should be present. Light intensity and turning lamps on/off should be programmable and easily controlled.

Cabinet and Door:

Corrosion resistant interiors and exteriors (the material used should be clearly mentioned in the offer)

The inner shell of the cabinet should supported by non-compressing/non-thermal conducting material

There should be an inner liner in place preventing a direct contact to outer case

Wall thickness should be a minimum of 5cm

Insulation should be woodless, CFC free and sufficient to maintain the stated temperature range

Both interior and exterior should have eco friendly, powder coating which is highly resistant to humidity

The joints and seams should be joined by proper welding to minimise damages to the chamber

Proper floor drain and hose assembly should be there at the floor of the chamber

Should have caster assembly and adjustable levelling legs

Single door opening should provide an easy and full access to the interior

Door frames should seal tightly using magnetic gaskets to prevent fluctuations in set conditions and also to prevent small insects and dust from entering

An external lock should be provided to prevent unauthorized access to the stocks maintained

Shelves and interior spacing:

Should have an interior space of 800-900 litres, with minimal foot print

Should have 6 tiers of white epoxy coated steel wire shelving (each shelf should have a minimum dimension of 65 cm x 80 cm)

Shelves height should be adjustable and should allow an easy removal

Shelf height should be more than 20cm per tier with all six shelves installed during regular working conditions

Warranty

Warranty of three years should be provided (warranty conditions should be clearly mentioned)

Installation

Growth chambers will be initially installed in our transit campus. The company should give an undertaking that they would dismantle the growth chambers and reinstall in our Permanent campus at Vithura

Mention the minimum number of months needed to deliver the product. The growth chamber is needed urgently for research and we may take into account the speed of delivery when choosing the company.

List of End Users

Mention at least ten reputed National Institutes or Central Universities or R&D laboratories in India where you have supplied growth chambers that are being used currently. Provide contact details of concerned persons in these institutes. We may contact and/or visit these institutes to assess the quality of your product.

K. BHASKARA RAO Deputy Registrar [Purchase & Stores] IISER TVM

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IISER-TVM INSTRUCTION TO TENDERERS [IMPORTS]:

- 1. **PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
- 2. AGENT & AGENCY COMMISSION: In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. Incase Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
- **3.** <u>LEAFLET/CATALOGUE:</u> Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
- **4.** <u>MODE OF DESPATCH</u>: Tenderer shall indicate the mode of dispatch (*i.e.*, Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
- 5. <u>COUNTRY</u> OF ORGIN: Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
- **6.** <u>**INSURANCE:**</u> If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
- 7. <u>DELIVERY/SHIPMENT</u>: The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to incase of placing order on the Tenderer.
- 8. <u>MODE AND TERMS OF PAYMENT:</u> Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT or WIRE TRANSFER against shipping documents. **OURS BEING A GOVT OF INDIA EDUCATIONAL INSTITUTE WE ARE UNABLE TO MAKE ANY ADVANCE PAYMENT**
- **9.** <u>WARRANTY:</u> Period of warranty and conditions shall be clearly mentioned in the Tender.
- **10.<u>GENERAL</u>**: The Tenderer shall also be complied with the following:
 - a. Mention your Banker's name and address.
 - b. Show approximate net and gross weight and dimensions of packages/ cases.
 - c. Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
 - d. Details of any technical service, if required for erection assembly, commissioning and demonstration.
 - e. Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
 - f. The offer is valid for a minimum period of 90 days from the due date of opening of the tender.
 - g. Samples, if called for, will be sent free of all charges.
 - h. Late tenders and Delayed will not be considered.
 - i. Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
 - j. The authority of person signing the tender, if called for, shall be produced.
 - k. The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assessing any reason.

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DEPKY REGISTRAR [PURCHASE & STORES]