



National Center for Biological Sciences
Tata Institute of Fundamental Research

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ENQUIRY

Ref: NCB/IC17-103/162697

November 13, 2017

Dear Sirs,

Please let us have your Quotation for the following :

S.No.	Item Code	Item Description	Qty	UOM
1	FCQBE000165	Plant Growth Chamber (As per attached specification)	1.00	NO

Please also indicate specifically the following:

1. The bids / quotation addressed to "THE HEAD – PURCHASE" with Tender / Enquiry Ref No. and Item description should reach us before submission date and time. The bids/quotation are liable to be rejected, if not addressed to "THE HEAD – PURCHASE".

2. **EXIM CODE - 8 digit Customs Tariff Number – HSN (Harmonised System Nomenclature)**

3. Country of origin

4. Place of shipment

5. Name, address, telephone number and fax numbers of your bankers

6. Your account number and swift number with the bank (required for payment purposes if the order materialises on your firm)

7. **Please indicate freight and insurance charges separately.**

8. Please indicate the Warranty Period and Delivery Period

9. Kindly expedite sending your Quote/Proforma Invoice/Invoice by courier so as to reach us latest by 04/12/2017

Important Note:

10. Shipping by AIRFREIGHT ONLY – CARGO MODE

11. Port of Entry for Customs clearance is – BANGALORE

12. Please use International Freights which arrive directly into Bangalore. Ex. Lufthansa Airlines Cargo, Singapore Airlines Cargo

13. NO SHIPMENT SHOULD BE MADE THROUGH COURIER COMPANIES LIKE FEDEX, TNT, UPS, DHL ETC. SHIPMENTS SENT THROUGH FEDEX, TNT, UPS, DHL, ETC. WILL NOT BE ACCEPTED BY NCBS.

14. NCBS is exempted in paying customs duty (except advolerum duty of 5% + 2% cess and 1% Cus Sec & High Edu.CESS on CIF value)

PLEASE NOTE THAT PAYMENT WILL BE MADE THROUGH SIGHT DRAFT THROUGH BANK (CASH AGAINST DOCUMENTS). DOCUMENTS WILL BE RELEASED FROM THE BANK IMMEDIATELY ON RECEIPT OF THE INTIMATION. BANK CHARGES INSIDE INDIA SHALL BE TO NCBS ACCOUNT AND OUTSIDE INDIA SHALL BE TO YOUR ACCOUNT. ALSO DO NOT INCLUDE CHARGES TOWARDS CUSTOMS DUTY IN YOUR PRICES SINCE NCBS WILL BEAR THIS EXPENDITURE.

Yours faithfully
For and on behalf of
National Centre for Biological Sciences

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SHABEEN TAJ

Copy to: Prof. / Dr. / Mr. / Mrs. / Ms. / Shri / Smt. KARAN MALHOTRA (NCB-12P4114)
Your Indent Req. No.NST5840011 Dated:06/11/2017 refers.

PLANT GROWTH CHAMBER

Purpose – Suitable for growing plants like Arabidopsis, tobacco and other plants; Air-flow for growing plants in petri dishes and flasks

Control – Entirely digital control with remote computer access

External Dimensions – (W*D*H) cm – 80-85 cm* 80-85 cm * 195-200 cm

Cabinet Construction - Smooth galvanized white side walls; Interior floor constructed of stainless steel; Chamber floor equipped with floor drain and hose assembly; adjustable levelling legs to compensate for floor unevenness in the lab

Capacity: ~ 800 L (Interior work space 29.7 ft³)

Air circulation: Conditioned air circulates; air flow should be designed for insulation from heat generated by underlying light

Door – One or two doors opening cm providing full access to chamber interior (magnetic gasket provides a tight seal to door frame)

Tiers – Minimum of 3 Tiers Epoxy coated steel wire shelving; each shelf; shelves can slide in and out; vertical adjustable (~1/2" increments).

Plant Growing height - Maximum growing height is ~30 cm per tier

Lighting System - Each tier should have separate lighting system for uniform lighting with white fluorescent lamps and incandescent lights; programmable up to 250 $\mu\text{moles}/\text{m}^2/\text{s}$ of light; separate programming for fluorescent lighting and incandescent lighting.

Light increments: At least 6

Refrigeration - Self-contained air-cooled condensing unit; close temperature control; Ceiling mounted evaporator coil incorporates twin air circulation fans in aluminium housing

Defrost: Automatic essential

Temperature Range - 12°- 45°C ($\pm 0.7^\circ\text{C}$) lights on and 4°- 45°C ($\pm 0.5^\circ\text{C}$) lights off with accuracy of $\pm 2^\circ\text{C}$

Fluctuation - $\pm 0.3^\circ\text{C}$

Temperature control - Microcomputer, PID.

Humidity Control – Ultrasonic Humidifier with advanced RH Sensor; wide range humidity control (from ambient range to 90%) with accuracy of $\pm 2^{\circ}$ C

Safety Limit Controls - Audible alarms, and visual indicators provided for detecting changes from set programs including temperature and humidity.

Finish - Interior and exterior painted, high temperature baked white powder coating

Compressor: Hermetic type (Advanced type)

Program: Temperature and Humidity should be programmable in steps with option for multiple programs. Program memory is desirable.

Timer: clock and time function essential

Data: At least 2 weeks of data should be transmittable to PC/desktop

AMC: 1 year