



**DEPARTMENT OF ZOOLOGY
UNIVERSITY OF DELHI, DELHI-110007**

Ref: RKS/Z/DU/NFSM/14.9.2

18/09/2014

CALL FOR QUOTATION

Department of Zoology invites sealed tender offers from eligible manufacturers/authorized distributors/reseller for the supply of one **INSECT CULTURE CHAMBER FOR MASS REARING FACILITY** and one **ENVIRONMENTAL CHAMBER** under NFSM-Joint project (Min. of Agric.), entitled, "Investigation on the Present Pigeonpea Pest Complex and Their Management with Emphasis on Radiation Technology as An Integral Component in IPM", in the Laboratory of the Undersigned in the Department of Zoology, University of Delhi, Delhi-110007. The vendors intending to bid may download the same from University website and submit their bid/tender by Thursday, the 9th Oct., 2014 at 5 pm to:

DR. R. K. SETH

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TENDER SPECIFICATIONS:

Sealed tenders are invited containing two types of bid i.e. **Technical bid** and **Financial bid**. Technical bid should consist of all technical details including manufacture, model specifications, country of origin along with term and condition and delivery schedule. It should be in a sealed envelope with clear marking on the left hand side as "TECHNICAL BID" & "FINANCIAL BID"

Financial bid must contain item wise price separately for all items mentioned in technical quotation, terms and condition, mode of payment and delivery schedule. Financial bid may also include custom duty and clearance charges. It should be in a sealed envelope with clear marking on the left hand side as "FINANCIAL BID". Both of these sealed "TECHNICAL BID" and "FINANCIAL BID" must be put in bigger envelope, which should also be sealed and superscribed. Separate envelopes must be used for each item mentioning its name. Vendors should submit all the required documents on their letter head. No separate Performa will be provided to them. The amount of EMD @ 2% of the cost of the material may be sent in the form of Bank draft in favour of the Finance Officer, University of Delhi which will be returned only after having received the material (Chambers) in good condition, installed properly and its satisfactory working condition. Non-compliance of the above may result in rejection of the tender. The amount of EMD of the unsuccessful bidders will be released immediately after issuing the supply order to the successful bidder. However, the bidders registered under NSIC/DGS&D will be exempted to pay/submit Earnest Money Deposit. The relevant valid certificate for availing this exemption to be enclosed with the offer.

TERMS AND CONDITIONS FOR TENDER:

A) *The vendor should*

- (i) Have reputed background and should be established in business for at least five years.
- (ii) Have executed at least three projects in last five years.

B) *The vendor should submit:*

- (a) Three years income tax return
- (b) Complete user list with name, address and telephone number (indicating the firm's prior experience to handle such type of work)
- (c) Manufacturer authorization form.
- (d) Company profile for at least five years.
- (e) Certificate that company is not blacklisted by any government organization.
- (f) Details of support and service centers.
- (g) Warranty compliance statement.
- (h) Registration of R&D Centre by DSIR, Govt. of India: The Firm should be approved as SIRO by DSIR, Government of India, and having their own running R&D/Technology Development Centre for the similar activities under protected cultivation at different levels in India. The proof of the same to be appended with the proposal.

Desirable:

- (a) The firm should have permanent SSI-NSIC registration.
- (b) The firm should have the ISO Certifications
- (c) The firm should have acquired with minimum SE-1B CRISIL Rating.

DESCRIPTION OF REQUIRED ITEMS:

1. INSECT CULTURE CHAMBER FOR MASS REARING FACILITY in Animal House

(one unit)

- (i) **Size:** 143sq.ft (L-11' x W-13' x H-8')
- (ii) **Biotech Cooling Unit**, (Temp. Range: 22⁰C to 28⁰C ± 1⁰C) **Technical:** Cooling capacity 4500 Kcal/Hr (1.5 ton) (with 2 operating units to work alternately at a time).
- (iii) **Polycarbonate Sheet Wall In Insect Culture Chamber For Mass Rearing Facility of Size:** 11'x13' x 8' (L x W x H) with one (1) door
- (iv) **Turbo Humidifier Fogger for Room Size**
- (v) **R.O. Water Purifier:** ISI mark 15 ltr
- (vi) **Controller For Automation** (of all parameters) : It includes Light, Temperature & Humidity Control System
 - (a) **Photoperiodic Timer:** Photo synthetically Active Radiation Lamp with Photo simulators
 - (b) **Temperature control system:** Temp. Range 0.1 to 59.9°C. **Accuracy:** ±1°C. Resolution 0.1
 - (c) **Relative humidity control system analogue:** Technical Range 32% to 90% ±5%
 - (d) **Sequential timer:**
 - (e) **Electrical wiring:** ISI marked/any reputed make

2. **ENVIRONMENTAL CHAMBER**(Greenhouse) (**One unit**) with following dimensions: **Viz.**, Total Area of Environmental Chamber: 375sq.ft.; Dimension : Length 25ft., Width 15ft, Side Height 7ft. Centre Height 11ft., Design/Shape Dome/Arc; One (1) Buffer Room 5ft x 5ft x 8ft (L ×W×H) , Two (2) Doors 1.9m x 0.91m (tall & wide)

Specifications:

- (i) **Infra Structure complete:** Super structure module aluminum anodized covering strip infra structure mainly GI pipe
- (ii) **One Buffer (Ante) Room with two Doors:**
 - (a) Buffer room of size 5ft x 5ft x 8ft (L ×W×H)= 25Sq. ft. 1no.
 - (b) Door size: 1.9m × 0.91m long & wide .
- (iii) **Cladding:** 6mm thick clear multi wall GE Lexan polycarbonate sheet, aluminum profile, and accessories. Roof and Side Wall covers by 6mm, UV Stabilized.
- (iv) **Roof Screen/ Shading System :** Roof Screen 50% (shading) colour green manually rollable by gear mechanism.
- (v) **Ventilation System:** Window for ventilation system
- (vi) **Cooling System:** The temperature must lower by $10^{\circ}\text{C}\pm 2^{\circ}\text{C}$ from outside
 - (a) **Cooling Pad :** size: 5' H × : 15' W ×100mm thick evaporative CELDEC cooling pad complete with all **necessary framing material**
 - (b) **Construction Material :** including Aluminum Profiles, Plastic Profiles, Cooling Media, Filter, PVC Water storage Tank (1000 liters); Pump: 1 HP
 - (c) **Two(2) Slow Speed Axial Flow Fans** of 36" single speed belt driven exhaust fan 1 hp
- (vii) **Biotech room temperature control system**
- (ix) **Photoperiodic simulator digital base timer for light (display analogue)**
- (x) **Standard fluorescent tube light:** for general illumination in surroundings of Buffer Room .
- (xi) **Foundation wall for environmental chamber for all sides with flooring:**
- (ix) **Electrical fittings:** with ISI mark/any reputed make