



**NATIONAL AGRICULTURAL INNOVATION PROJECT**  
**Division of Entomology**  
**Indian Agricultural Research Institute**  
**Pusa Campus, New Delhi-110012**

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**INVITATION FOR QUOTATIONS FOR SUPPLY OF**  
**GOODS & EQUIPMENTS UNDER NATIONAL SHOPPING PROCEDURES**

**Sub : OPEN TENDER FOR INSECT PROOF CLIMATE CONTROL CHAMBER**

1. Most competitive quotations are invited for the following goods.

Brief Description of the Goods	Specifications*	Quantity	Delivery Period	Place of Delivery
<b>Insect proof climate control chamber</b>	Detailed Specifications listed in <b>Annexure 1</b>	01 (One)	45 Days	Division of Entomology IARI, Pusa New Delhi-12

*\* Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only.*

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US\$ 708,449 US Dollar towards the cost of the Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

**3. Bid Price**

- a) The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
- b) Prices for Goods supplied from within the country (including previous imported item) shall be quoted EXW (Ex-work, ex-warehouse, ex-showroom or off-the-shelf as applicable) including all duties and sale and other taxes already paid or payable on the raw materials and components.
- c) For goods offered from abroad (i.e., not previously imported) prices shall be CIF or CIP [which are exclusive of custom duty]
- d) Customs duty on the final goods and sale/similar taxes levied in connection with the sale of goods shall be shown separately.
- e) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- f) The Prices may be quoted in any currency of the Bank-member countries.

4. Each bidder shall submit only one quotation. Quotation shall be submitted in writing i.e., by fax, telex, letter of electronic messaging.

**5. Validity**

Quotation shall remain valid for a period not less than 30 days after the deadline date specified for submission.

## 6. Evaluation

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

(a) are properly signed ; and

(b) conform to the terms and conditions, and specifications.

The Quotation would be evaluated for all the item together / would be evaluated separately for each item (*Choose one option*). Quotations are compared after adding to the quoted price, the estimated cost of inland transportation and insurance if any to the final destination. For purposes of comparison, prices are converted into local currency at the exchange rates prevailing on the date of opening of Quotations.

Customs duty on the imported goods and sales/similar taxes levied in connection with the sale of goods shall not be taken into account in evaluation.

## 7. Award of contract

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

7.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

7.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

8. Payment shall be made immediately after delivery of the goods in the currency of the Quotation.

9. Normal commercial warranty/ guarantee shall be applicable to the supplied goods.

10. The offer to be provided latest by 1.00 pm on **6.1.2010**. The tenders will be opened at 3.00 PM on the same day.

11. The tender notice, schedule to tender and tender form are given in **Annexure 2**.

(Purchaser)

Name: **Dr. V.V. Ramamurthy**

Address: CCPI, NAIP Project (70-20)

Division of Entomology,

Indian Agricultural Research Institute, Pusa campus,

New Delhi-110012

Tel Fax No: 011-25842042

### FORMAT OF QUOTATION \*

Sl. No.	Description Goods	Specifications	Qty.	Unit	Quoted Unit Rate & Currency.	Total Amount	
						In Figures	In Words
	<b>TOTAL</b>						
	<b>Customs Duty, if any</b>						
	<b>Sales and Similar taxes, if any</b>						

**Gross Total Cost :.....**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of.....(amount in figures ) (.....amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee of.....months shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

**Signature of Supplier**

*\* Applicable while the bids are being invited for more than one item and would be evaluated for all the item together. Modify where evaluation would be made for each item separately.*

## **Insect proof climate control chamber for culturing different populations of whitefly (Whitefly Green House)**

This facility should be designed and constructed to facilitate maintaining different populations of cotton whitefly in different chambers in a green house ensuring perfect isolation between the individual chambers to avoid any movement of the whitefly from one chamber to the other either through airflow / partitions / planting material or personnel. It should provide optimum climatic conditions viz., temperature, humidity, light intensity and rate of air flow adjustable in individual chambers as needed and also provide perfect conditions for plant growth, flowering and fruiting of Cotton, Tomato and Soybean in pot culture. It should have a buffer room with two laboratory rooms on either side of the buffer and a control room for housing climate regulation installations. The entire facility should be enclosed in a fence enclosure to prevent trespassing. The constructions must on Build-Operate-and Transfer basis.

### **Specifications**

**1. Buffer room:** Dimensions 7 x 7 x 8 feet. To be provided with auto on-off air curtain, covered with polycarbonate cladding, and RCC roof on top. The entry should be through a polycarbonate door in aluminum frame fitted in a stone wall, swing in type and lockable. Wardrobe & shoe change area to be provided in the buffer room walls.

**2. Working Labs: Two labs L1 & L2 of 13 x 10 x 8 feet (L, B, H) each.**

To be provided with work benches having marble / granite top on two sides, SS Sink and racks and cup-boards. Also should have an annex on one side to house control panels for all installations and on the other side autoclave area and a store for handling potting mixtures and Toilet room with a shower, wash basin and WC. The lab rooms should have wide windows to allow natural light, protected by iron grill. The top should be of RCC, doors made of polycarbonate in Aluminum framing as above. One lab room should have a fume hood and an exhaust mounted on a bench of 4.5' x 3' to handle insecticides.

**3. Main Green House:** Should have 10 chambers of 5 on either side of a central corridor (10 ft. wide approx.) in continuation of buffer room. Each Chamber (C1 to C10) be of at least 10 x 12 feet OR 3mt x 4 mt inner work area. The height of the sides should be 2.5 feet over which the cladding is provided.

**Green house chambers C1-C10: Cladding Structure** to be supported on 72-75 mm G I pipe (of 3 mm thickness) fitted on a brick-wall support raised from ground to 2.5 feet height on all four sides. The cladding material be of "polycarbonate, 12 mm thick, multi-wall and be of GE make". All internal partitions of chambers and chamber doors shall use the same sheet. The internal partitions should be whitefly proof, with perfect leak proof, tamper proof silicon or other sealing between all joints. Chambers C1 to C10 should be of 3 mt x 4 mt (L x B), located 5 on each side of the corridor and provided with an entry door with whitefly proof sealing on all sides. Two of the chambers (C1 and C6 facing opposite) should consist of at least 6 circumscribed compartments to place potted plants to maintain and handle whitefly strains with least handling interventions.

**Climate control in the green house:** The parameters required in the entire green house are: Min. Temp. = 22 °C; Maximum Temperature = 35 °C & Relative Humidity= 85 + 5%.

These parameters should be adjustable in individual chambers differently as per the requirements of the research work. Separate air conditioners (split type) are required for climate control in the two laboratory rooms L1 & L2. Cooling should be provided by frost free cooling facility, pre-cooling required, Break down free Air-conditioning for the entire facility is essential.

### **Other specifications required in the facility:**

**Walls:** Growing area side wall height: 2.5 ft, made of bricks, Lab area side walls height 8 feet, made of bricks and roof with RCC. All walls are to be plastered and finished with distemper

**Benching:** Stainless steel benches of 2' ht, 2' wide, 5-6' length are to be provided in all the 10 chambers (C1 to C10).

**System to maintain temperature & Humidity to avoid air drought:** For maintaining relative humidity (RH) by mist blowers, water particle size should not be more than 5-6 $\mu$  & should not penetrate the plants. Air Conditioned H & I area. Overhead heating system with gear boards. Dry disinfection system with individual control in each chamber. Auto breathing system for each chamber. Controllable drip system for all pots kept inside the chamber

Authorized access system for the entire facility. Computer with logging feature to log temperature and humidity parameters at required interval.

**Electrical Wiring & Fittings:** Copper electrical wiring, able to take complete load of the facility. Switches and MCB of Scander make. All light fittings With PAR Radiation be made of Phillips.

**Water System:** 1000 litre Water storage tank. Water filtration system for complete facility. One water outlet with sink in each chamber (B, C, D, E). All pipes should be stainless steel, 304 grade non magnetic.

**Flooring:** Floor with glazed ceramic tiles.

**Accessories:** Stainless steel vessels for accommodating plants in compartments C1 and C6.

**Fencing:** The facility should be provided with a fence raised on a 3ft high wall at a distance of 2 mt length wise, 3.5 mt width wise and 4 mt side wise. The fence should be of metal grill in convenient frames.

**Bidding firms should provide all details with specifications make / brand of installations, cladding, fittings and provide detailed drawings. The bidders must enclose documentary evidence of experience in such green house constructions/ installations in established organizations, along with their full address and contacts.**

**The details of the cost to be provided with individual breakup enabling final selection, according to the limitation of funds available. Such breakup to be given item wise, unit wise and area wise with all possible combinations and options, at the same time maintaining the overall dimensions and the major framework. The samples of all the core items to be submitted at the time of opening of the tenders. The firm should provide three years full warranty from the date of operation/ installation; after this the terms of maintenance contract to be specified.**

NATIONAL AGRICULTURAL INNOVATION PROJECT  
DIVISION OF ENTOMOLOGY  
INDIAN AGRICULTURAL RESEARCH INSTITUTE  
NEW DELHI-110 012

No.ENT/NAIP 70-20

Dated the ..... 2009

**TENDER NOTICE**

1. Sealed tenders for the purchase of **Insect proof climate control chamber** are invited by **Consortium CoPI, National Agricultural Innovation Project (70-20), Division of Entomology Indian Agricultural Research Institute, New Delhi-110 012 on behalf of the Director, IARI, New Delhi 110012.**
2. Preparation of tender:
  - a) The tender documents comprising the tender form, the schedule and the Annexures referred to therein are provided herewith.
  - b) Any form of overwriting or use of more than one ink in the tender will disqualify the tender and such tenders are liable to be ignored. A tender is liable to be ignored if complete information as required therein is not filled in. Rates should be quoted in words also.
3. Delivery of tenders: All tenders should be addressed to the **Consortium CoPI, National Agricultural Innovation Project (70-20), Division of Entomology IARI, New Delhi-110 012** and should be deposited in the Tender Box kept in the Division of Entomology, IARI, New Delhi for the purchase of Tenders. Tenders can also be sent by Registered Post but this will be at the risk and responsibility of the tenderers themselves. However, such tenders as are sent by post, duly sealed superscribed and addressed as indicated above should be delivered to Assistant Administrative Officer, Division of Entomology, IARI, New Delhi. No plea whatsoever will be accepted with regard to postal delays or for wrong delivery of the tenders. The tenderers are, therefore, advised to ensure that tenders are deposited in the Tender Box or delivered to the aforesaid officer before the last date and hour specified for receipt of tenders.
4. Latest hour for receipt and opening tenders: As specified in the schedule to tender the tenders must reach this office not later than by **1.00 P.M. on 6<sup>th</sup> January 2010. The tenders will be opened at 3.00 P.M on the same day** in the presence of the tenderers who may choose to be present personally or through a representative duly authorized in writing on their behalf.

Late tenders i.e. tenders received after the specified hour will not be considered at all. If, however, the tenders received subsequently with attractive rates from reliable firms, the Director, IARI will have the discretion either to re-invite tenders or

negotiate with the lowest tenders. The decision of the Director, IARI shall be final and binding.

The tenders shall be submitted in two separate envelopes, one exclusively containing the technical specifications of the individual components and marked "TECHNICAL BID" outside and the second containing the prices of the major components and marked "FINANCIAL COMPONENTS BID" outside. The financial bid shall depict the prices of the major components, accessories etc., separately along with details of CIF, agency commission etc. For technical specifications, please see Annexure 1.

5. Period for which the offer will remain open/contract periods: As specified in the schedule of tender the tenders shall remain open for acceptance up to 6 months from the date of opening. The successful tenderer will have to complete the supply under this tender within a month for indigenous equipment and within 90 days from imported equipment from the date of issue of the acceptance letter and no further extension of time will be given on any account.
6. Only Manufacturers/authorized dealers/reputed firms duly registered and having latest Income-tax clearance certificate, valid registration with Sales Tax and Central Sales Tax (where applicable) are eligible for submitting the Tender. Tenderers having quoted for ISI/ISO certified equipment/service should have preference.
7. Earnest Money: Each tender must be accompanied by an earnest money of Rs. 200000/= (Rupees Two lakh only). The earnest money should be furnished in the form of Bank Draft/Pay Order drawn in favour of Director, Indian Agricultural Research Institute, New Delhi preferably with Syndicate Bank, IARI, Pusa Campus, New Delhi-12. Tender received without appropriate Earnest Money shall be rejected summarily. The EMD is compulsory to all and exemption is not allowed. The Demand Draft be enclosed in a separate envelope of size 9"x4" super scribed as Earnest Money Deposit of Rs. 200000/- for **Insect proof climate control chamber** without which the offer shall not be entertained.
8. The EMD will not carry any interest on it. The EMD will be refunded in full on receipt of request after the finalization of Tender. However, in case of tender accepted for purchase/supply order, the EMD refunded only after final execution of supply, installation and commissioning of the ordered item. The refund of EMD not claimed within three years from the last date of receipt of tender will stand forfeited. EMD stands forfeited if conditions at Clause-6 above not fulfilled.

Tender for each item submitted separately in sealed cover (wax sealed) of size 12"x10". It should mention Money Receipt No. Name and Serial No. of the item on top left corner of the envelope, without which the offer will not be entertained. Tender is to be submitted in person or by mail (Registered/Speed Post) only. Each offer accompanied with the original copy of the specification (in case of forms purchased from the office as also originally Web down loaded specification) without

which the offer will not be entertained.

9. Tender strictly in conformity to the specifications and the delivery of which is possible with the specified period need only be submitted. In case of accepted tender, the last date of supply mentioned as per the delivery period has to be adhered to, in letter and spirit, failing which penalty @ 5% (Five percent) of the value of item for delay of 15 days or fraction thereof imposed and be deducted from the bill or the earnest money and the purchase order shall automatically stand cancelled.
10. Specifically mention concession/discount and facilities such as the period of warranty/guarantee, free servicing, installation etc. in the Tender itself. It should be supported with leaflet, brochure etc. for all the components.
11. It is desirable to have items of indigenous make. In case indigenous item of the desired specification is not available, item of foreign-origin quoted along with Original Proforma Invoice.
12. In case of proprietary item a valid certificate of proprietary manufacturing/item be enclosed with the tender/offer.
13. Supply made by Goods Train or by Road Transport is at the discretion, risk and cost of the supplier. Mode of transport should be specified in the tender-offer. Transit loss/damage, if any will be born by the supplier.
14. In case of equipment a Guarantee-Certificate for a minimum period of One Year from the date of installation thereby providing for replacement of parts and/or repair/service at the cost of the supplier may be furnished.
15. The payment will be made through Cheque and terms and conditions of payment will be applicable. Payment will be processed only as per these terms and conditions. Part supply will not be accepted.
16. The repair/service facilities and availability of spares for the stores / equipment after supply shall have to be mentioned in the Tender.
17. The list and addresses of Laboratories/Universities to whom the stores have been supplied by the firm may also be furnished.
18. If the supply rejected, the stores/equipments should be transported taken back by the supplier at his cost and risk within 10 days from the date of rejection. In case of failure to remove the rejected material, ground rent chargeable at the rate of half percent of the cost of the material per week will be applicable.



19. All the rates quoted for articles/equipments must be for F.O.R. IARI. In case of import, it will be on FOB basis and custom clearance shall be done through our custom-clearing agent.

20. Prices and delivery terms: As given in the schedule of tender the prices quoted must be net per unit inclusive of all charges. All taxes will be paid in full, as no C/D form will be issued by this office. The prevailing rates of all taxes, to be charged extra, should be shown clearly, without which the tender is liable to be ignored. The destination for the consignment will be the Division of Entomology, IARI, New Delhi-110012.

While quoting for imported equipment:

a) Rates quoted should be FOB with a validity of 180 days

b) The price quoted shall be inclusive of charges for inspection by the reputed International Agency and a test certificate to this effect is required.

c) The Agency Commission to the Indian Agency must be shown separately. The address of the Indian Agent should be given.

Payment will be made to the suppliers directly on completion of supplies and on correct receipt of stores. Documents/Vouchers/RRs/Bills etc. routed through bank will not be accepted. The risk on transport will have to be borne by the tenderers. Installation/commissioning charges, if any, should be quoted separately. Warranty period of minimum 12 months should be given.

The delivery of the scientific equipment will be accepted by the Indenter after proper inspection and verification of their quality and working.

21. ITC/Trade Registration Certificates: Every tender must be accompanied by Photostat copy of the latest Income Tax/RC clearance certificate, without which the tender will be liable to be ignored.

22. Sales Tax Registration Certificate: Every tender must be accompanied by a certificate as under:

i) Photostat copy, duly attested of the Sales Tax declaration to the effect that the firm is registered under the sales tax department.

ii) 3 GA(6) or 3GA(2) form, as the case should be attached along with each bill of supply, otherwise the purchase taxes may be applicable will be deducted from each bill of supply.

23. Purchase order/supply order related to this Tender Notice shall subject to any or all conditions stipulated above whether or not mentioned in the purchase/supply order.

**24. IMPORTANT** : In case you are submitting your Tender Offer on the Web Downloaded Tender Form, your offer must necessarily contain a Crossed Demand Draft for Rs.200/= (Rupees Two Hundred only) favouring Director, IARI payable at New Delhi.(Submit separate Tender Offer for separate Equipment) in a Separate Envelope of size 9"x4" superscribing thereon "Tender Registration Fee for Rs.200/- (Rupees Two hundred only) only for offer for (Name of the Equipment/item /serial

No.\_\_\_\_\_) of Tender date\_\_\_\_\_ and separately attached with the offer Bid offer. On Web Downloaded Tender Forms not accompanied with Tender Registration Fee as enumerated here will not be entertained. The Tender offer envelope also be superscribed as “Web Downloaded Tender Form Used”.

25. The Director, Indian Agricultural Research Institute reserves the right to accept or to cancel/reject any or all item(s) of the Tender at any stage without assigning any reason. Decision of the Director, IARI on any dispute related to this Tender shall be final and binding.
26. The Tenders for any item(s) will not be opened if the total number of Tender Bids received by the Institute is less than three.
27. Tenders received after the stipulated date and time will not be considered and that not in conformity with the Terms and Conditions as above are liable to be rejected. The Institute shall not be responsible for any postal delay whatsoever.

Assistant Administrative Officer

Encl: Schedule & Tender Form

NATIONAL AGRICULTURAL INNOVATION PROJECT (70-20)  
DIVISION OF ENTOMOLOGY  
INDIAN AGRICULTURAL RESEARCH INSTITUTE  
NEW DELHI-12

Schedule to Tender No. ENT/ST/ /.....

Tender due to be returned by 13.00 hr on 6<sup>th</sup> January 2010

Time & Date of opening of tender 15.00 hr. on 6<sup>th</sup> January 2010

The tender shall remain open for acceptance till 31.3.2010

Specification of equipments.

a. Specification for equipments: **Insect proof climate control chamber (Annexure-1)**

1. Purchaser is National Agricultural Innovation Project (70-20), Division of Entomology, IARI, New Delhi.
2. Earnest Money Rs.2,00,000/-
3. Earnest Money is not acceptable in cash, only bank draft in favour of Director, IARI, New Delhi is required.
4. Materials will have to be got approved before the supply is taken into account
5. The equipment, if summoned for demonstration, will have to be taken back and no freight/transportation will be paid for it.
6. Part supply will not be undertaken/accepted.
7. Minimum warranty/guarantee period should not be less than 24 months.
8. During the warranty/guarantee period, no cartage/freight etc. will be paid in case of replacement of defective equipment.
9. Rates should be inclusive of all charges except Sales Tax, chargeable at the prevailing rate of Sales Tax, should also be indicated below the rates of each item in the tender.
10. If the tender does not indicate clear rates of Sales Tax, no claim of Sales Tax will be entertained in case of acceptance of the rates quoted for in the tender.

Signature of the Tenderer

Dated\_\_\_\_\_.

Address\_\_\_\_\_

NATIONAL AGRICULTURAL INNOVATION PROJECT  
DIVISION OF ENTOMOLOGY  
INDIAN AGRICULTURAL RESEARCH INSTITUTE  
NEW DELHI-12

Tender Form

Tender No.ENT/ST/ /.....

From \_\_\_\_\_,  
\_\_\_\_\_  
\_\_\_\_\_.

To

The CCoPI  
National Agricultural Innovation Project  
Division of Entomology,  
IARI, New Delhi-12.

Dear Sir,

1. I/We offer to supply the stores detailed in the schedule hereto or such portion thereof as you may specify in the acceptance of tender at the price given in the said schedule and agree to hold this letter open till the specified date. I/We shall be bound by a communication of acceptance dispatched within the aforesaid date.
2. I/We have understood the instructions and conditions of contract pertaining to the above mentioned tender and have thoroughly examined the specifications/drawing and/or pattern quoted in the schedule thereto and am/are fully aware of the nature of the stores required and my/our offer as to supply strictly in accordance with the requirements.
3. The following page have been added to and form part of the tender

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A demand draft/pay order for Rs. 2,00,000 (Rupees Two Lakh only)  
Drawn in favour of Director, IARI, New Delhi-12 on the Syndicate Bank, Pusa, IARI,  
New Delhi is enclosed towards the earnest money required.

4. I/We also agree to execute the contract bond agreement as referred to in para 6 of the tender notice.

Yours faithfully

(Signature of tenderer with date)

Signature of Witness\_\_\_\_\_

Address\_\_\_\_\_