

## भाकृअनुप- प्याज एवं लहसुन अनुसंधान निदेशालय

राजगुरुनगर, पुणे- 410505(महाराष्ट्र)

### ICAR - Directorate of Onion and Garlic Research

Rajgurunagar, Pune-410505 (Maharashtra)

Phone No.(02135) 222026, Fax: (02135) 224056, Email: director@dogr.res.in

### प्याज एवम लहसुन अनुसन्धान निदेशालय राजगुरुनगर, पुणे के लिए उपकरण खरीदी हेतु निविदा फॉर्म- महत्वपूर्ण बातें:-

1. निविदा दस्तावेज फार्म का मूल्य रुपए 500/- (पांच सौ) मात्र है।
2. प्रत्येक उपकरण हेतु आवश्यक ई.एम.डी. राशि का विवरण अंदर दिया गया है।
3. निविदा दस्तावेज फार्म की बिक्री दिनांक 03/08/2015 से शुरू है, समय सभी कार्य दिवस में - 10.00 से 16.00 बजे तक है।
4. निविदा दस्तावेज फार्म की बिक्री की अंतिम तिथि दिनांक 31/08/2015 है, समय - शाम 16.00 तक है।
5. मुहरबंद निविदा दस्तावेज जमा करने की अंतिम तिथि दिनांक 02/09/2015 है, समय - 13.00 बजे तक है।
6. निविदा दस्तावेज खोलने की अनुसूचित तिथि दिनांक 02/09/2015 और समय 14.00 बजे है।
7. निविदा दस्तावेज खोलने का स्थान प्याज एवम लहसुन अनुसन्धान निदेशालय राजगुरुनगर, पुणे का सम्मेलन कक्ष है।

### Tender for purchase of Equipments for Directorate of Onion and Garlic Research, Rajgurunagar.

#### Important Points:-

1. Cost of Tender Document Form is Rs.500/-(Five Hundred) only.
2. Required EMD amount for each equipment is mentioned in tender form.
3. Sale of Tender document form start from 03/08/2015, from 1000 hrs to 1600 hrs on all working days.
4. Last date of sale of Tender form is 31/08/2015 upto 1600hrs.
5. Last date for acceptance of sealed Tender document is 02/09/2015 upto 1300 hrs at this Directorate.
6. Scheduled Date and time for opening of Tender is 02/09/2015 at 1400 hrs onwards.
7. Place for opening of Bids is Conference Room of DOGR Rajgurunagar, Pune.

#### पत्राचार हेतु पता / Address for communication:-

निदेशक / The Director

भाकृअनुप - प्याज एवम लहसुन अनुसन्धान निदेशालय / ICAR - Directorate of Onion and Garlic Research

राजगुरुनगर, पुणे, महाराष्ट्र - 410505 / Rajgurunagar, Pune, Maharashtra- 410 505

दूरभाष / Phone No. (02135) 222026, फैक्स / Fax: (02135) 224056,

ई मेल / Email: [director.dogr@icar.gov.in](mailto:director.dogr@icar.gov.in) & [director@dogr.res.in](mailto:director@dogr.res.in)

वेबसाईट / Website - <http://www.dogr.res.in>



# भाकृअनुप- प्याज एवं लहसुन अनुसंधान निदेशालय

राजगुरुनगर, पुणे- 410505(महाराष्ट्र)

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फाईल संख्या:- 15-328/S&P/TN/15-16/

दिनांक:- 26/07/2015

## निविदा नोटिस

सचिव, भारतीय कृषि अनुसंधान परिषद की ओर से निदेशक, प्याज और लहसुन अनुसंधान निदेशालय, राजगुरुनगर, पुणे (महाराष्ट्र) द्वारा वैज्ञानिक उपकरण, फर्नीचर एवं इलैक्ट्रॉनिक/इलैक्ट्रिकल सामान की खरीदी हेतु अधिकृत / पंजीकृत और प्रतिष्ठित निर्माताओं/ कंपनियों और विदेश में और / या उनके भारतीय एजेंटों से मुहरबंद निविदाएं आमंत्रित की जाती हैं।

विनिर्देशों के साथ निविदा दस्तावेज प्रपत्र डी.ओ.जी.आर.की वेबसाईट ([www.dogr.res.in](http://www.dogr.res.in)) पर उपलब्ध है और डाउनलोडिड फॉर्म प्रत्येक मामले के लिए 500/- (पांच सौ) रूपये की एक गैर वापसी निविदा शुल्क के साथ प्रस्तुत किया जाना चाहिए। डाउनलोड किया हुआ निविदा दस्तावेज बैंक डिमांड ड्राफ्ट के बिना स्वीकार नहीं किया जाएगा और खारिज कर दिया जायेगा। निविदा दस्तावेज का एक पूरा सेट प्रत्येक मामले के लिए अलग 500/- (पांच सौ) रूपये के नगद भुगतान अथवा "आई.सी.ए.आर. यूनिट डी.ओ.जी.आर." के पक्ष में एसबीआई राजगुरुनगर शाखा पर देय बैंक डिमांड ड्राफ्ट के साथ निदेशालय में दिनांक 03/08/2015 से 31/08/2015 तक किसी भी कार्य दिवस पर 10.00 से 16.00 बजे तक खरीदा जा सकता है। विधिवत भरे हुए निविदा प्रपत्र (अलग-अलग उपकरण के लिए अलग-अलग) ई.एम.डी. राशि के साथ कार्यालय में 02/09/2015 तक 1300 बजे या पहले तक पहुंच जाना चाहिए। टेंडर उसी दिन 1400 बजे खोले जायेंगे। अधिक जानकारी के लिए <http://www.dogr.res.in> पर लॉग ऑन करें।

सही/-  
प्रशासनिक अधिकारी

## TENDER NOTICE

On behalf of the Secretary, ICAR, the Director, Directorate of Onion and Garlic Research, Rajgurunagar, Pune (Maharashtra) 410505 invites sealed tenders for purchase of lab equipments, furniture and electronic/electrical items from authorized/registered and reputed manufacturers/firms from India and abroad and/or their Indian agents.

The complete tender document is available at DOGR's Website ([www.dogr.res.in](http://www.dogr.res.in)) and downloaded form may be submitted along with a non-refundable tender fees of Rs. 500/- (Five hundred) only for each case separately. Downloaded forms will not be accepted without Bank Demand Draft, and treated as rejected. Tender documents can also be purchased on any working day at this Directorate from 03/08/2015 to 31/08/2015 between 10.00 to 16.00 hrs, upon a cash payment of Rs.500 (Five hundred) only or Bank DD favoring "ICAR Unit DOGR" payable at SBI, Rajgurunagar. Duly filled tender form (Separate for each equipment) along with EMD amount (Separately) must be delivered or submitted to this office upto 02/09/2015 on or before 1300 hrs. The tender will be opened on same day at 1400 hrs. For detail please log on at <http://www.dogr.res.in>.

Sd/-  
Administrative Officer

List of equipments along with EMD detail

क्र. सं. S. No.	उपकरण/वस्तु का नाम Name of the Equipment/Item	आवश्यक संख्या Qty required	बयाना जमा राशि (ई.एम.डी.) रूपये में “आईसीएआर यूनिट डीओजीआर” के नाम पर EMD Amount in Rs. favouring “ICAR Unit DOGR”
1	Automated Rainout Shelter facility	1	250000
2	Refrigerator	1	2500
3	UV-Visible Spectrophotometer	1	6000
4	LCD Projector	1	7500
5	Air Conditioner	2	4000
6	Water Bath	1	1000
7	Food Grade Drier	1	4000
8	Super Critical Fluid Extractor	1	100000
9	Vapour Pressure Osmometer	1	40000
10	Dewpoint Potentiometer	1	40000
11	Gradient Thermal Cyclor (PCR Machine)	1	25000
12	Dissecting Trinocular Microscope with Camera	1	7500
13	Vertical Electrophoresis system	1	7500
14	Compact Centrifuge	1	2400
15	Incubator-Cum-Orbital Shaker	1	3000
16	Humidifier	1	2000
17	Mini Tractor	2	45000
18	UPS- 10 KVA	5	25000
19	CCTV Camera (complete System)	1	25000
20	Furniture & fixture	As per detail	35000

### Term & Condition and schedule of Tender Process

- 1) The tender document form along with specifications is available at DOGR's Website ([www.dogr.res.in](http://www.dogr.res.in)) and must be submitted along with a nonrefundable tender fees of Rs. 500/- (Five hundred) only for each case separately. Downloaded forms will not be accepted without Bank Demand Draft and treated as rejected.
- 2) A complete set of bidding documents can also be purchased by the bidders on any working day at this Directorate from 03/08/2015 to 31/08/2015 between 10.00 to 16.00 hrs., upon a payment of Rs.500 (Five hundred) only in the form of cash or Demand Draft drawn in favour of **"ICAR Unit DOGR"** payable at SBI, Rajgurunagar branch.
- 3) Interested firms should submit Technical and Financial Bids separately in different sealed covers superscribed "Technical bid" and "Financial bid". Technical bid consists of all technical specifications of the equipment along with EMD, necessary documents, terms & conditions, while Financial bid indicate price of equipment/item as mentioned above. Further both sealed covers should be kept in a separate sealed cover superscribed as Tender for: - "Equipment Name", tender no..... dated..... The financial bid will be opened only for technically qualified bidders.

4) Tender schedule:

Start of sale of tender form at DOGR	Last date for issuing of tender form	Last date for submission of tender form at DOGR	Date & time for opening of technical bids at DOGR
03/08/2015 1000 to 1600 hrs	31/08/2015 upto 1600 hrs	02/09/2015 upto 1300 hrs	02/09/2015 at 1400 hrs

- 5) Duly filled tender form (Separate for each equipment) along with EMD amount (Separately) must be delivered to the office upto 02/09/2015 on or before 1300 hrs. Late bids will be rejected.
- 6) The defaulting contractors/agencies, whose services were terminated/ discontinued either by this Institute or any other Institute of ICAR on account of various lapses, need not apply please and those who have been black listed by any Govt. Department also need not apply. A declaration to this affect should be submitted with the technical bid.
- 7) In the event of the above date being declared as a holiday/closed day or any unavoidable circumstances for the bidder, the bids will be sold /received/opened on the next working day at the appointed time.
- 8) Director, DOGR, reserves the right to accept/reject any or all the tenders without assigning any reason.
- 9) For detail and updated information please log on at <http://www.dogr.res.in>.

Format of Written application for Tender documents

Tender form fee: Rs 500/-

Date \_\_\_\_\_

TO

The Director

ICAR- Directorate of Onion and Garlic Research,

Rajgurunagar, Pune – 410 505, Maharashtra

Sub: Tender Notice for \_\_\_\_\_

Ref : Your Advt. in \_\_\_\_\_ dt. \_\_\_\_\_

Sir,

With reference to above, I am to collect the said Tender document on behalf of M/s. \_\_\_\_\_  
\_\_\_\_\_ by submitting Rs. \_\_\_\_\_ /- vide D.D. No. \_\_\_\_\_ dt. \_\_\_\_\_ towards Tender  
fee for \_\_\_\_\_.

The receipt of the same may kindly be acknowledged.

Yours faithfully,

(Firm's Name/Representative)

Encl: as above

**N.B.: Tender should be submitted in two bid system in the manner prescribed in the NIT.**

**Name of the equipment:** \_\_\_\_\_

**Item No. :** \_\_\_\_\_

**TENDER FORM HAS TO BE PURCHASED AND SUBMITTED SEPERATELY IN SEALED ENVELOPES.**

To,

M/s. ....

**Sub: Supply of Tender Form – reg.**

Dear Sir,

With reference to your application dated \_\_\_\_\_, please find enclosed herewith tender form along with the detailed specifications receipt \_\_\_\_\_ Dated \_\_\_\_\_ for Rs \_\_\_\_\_ for the supply of equipment.

Kindly acknowledge the receipt of the same.

Yours faithfully,  
Administrative Officer

**INVATATION TO TENDER AND INSTURCTION TO TENDERERS**

**NOTE:** - All communication must be addressed to Director, Directorate of Onion and Garlic Research, Rajgurunagar – 410 505 by designation only.

From :

The Director,

ICAR- Directorate of Onion and Garlic Research,

Rajgurunagar- 410 505

Dist : Pune (MS)

To:-

Dear Sir/Madam,

On behalf of the President of Indian Council of Agricultural Research, New Delhi invites tenders for the purchase of equipments as per Annexure –I , where in the name of the equipment and specifications are mentioned. The condition of contract which will govern any contract made, are those contained in the general conditions of contract, applicable to the contractor placed by the Directorate of Onion and Garlic Research, and the special conditions detailed in the tender form (and those attached in accordance with the requirement stated in the attached schedule) please submit your quotations to this office.

Administrative Officer

**1) EARNEST MONEY:**

Earnest Money should be deposited through Demand Draft drawn on **State Bank of India, Rajgurunagar** in favour of **'ICAR Unit- DOGR, Rajgurunagar'**. Amount of Earnest Money to be deposited as under:

क्र. सं. S. No.	उपकरण/वस्तु का नाम Name of the Equipment/Item	आवश्यक संख्या Qty required	बयाना जमा राशि (ई.एम.डी.) रूपये में “आईसीएआर यूनिट डीओजीआर” के नाम पर EMD Amount in Rs. Favouring “ <i>ICAR Unit DOGR</i> ”
1	Automated Rainout Shelter facility	1	250000
2	Refrigerator	1	2500
3	UV-Visible Spectrophotometer	1	6000
4	LCD Projector	1	7500
5	Air Conditioner	2	4000
6	Water Bath	1	1000
7	Food Grade Drier	1	4000
8	Super Critical Fluid Extractor	1	100000
9	Vapour Pressure Osmometer	1	40000
10	Dewpoint Potentiometer	1	40000
11	Gradient Thermal Cycler (PCR Machine)	1	25000
12	Dissecting Trinocular Microscope with Camera	1	7500
13	Vertical Electrophoresis system	1	7500
14	Compact Centrifuge	1	2400
15	Incubator-Cum-Orbital Shaker	1	3000
16	Humidifier	1	2000
17	Mini Tractor	2	45000
18	UPS- 10 KVA	5	25000
19	CCTV Camera (complete System)	1	25000
20	Furniture & fixture	As per detail	35000

NOTE: -

1. In no circumstances, government promissory notes, S. B. Pass Book or cheque received with tender as earnest money will be accepted.
2. The tender will not be considered if the D.D. of earnest money is not attached with tender form. No request for transfer of any previous deposit of earnest money will be entertained. EMD exempted to those registered with Central Purchase Organization, National Small Industries Corporation (NSIC) or the concerned Ministry or Department.
3. It is understood that the tender document has been issued to the tenderer and the tenderer is being permitted to tender in consideration of the stipulation on his part that after submitting his tender he will not deviate from his offer or modify the terms and conditions thereof. Should the tenderer fail to observe and comply with the foregoing stipulation the aforesaid amount of EMD will be forfeited. In the event of the offer made by the tenderers not being accepted, the amount of earnest money deposited by the tenderer shall be refunded.
4. The earnest money should not on any account fall short of the amount actually required.

SIGNATURE WITH STAMP OF THE BIDDERS ON EACH PAGE



**2) PERFORMANCE SECURITY:**

Performance Security @ 10 % should deposit by successful bidder irrespective of its registration status etc The Performance security remain valid for a period of sixty days beyond the date of completion of all contractual obligation of the suppliers including warranty obligations.

**3) PREPARATION OF TENDER:**

- a) The Schedule to the tender form should be returned intact whether you are quoting for any item or not. Pages should not be detached but when items are not being tendered for, the corresponding space should be defaced by some such words as `Not Quoting`.
- b) In the event of space on the schedule form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively bearing the Tender No. and fully signed by you. In such cases reference to the additional pages must be made in the tender form.
- c) If any modification of the schedule is considered, you should communicate the same by means of a separate letter sent with the tender.

**4) SIGNING THE TENDER:**

- a) The tender is liable to be ignored if complete information is not given therein or if the particulars and data (if any) asked for in the schedule to the tender are not fully filled in. Specific attention must be paid to delivery dates and also to the General conditions of the contract as the contract would be governed by them.
- b) Individually signing the tender or other documents connected with a contract must specify whether he signs as:
  - i) A sole proprietor of the firm or constituted attorney of such sole proprietor.
  - ii) A Partner of firm if it be a partnership, firm in which case he must have authority to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney,
  - iii) Constituted attorney of the firm if it is a company.

N.B.

- a) In the case of partnership agreement or general power of attorney, in either case attested by a Notary Public, should be furnished unless the same has been previously furnished to Directorate of Onion and Garlic Research or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of the attorney should be furnished.
- b) In the case of partnership firms, where no authority to refer dispute concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.
- c) A person signing the Tender form or any documents forming part of the contract on behalf of another shall be deemed to warranty that he has authority to bind such other and if, on enquiry it appears that the person so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies cancel the sale contract and hold the signatory liable for all costs and damages.
- d) Each page of the tender, schedule to tender and annexure, schedule to tender and annexure, if any should be signed by the tenderer.

**5) DOCUMENTATION:**

The following document's copies must be invariably enclosed with the duly filled in the tender as per the terms and conditions of the technical bid/tender document:

- a) Service tax/Sales tax Registration certification issued by authorized Govt. Dept.
- b) Permanent Account Number (PAN) issued by authorized Govt. Dept.

- c) Name and addresses of their Banker along with complete Bank detail of the firm is required to be submitted by the firm for making any payment through E- transfer mode.
- d) Last five years continuous experience of the firm in the field of providing such services in of India/reputed public or private organizations. Details to be provided in tabular form in the enclosed proforma.
- e) Balance sheet of last year certified by the Chartered Accountant.
- f) The equipment they possess for the manufacture of stores and for quality control.
- g) Original Equipment Manufacturer (O.E.M.) Certificate for concerned equipment must be provided and attached with the tender document.

**6) DELIVERY OF TENDER:**

The original copy of the tender is to be enclosed in a double cover. The inner cover should be sealed. **The outer cover should be superscribed in bold letters "Tender for the supply of ....."** Right is reserved to ignore any tender who fails to comply with the above instructions. All outstation tenders should be sent by registered post only. Only one tender should be included in one cover. Where more than one tender is included in a cover, all tenders so enclosed in one over will be liable to be ignored.

**7) LATEST HOUR FOR RECEIPT OF TENDER:**

Unless and otherwise specified in the schedule to Tender, your tender must reach to this office not later than **13.00 p.m.** on the date of opening of the tender. Tenders sent by hand delivery should be put in the Tender Box at this office not later than **13.00 p.m** on the due date i.e. **02/09/2015**.

**8) PERIOD FOR WHICH THE OFFER WILL REMAIN OPEN VALID:**

The firms tendering should note that their offer should remain open for acceptance for 90 days from the date of opening of tender. If the firms are unable to keep their offer open for the specified period, their tenders are likely to be rejected. Qualified tenders by such vague and indefinite expression such as "SUBJECT TO IMMEDIATE ACCEPTANCE, 'SUBJECT TO PRIOR SALE' WILL NOT BE CONSIDERED.

**9) TERMS OF DELIVERY:**

The delivery of equipment's is required to be completed within 30 days from date of issue of supply order to the store of this centre. If, however, it is not possible effect delivery during the stipulated period you should specify the date by which you can guarantee for delivery and insulation in a prescribed schedule.

**10) PACKING:**

Unless a method of packing is indicated in the specification or on the schedule to the tender form, the method of packing, which the contractor proposes to adopt, must be described in the schedule to tender form.

**11) RIGHT OF ACCEPTANCE:**

This office does not pledge itself to accept the lowest or any tender and reserves the right of acceptance the whole or any part of tender or portion of the quantity offered. You are at liberty to tender for the whole or any portion or to state in the tender that the rate quoted shall apply only if the entire quantity is taken from you: Acceptance of tender will be communicated within a reasonable time after completion of all official formalities.

12) If an agent in its tender submits quotations on behalf of more than one manufacturer, it is necessary that each such tender is accompanied by a ***separate tender form and tender security/EMD for each such quotation*** and authorization from the respective Manufacturer.

**13) PRICING:**

(i) The prices quoted MUST BE PER UNIT SHOWN in the schedule and must specify separately all packing and delivery charges. Refunds on account of returnable packages (if any) are to be separately specified. Prices and refund must be clearly shown in figures and words in Indian currency or in foreign currency, if it is imported equipment. Please quote the Indian commission agents if the equipment is imported, which will be paid in Indian Rupees after installation of the equipment. All bank charges outside India will be borne by the tenderer. L.C. amendment charges will be borne by the tenderer.

(ii) The price must be stated for each item separately. The percentage of reduction, in the total price for the entire demand should also be quoted, and order to that extent be placed with you.

a. If it is decided to ask excise duty, Octroi, sales tax or any other charges as extra, the same must be specifically stated in the absence of any such stipulation it will be presumed that the prices include all such charges and no claim for the same will be entertained.

b. The price quoted by the tenderer should exclusive of sales tax (and should be clearly stated to be so), which will be paid by the purchaser, if legally livable at the rate ruling on the date of supply as specified in the Acceptance of Tender.

**Please note DOGR is eligible for payment of custom only at concessional rates and fully exempted from payment of Central Excise Duty as per Govt. Notification No. 51/96-Customs dated 23 July 1996 and No. 10/97-Central Excise dated 01 March 1997 as amended from time to time respectively.**

**14) CUSTOMS DUTY:**

(i) For imported stores offered against forward delivery, the tenders shall quote price thereto exclusive of custom duty. **The quotation shall specify separately the F.O.B. Price, C.I.F. Price & the custom Duty payable.** They will also indicate correctly the rate of customs duty applicable along with Indian Customers Tariff number.

(ii) In cases where all the tenders have quoted only for imported stores against forward delivery the tenders will be on prices exclusive of customer's duty. In such cases, the amount of Customs duty as legally livable calculated with reference to the tariff value of the stores declared by the tenders in their tender, but not exceeding the actually paid, will be reimbursed to the successful tender.

(iii) Customs Duty actually paid, not exceeding the amount legally livable, will be provisionally reimbursed to the successful tender to the extent of 90% on production of relevant document (bill of entry etc.) along with advance payment of 90% that may be stipulated in contract provided that the said imported stores are delivered in full or before the date quoted in the contract and accepted by the 'DOGR, Rajgurunagar, Pune ' in case of delay in the delivery thereof, only 90% of the Customs duty as defined above will be subject to final adjustment on satisfactory completion of the supply stipulated in the contract, If is a specific condition of this Tender Inquiry that any increase in customs duty payable or paid by the successful tender due to the delivery of the said imported stores or part thereof alter the date of delivery stipulated in the contract shall not be reimbursed.

(iv) If the purchaser is of the opinion that the Custom Duty has been wrongly assessed either because of wrong classification or any reason whatsoever, the supplier shall be bound at the request of the purchaser to pursue all legal reediest to challenge that assessment at the suppliers cost. If, as a result of such proceedings a refund is obtained, it shall be deposited forthwith by the supplier with the Director, DOGR, Rajgurunagar, Pune, India.

**15) TRANSIT INSURANCE:**

The purchaser will pay separately for transit insurance, in case of imported equipments only. The supplier will ensure that the entire stores contracted for arrive in good condition at destination. The consignee will, as soon as possible, but not later than 30 days of the date of arrival of stores at destination, notify the supplier of any loss or damage to the stores that may have incurred during transit,

**16) PAYMENT:**

- a) Indian Purchase: 100% Payment will be made after completion of supply & successful completion of installation & demonstration as per our requirement, specification. In no case advance payment will be made.
- b) Abroad Purchase: i) 90% of the contract price shall be paid through irrevocable letter of credit/ Sight Draft/ T.T. / in favour of the supplier through the suppliers bank A/c. no. established in abroad payable on production of shipping document within 21 days of shipment and Balance 10% payment will be made after submission of copy of successful completion of installation and demonstration through our bank to your bank.

**17) TAXES AND OTHER:** All Govt. dues (i.e. Taxes, Octroi, etc.) will be paid at actual.

**18) TERMS AND CONTIONS FOR DELIVERY:**

The material should bear very clear indicating FOB/FAB/FAC/CIF/FOR, port of export incase imported equipment's, details of opening Letter of Credit etc.

**19) GUARANTEE/ WARRANTY:**

The tenders shall furnish along with their quotations the under noted guarantee/ warranty.

- (i) Guarantee that they will supply spare parts if & when required on the agreed basis of or an agreed price. The agreed basis could be an agreed discount on the published catalogues or on agreed percentage of profit on the landed cost.
- (ii) Warranty to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment so that the latter may undertake the balance of the life requirements.
- (iii) The warranty to the effect that they will make available operation manual (s), the blueprints or drawings of the equipment/spares, if any, when required in connection with the main equipment.
- (iv) The contractor shall furnish the following warranty in case contract is placed on him: - The contractor/seller hereby declares that the good/store, articles sold to the buyer under this contract shall be of the best quality & workmanship & shall be strictly in accordance with the specification & particulars contained/mentioned in the clause 8 of general conditions of contract applicable to contracts placed by the **Directorate of Onion Garlic Research, Rajgurnagar, Pune.** Under it & sub-clause hear & the contractor/seller hereby guarantees that the said goods/stores/articles would continue to confirm to the description & quality aforesaid for a period of one year from the date of delivery of the said goods/stores/articles to the purchaser & that notwithstanding the facts that the Purchaser(Inspector may have inspected and/or approved the said good/stores/articles, if during the aforesaid period of one year the said good/stores/articles be discovered not to confirm to the description quality. On such rejection the good/articles/store will be at the seller's risk & all the provision herein contained relating to rejections of goods etc. shall apply the contractors seller shall if so be called upon to replace within a period as may be extended from time to time by the purchaser in his discretion on an application made thereof by the purchaser & in such an event the above mentioned warranty period shall apply to goods/stores/articles replaced from the date of replacement thereof otherwise the contractor/seller shall pay to the purchaser such damages such damages as may arise by reason of the breach of the condition herein contained. Nothing

herein contain prejudice any other right of the purchaser in that behalf this contract or otherwise. The firm should be able to provide sales after services for the quoted equipment for at least 3 years.

**20) JURISDICTION:**

All questions disputes or difference under, out of or in connection with the contract if concluded shall be subject to the exclusive jurisdiction of the Court within the Rajgurunagar jurisdiction.

**21) INSTALLATION AND DEMONSTRATION:**

Installation and Demonstration should do within 15 days time after receipt of delivery status. If the agency fails to provide installation and demonstration within stipulated time this directorate will deduct 1% on total amount of material/equipment from your EMD. The agency should do installation and demonstration by trained engineer in free of cost and ensure and certify that material is correct quantity and quality.

**22) TRAINING:**

Free of charge to Concern Scientist and his Assistant up to their satisfaction and confident.

**23) RESERVATION OF RIGHT TO ORDER ADDITIONAL QUANTITY:**

The purchaser reserves the right to place order on the successful tenderer for additional quantity offered by them at the rate quoted. Tenderers are bound to accept order for additional quantity under this clause.

**24) PRE-INSPECTION OF STORES BY THE CONTRACTORES:**

In case if a contract placed to you as a result of this tender. You should satisfy yourself that the stores are in accordance with the terms of the contracts and fully confirm to the required specifications carrying out through pre-inspection. Such precaution on your part should minimize the chance of rejection in inspection and the consequence thereof.

FOR AND ON BEHALF OF  
DIRECTORATE OF ONION AND GARLIC RESEACH ,  
Rajgurunagar- 410 505, Distt. Pune (MS)

SIGNATURE WITH STAMP OF THE BIDDERS

## ICAR- DIRECTORATE OF ONION AND GARLIC RESEARCH, RAJGURUNAGAR, PUNE – 410 505 (M.S.)

TENDER NO.

Full name & address of the Tender, in addition to post Box No. if any, should be Quoted in all communications To this office.	1. Firm's/ Contractor's Address detail
	_____
	_____
	2. Telephone
	No./Nos. _____
	3. Fax
	No. _____
	4. Email:- _____

To,

THE DIRECTOR

ICAR- Directorate of Onion and Garlic Research,  
Rajgurunagar, Pune- 410 505 (Maharashtra)

Dear Sir,

I/ We hereby offer to supply the stores detailed in the schedule here to 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 offer open till \_\_\_\_\_  
\_\_\_\_\_/We shall be bound by a communication of acceptance dispatched within the prescribed time.

I/We understood the instruction to Tenders & Conditions of Contract included in General Conditions of Contract covering contracts placed by the Director, Directorate of Onion and Garlic Research, Rajgurunagar, Pune under if & in the Special Conditions of contract & have thoroughly examined the specification drawing & /or pattern quoted in the schedule thereof & /are fully aware of the nature of the stores of the stores required & my/our offer is to supply stores strictly in accordance with the requirements.

The following pages have been added to & form part of this tender \_\_\_\_\_

Yours faithfully,

(SIGNATURE OF TENDERER)

Address \_\_\_\_\_

\_\_\_\_\_

Signature of witness:

Dated \_\_\_\_\_

Address \_\_\_\_\_

**DIRECTORATE OF ONION AND GARLIC RESEARCH,  
RAGURUNAGAR, PUNE – 410505 (MS)  
ANNUEXURE TO SCHEDULE TO TENDER**

(To be returned by Bidders as per specification along with the Tender duly completed and Signed)

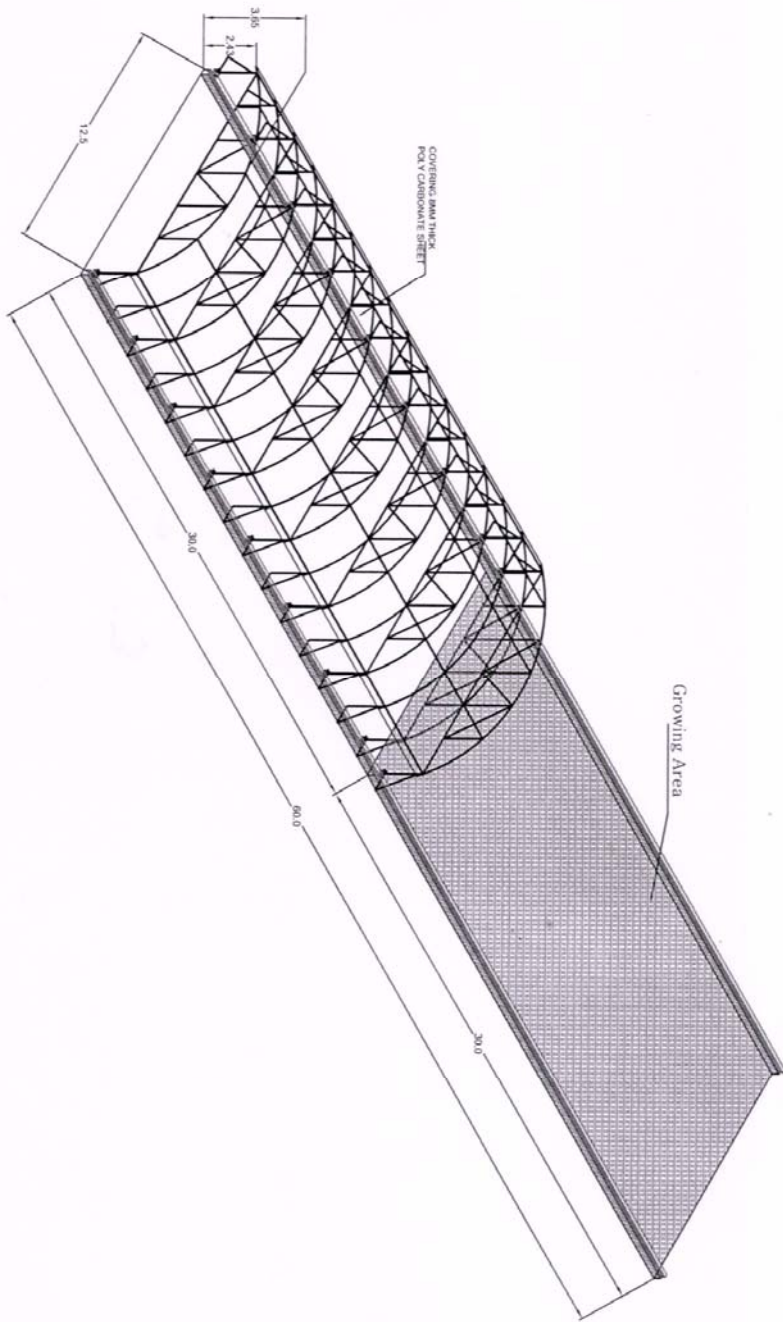
Sr. No.	Specification	Qty
1.	<p><b><u>Automated Rainout Shelter Facility (Under NICRA PROJECT)</u></b>  Total Area : 60m x 12.5m (750 sq. m including parking area)  Height at center : 12”  Height at sides : 8”  <b>Super Structure</b> : - Made of anti corrosive humidity resistant GI Sq. Pipe “B”Class of following sections=2mm., structure will have absolute strength to withstand maximum Indian wind load (150km/hr), complete as per requirement 60x60mm, 2mm thick, 38x38mm and 25x25mm, 47x47mm.</p> <p><b><u>Covering</u></b> :- Top covered with 8mm thick triple walled U.V. stabilized polycarbonate sheet fixed with polycarbonate, H”&amp; U”profile, aluminium strip with gasket, all edges/joints will be blocked with silicon sealant to avoid leakages. The sheet will be fixed in manner to escape the rains from sides.</p> <p><b><u>Moving Device</u></b>:- Conveyer wheels on railing fitted with ball bearing system for easy movement of the shed, operated by motorized mechanism to move the rain out shelter to and fro.</p> <p><b><u>Automation / Rain sensor</u></b>: - The system is equipped with rain sensor for automatic operation of system.</p> <p><b><u>Front and back</u></b> :- Provision for Shutter role.</p> <p><b><u>Foundation</u></b> :- In CC 1:3:6(60 cm) below ground level.</p> <p><b><u>Protection Wall</u></b> : 30 cm above and 30 cm below ground level made 230mm thick of 1<sup>st</sup> class bricks of class designation 75cm in 1:6 CM (1: cement, 6: coarse sand) exposed wall duly plastered in cement sand mortar and painted with exterior grade paint mixed with silicon additives .</p> <p><b><u>Controlled irrigation facility</u></b> : by providing following system.  Nozzles : Micro sprinkler over head / hanging type  Water Discharge : 40/70 LPH each nozzles  Quantity : As per requirements.  Lateral pipe : 16mm LDPE black  Filter : Disc. Online  Water storage : PVC 2000 Lt.  Pump : 1.0 HP as per requirements  Automation : By Digital timer 0-999  ON/OFF min/sec.  Water outlet connections at regular intervals, 2 on each side of structure with GI pipe 15-20 mm with necessary fittings.</p>	1

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	<p><b>Soil moisture monitoring : Time domain reflectometer</b></p> <ol style="list-style-type: none"> <li>1. TDR system for measurement <i>of in situ</i> soil moisture at different soil depth.</li> <li>2. Along with access tubes and accessories</li> <li>3. Should measure soil moisture content ranging from 0 to 100% with high percent accuracy.</li> <li>4. Operating temperature : up to 50°C</li> <li>5. Portable data logger/data acquisition system with battery charger compatible with Indian system; with USB serial port for data transfer to PC with user friendly software compatible with windows 7 and above, More than 1000 data/readings per one charging.</li> <li>6. Should be provided with probe cable of minimum 2 m length.</li> <li>7. Access tubes required : at least 60 number</li> <li>8. Soil auger equipment kit with accessories for fixing access tubes in soil up to 1 m depth.</li> <li>9. With carrying case</li> <li>10. Warranty: Minimum one year.</li> </ol>	
	<p>Housing of the motor and other electrical components should be sealed to protect from rain for longer operation.</p>	
	<p>DG set 5 KVA</p>	
	<p>The photographs of different models fixed at various institutes with authenticated proof may be submitted. Interested firms may visit the site and discuss the scientist before submission of the tender documents.</p>	
<p><b>A.</b></p>	<p><b>Subject to the following terms and conditions :-</b></p> <ol style="list-style-type: none"> <li>1. Income Tax, work Tax and work cess as per norms shall be recovered from the bill</li> <li>2. 1% water and electricity charges as will be recovered from the bill if it is supplied by office.</li> <li>3. The work shall start within 15 days from the date of award and complete within 45 days, failing which a penalty @ 1% per week delay will be imposed on the bill amount maximum upto 10%</li> <li>4. All the material, labours required will be arranged by the firms itself.</li> <li>5. The agency shall deposit a security @ 10% of the sanctioned amount including EMD</li> <li>6. The rates quoted shall remain valid for 180 days from the date of opening of quotations/tenders without assigning any reason.</li> </ol>	
<p><b>B.</b></p>	<p><b>Special conditions :</b></p> <ol style="list-style-type: none"> <li>1. Agency should have minimum experience of 5 years of construction of Rainout Shelter/Hi-tech green house (Proof should be enclosed.</li> <li>2. The agency should have executed at least two similar</li> </ol>	

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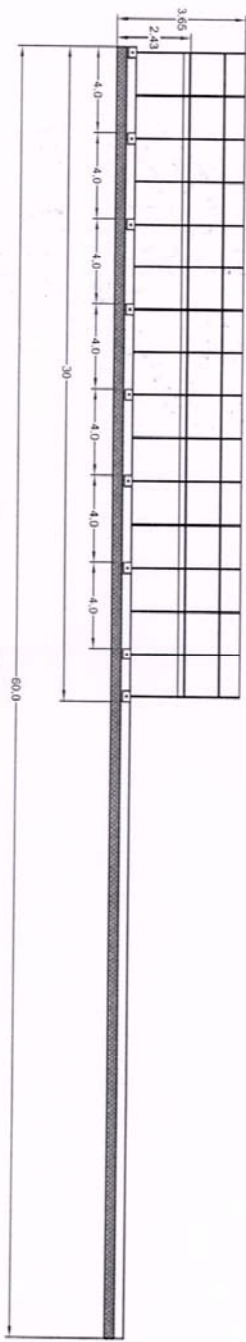
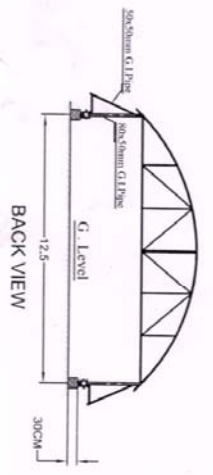
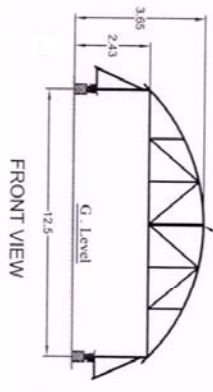


ISOMETRIC VIEW

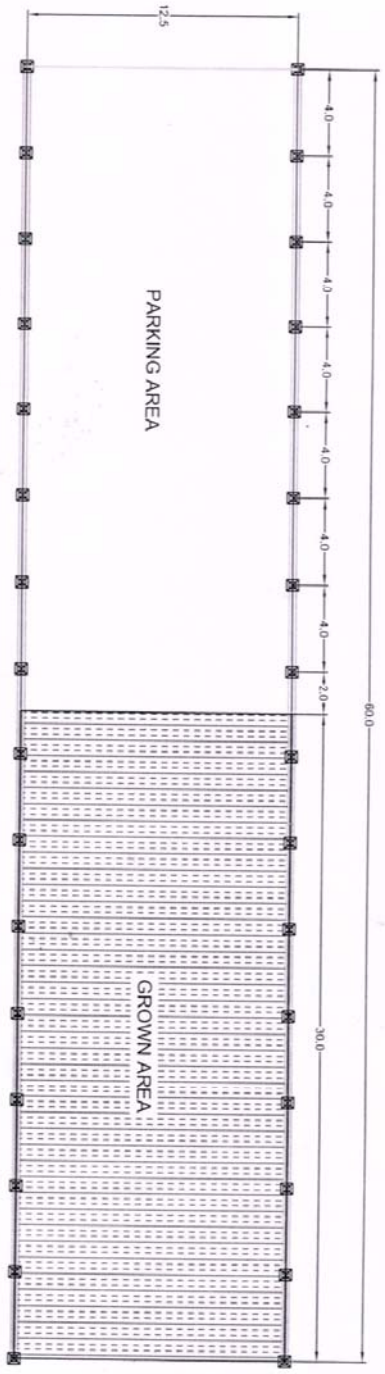
Automated Rainout  
shelter Facility

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PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT



LAYOUT PLAN



PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

PRODUCED BY AN AUTODESK EDUCATIONAL PRODUCT

Automated Rainout  
shelter facility

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2.	<p><b><u>Refrigerator :</u></b></p> <ul style="list-style-type: none"> <li>• 360 Litres Double Door Refrigerator</li> <li>• Toughened Glass Shelves</li> <li>• BEE 4 Star Rating</li> <li>• Frost Free Defrosting</li> <li>• Performance</li> <li>• Optimum Storage, Better Organisation</li> <li>• Star Rating : 4</li> <li>• Capacity : 360 Litres</li> <li>• Defrosting System : Frost Free</li> <li>• De-odorising : Catechin</li> <li>• Temperature Control : E-Micom</li> <li>• Door Lock : Yes</li> <li>• No of Doors : 2</li> <li>• Type of Door : Double</li> <li>• Material Used for Shelves : Toughened Glass</li> <li>• Moisture or Humidity Control :Yes</li> <li>• Voltage (Volts) : 100-290</li> <li>• Dimensions ( W x D X H) (mm): 600 x 685 x 1780</li> <li>• ISO or equivalent certified</li> </ul>	1
3	<p><b><u>UV-Visible Spectrophotometer :-</u></b></p> <ol style="list-style-type: none"> <li>1. It should be monochromator based wavelength selection for measuring absorbance.</li> <li>2. Light source should be Xenon flash Lamp</li> <li>3. Wavelength range should be 220 to 900 nm with 1nm increment</li> <li>4. Scanning speed should be maximum 10 seconds with entire wavelength limit.</li> <li>5. It should read both cuvette (standard) and standard size 96 well plate.</li> <li>6. It should read from plate of 96 and 384 well and measurement time should be less than 15 seconds in all wells.</li> <li>7. Stray light should be less than 0.05% at 230nm</li> <li>8. Photometric range 0-4 Abs or OD, resolution 0.001 OD and band width should be less than 4.0 nm.</li> <li>9. Linearity range should be 0-2.5 Abs, accuracy should be 1%+0.003Abs(0-2 Abs) and precision should be standard deviation less than 0.003 Abs or CV less than 0.5%.</li> <li>10. Shaking should be linear</li> </ol>	1

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	<ol style="list-style-type: none"> <li>11. Spectrophotometer should be suitable for elemental, biochemical analysis, enzyme kinetics, cellular assay, DNA, RNA and protein analysis, immunoassays, reporter gene assays etc.</li> <li>12. It should have end point, kinetic and spectral scanning</li> <li>13. It should have broad wavelength range with the UV area, Path length correction and fast scanning suitable for DNA, RNA and protein analysis.</li> <li>14. Both cuvette holder and plate chamber should be suitable or temperature up to 45 °C (incubation temperature)</li> <li>15. It should have USB connectivity and the equipment should operate through user interface software.</li> <li>16. Spectrophotometer should be connected with computer with user interface software.</li> <li>17. It should have suitable software for instrument control and assay setup and data analysis includes inbuilt calculations, spectral reduction and parallel line analysis etc. Analyzed data should be exported to Excel Format easily.</li> <li>18. It should have automatic self diagnostics at instrument start-up to verify all major instrument functionalities such as instrument positioning, lamp and monochromator measurement electronics operation etc.</li> <li>19. The computer should be compatible with instruments for all kinds of data analysis related to this instruments and the desktop should have processor of i7, 16GB DDR3 RAM, hard disc of 1 TB HDD (or higher), with wireless ready, DVD Writer, keyboard and Optical Mouse, one GB Graphic Card, inbuilt LAN, USBs. Monitor should be 21 inch. With Operating System: Windows 8 license with media along with printer. The system should also be installed with genuine MS Office and software should allow export of data to excel file.</li> <li>20. Suitable 3 KVA online UPS for power back up during power failure for 1 hr to run instrument, computer and printer.</li> <li>21. Instrument should be supplied with Free Issue Material for initial installation and demonstration of the equipment i.e. Pack of 100 ELISA plates, pack of 100 UV transparent plates, 100 disposable cuvettes and 2 quartz cuvettes.</li> <li>22. Should quote additional two years warranty separately.</li> </ol>	
4.	<p><b><u>LCD Projector :-</u></b>          Illumination Around 3000 – 4000          Contrast Ratio – Around 3000-4000:1          Aspect Ratio : 4:3          Life of lamp eco modes &gt; 5000 hrs          Audio with speaker          Connectivity : USB Port, HDMI, S-Video Input          With HDMI 30 mtr cable          S-Video to HDMI Converter          Hydraulic Hanging system with fitting          8 x 6 Feet White Scrolling Screen</p>	1

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5.	<p><b><u>Air Conditioner</u></b> : 1.5 Ton Capacity-Split</p> <ul style="list-style-type: none"> <li>• 3 Star Rating or more</li> <li>• with remote control</li> <li>• with 5 KVA stabilizer.</li> </ul>	2
6.	<p><b><u>Water Bath</u></b> : (With buyback : Shaker Water bath with Accessories No. MAC/SD, date of purchase 10-12-2004 )</p> <ul style="list-style-type: none"> <li>• Rectangular, double walled construction</li> <li>• Inner chamber made of stainless steel and outer body made of mild steel duly powder coated</li> <li>• Temperature range 5 °C above ambient to 99°C</li> <li>• Fitted with immersion type heater, digital temp. Controller cum indicator accu ± 0.5°C</li> <li>• Circular pump with stirrer</li> <li>• Size in Cms (L X B X H) : 18"x 12"X 10"</li> <li>• ISO or equivalent certified</li> </ul>	1
7.	<p><b><u>Food Grade Drier</u></b> :</p> <p>Model : Ultra FD 1000</p> <p>Material : Food grade ABS Plastic Polycarbonate</p> <p>Voltage : 230 to 240V AC</p> <p>Frequency : 50 Hz</p> <p>Power : 1000 Watt/Hour</p> <p>Temperature : Variable temperature of range 30°C to 63°C</p> <p>Motor Fan : Max High revving</p> <p>Safety features : Element: Thermal Fuse Motor : Thermal Fuse</p> <p>Double insulated</p> <p>No. Of trays : 10</p> <p>Certificate : ISO or equivalent</p>	1
8	<p><b><u>Super Critical Fluid Extractor</u></b> :</p> <ul style="list-style-type: none"> <li>• Extraction unit with CO2 pump</li> <li>• Heat exchanger</li> <li>• Co<sub>2</sub> Recycle</li> <li>• Modifier pump for Polar Solvents</li> <li>• Circulating Chiller bath (800 BTU/hr. 15 liter/min. Temp 10 °C to 40 °C, Noise free and microprocessor controlled).</li> <li>• The system should be equipped with necessary safety pressure valve.</li> <li>• Operation temperature : Ambient to 250 degree C ; Pressure: Ambient to 10,000 psi (680 BAR) Pump flow rate: 0 – 300 mL/min. Or better</li> <li>• Extraction vessel : Should be able to use 500 mL. Vessel for reaction and extraction purposes (Should be able to use these vessels up to max. Pressure of 10,000psi/680 BAR)</li> </ul>	1

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	<ul style="list-style-type: none"> <li>Collection Vessel : 300ml (Should be able to use these vessels up to max. Pressure of 10,000 psi and 680 BAR)</li> <li>Independent temperature and pressure control of extraction vessel and separator vessel.</li> <li>System should be supplied with GAS Kit for Nanoparticle Characterization.</li> <li>Data operation system</li> <li>Provide Co<sub>2</sub> cylinder and chiller.</li> </ul> <p><b>Spare Part</b></p> <ul style="list-style-type: none"> <li>Pressurized (accelerated) solvent extraction and sub critical water extraction.</li> </ul> <p><b>Optional</b></p> <ul style="list-style-type: none"> <li>Cyclone Separator : 100mL, 500mL, 300mL cyclonic• separator vessel assemblies ( to 10,000 psi/680 BAR)</li> <li>Stirrer addition capability (optional stirrer assembly)</li> </ul> <p><b>Warranty :-</b> Warranty 2 years Comprehensive warranty from the date of installation AMC : Optional 3 years should be quoted separately.</p>	
9.	<p><b><u>Vapour Pressure Osmometer :-</u></b></p> <ul style="list-style-type: none"> <li><b>Sample Volume</b> : 10ul nominal (larger samples or samples as small as 2 ul can be measured reliably with special procedures)</li> <li><b>Measurement Range</b> : Typically 0 to 3200 mmol/kg @ 25o C ambient (up to 3800 mmol/kg with extended range option)</li> <li><b>Measurement Time</b> : 75 seconds</li> <li><b>Resolution</b> : 1 mmol/kg</li> <li><b>Repeatability Standard deviation</b> = 2 mmol/kg</li> <li><b>Linearity</b> : 2% of reading from 100 to 2000 mmol/kg</li> <li><b>Readout</b> : 10 x 6.8 cm LCD</li> <li><b>Operating Temperature</b> : 15 to 37o C ambient (instrument should be at stable temperature before calibrating)</li> <li><b>Calibration</b> :Automatic using opti-mole™ osmolality standards (non-battery memory backup system)</li> <li><b>Serial output RS-232</b> (ASCII format)</li> <li><b>Electrical Line Voltage</b> : 100 to 120 V or 220 to 240 V nominal, 50 to 60 Hz (set at factory, User selectable with fuse change)</li> <li><b>Power</b> : Less than 5 watts</li> <li><b>Fuses</b> : 1/8 amp time-delay type for 100/120 volts (2 required) 1/16 amp time-delay type for 220/240 volts (2 required)</li> <li>Osmolarity standard should be given with machine</li> <li>CE Certified.</li> <li><b>Warranty</b> : 1 year (Parts and labour)</li> </ul>	1

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10.	<p><b><u>Dewpoint Potentimeter :</u></b></p> <ul style="list-style-type: none"> <li>• <b>Range :</b> 0 to -300 MPa</li> <li>• <b>Accuracy :</b> <math>\pm 0.1</math> MPa from 0 to -10 MPa 1% from -10 to -300MPa</li> <li>• <b>Resolution :</b> 0.1 MPa</li> <li>• <b>Measurement Time :</b> 5 minutes for most soil samples and 20 minutes for plant tissue samples</li> <li>• <b>Temperature Control :</b> 15 to 50 °C ( <math>\pm 0.2</math> °C)</li> <li>• <b>Sensor Type :</b> 1) Chilled – Mirror dewpoint sensor 2) Infrared temperature sensor</li> <li>• <b>Operating Environment :</b> 5 to 43 °C (41 to 110°F)</li> <li>• <b>Universal Power :</b> 5 to 43 °C (41 to 110°F)</li> <li>• <b>Sample Dish Capacity :</b> 7 ml recommended (15 ml full)</li> <li>• <b>Case Material :</b> Powder-painted aluminium</li> <li>• <b>Data Communications :</b> RS232 compatible, 8-data bit ASCII code, 9600 baud, no parity, 1 stop bit</li> <li>• <b>Display :</b> 20 x 2 alphanumeric dot-matrix LCD with backlighting</li> <li>• <b>Interface Cable :</b> Standard RS232 serial cable (included)</li> <li>• CE certified</li> <li>• <b>Warranty :</b> 1 years, parts and labor</li> <li>• <b>Accessories :</b> 3KV online UPS with 30 min. backup</li> </ul>	1
11	<p><b><u>Gradient Thermal Cycler (PCR Machine) :-</u></b></p> <ol style="list-style-type: none"> <li>1. The systems should be a 96 well Thermal Cycler with 6 separate peltier blocks to provide independent temperature zones to run – six different assays with varying annealing temperatures at the same time.</li> <li>2. Block Ramp Rate : at least 4.0 °C/sec</li> <li>3. Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of upto 5 degree centigrade between blocks.</li> <li>4. Run upto 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.</li> <li>5. On board Tm calculator facility to approximate the optimal annealing temperature.</li> <li>6. The system should provide for standard and fast run modes in a single instrument with the ability to use 0.2 ml / 0.1 ml PCR or micro-well plates.</li> <li>7. The system should support PCR volumes ranging from 10 to 80 ul</li> </ol>	1

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	<p>8. Mouse or stylus free navigation capability with VGA colour touch screen allowing for easy intuitive graphical user interface programming.</p> <p>9. Choice of saving the methods upto 800 to the instrument or unlimited to a USB memory stick.</p> <p>10. Programmable heat lid cover from 50 degree to 105 degree centigrade for efficient PCR Optimization.</p> <p>11. Security: The system should have the ability to store methods on a memory stick.</p> <p>12. Portability: The system should have a USB port to transfer methods from one machine to another.</p> <p>13. The system should allow easy product updates via USB port.</p> <p>14. Warranty “: 2 years (Service and replacement)</p> <p>15. CE Certified</p> <p><b>Accessories :-</b></p> <p>16. Micropipette : (0.1 to 1.0 ul, 2-20 ul, 20-200 ul volume range from Eppendorf)</p> <p>17. Electrophoresis unit with gel tray</p> <p>18. 0°C Mini cooler, -20°C Mini cooler, Micro centrifuge for 200 ul tubes (at least 12 places)</p> <p><b><u>Free issue material for standardization :-</u></b></p> <p>19. Primer synthesis for 20 pairs of primers (Length : 25 bps approx)</p> <p>20. Reagents (From reputed company): High fidelity polymerase for long PCR, RT enzyme, Taq polymerase, oligo dT, RNase free water, DNase free water, restriction enzymes six in number.</p>	
12.	<p><b><u>Dissecting Trinocular Microscope With Camera attachment:</u></b></p> <p>Windows software attachment computer system, Captures HD images and HD Video recording option</p> <p>Magnification: 45x and above</p> <p>Field of views : 4cm and above</p> <p>Good working distance : 10cm and above</p> <p>Anti glary coated to clean view and avoid contamination</p> <p>Illumination: Internal LED illumination and external.</p> <p>Intensities can be separately adjustable options.</p>	1
13.	<p><b><u>Vertical electrophoresis system :</u></b></p> <p>with blotting unit and power supply unit with 50-300 volts range</p> <p>Number of gel cast more than 2</p> <p>Costing time less than 4 hours</p> <p>Gel plate size 10-18 x 10-24 cm</p> <p>With spacers 0.75 mm, 1.0mm, 1.5 mm.</p>	1

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14.	<p><b><u>Compact Centrifuge :</u></b></p> <p>Micro filters separation,  Open lid option in case of power failure  Speed : 15000 rpm and above  Option : xg or rpm  Capacity : 18-32 places of 2 mL rotors,  1.5 ml and 0.5ml adapter rotors</p>	1
15	<p><b><u>Incubator –Cum-Orbital Shaker :</u></b></p> <p>Chamber size : 500-600 x 500-600 x 300-500 mm  Spring loaded SS Lotus Clamps (removable) for use of shaker,  Supplied with adjustable by separating. Lotus Clamps for conical flask..  Digital Speed indicator controller  Digital temperature controller (4 °c to 80° c)</p>	1
16	<p><b><u>Humidifier :-</u></b></p> <p><u>Range</u> : Humidity range ambient to 95 %  RH with accuracy <math>\pm 5\%</math> RH  Capacity 3 litres  Controller : Microprocessor based RH  Controller  Sensor : Inbuilt  Outer Chamber made up of C.R.C.A. steel</p>	1
17	<p><b><u>Mini Tractor :-</u></b></p> <p>18-25 HP, four wheel drive  Wet disc type brake, rated speed 1600-2200 RPM,  Capacity CC 900-1300 CC.  Lifting capacity 400-500 kg with the  Accessories (trolley, harrow, cultivator,  Seed drill, rotavator and bund former</p>	2
18	<p><b><u>UPS 10 KVA :-</u></b></p> <p>10 KVA online UPS system stand alone/rack mountable working on three phase input single phase output, 1GBT based double conversion digitally controlled microprocessor system, with SNMP card and LCD Display with two year warranty.  Battery bank for 120 min backup along with inter connecting cables, cable from UPS to Battery Bank through battery, along with battery stand.</p>	5
19	<p><b><u>CCTV Camera (complete system with supply &amp; Installation) :-</u></b></p> <ol style="list-style-type: none"> <li>16 Ch. NVR (for 2 MP Hd Camera)____ 1 Nos.  1080P Play back and Recording/Cloud Base/10/100  Supported outputs : TV Video, VGA, Hdmi (Monitor) and USB2.0.-3 port  Dual encoding streams supported, Minimum 40 Days Recording</li> <li>2 MP ip Hd IR Bullet / Dome / Outdoor --- approx 10-12 Nos.  Speed Dome IP Camera, 60 FPS, 18 x Zoom, ---- 2 Nos.)</li> <li>CCTV Cameras cabling, laying, Installation with all Peripherals,  * Scope – Approx 1 Km Camera Connectivity (Wired/Wireless)</li> </ol>	1

20	<b>Furniture and Fixture Items</b>	
	1. Steel Filling Cabinet 4 drawers (470 W x 620 D x 1320 H)	4
	2. Lab chairs with revolving and height adjustability	10
	3. Wooden Stool Size – 1 ft* 1 ft of W*H,	1
	1 ft* 2 ft of W*H	1
	1 ft* 3 ft of W*H	1
	4. Lab working table 10 feet length, 2 feet width, 2.5 feet height with storage compartmental door and above 3 tier rack (between 3 tiers at 1feet height x 0.5 feet width) with lock (Table : L-3.2-3.5m * H-0.8-0.9 m * W 0.7-0.75m, Above the table top; Racks in 3-tiers with W-15 cm * L-90cm * H-30cm, Table top: Granite Case, Table Bottom : Upper draw with lock and below cabin compartment having 2 shelves with double door lock, 3 double door cabin (90 cm each) in between 2 leg space (45 cm each)	2
	5. Lab Work table : Length 3-4 feet, width 2 feet and height 3 feet and draws both side with lock	1
	6. Book shelf with 4 compartment with glass panel and locking	2
	7. Lab working stool steel made	3
	8. Visitor chairs without arm from reputed company	6
	9. Iron Rack 175 x 95 cm with four horizontal positions	2
	10. Computer table with drawer and adjustable key board stand Size : 1200 mm W x 600 mm D x 750 mm H	3
	11. Three seated Airport Chair (stainless steel), size : 183 cm W x 67 cm D x 77.5 cm H and seat height 40 cm.	3
	12. Centre Table : Stainless Steel stand with 12 mm thick black toughed gloss (112 cm W x 60 cm D x 35.1 cm H)	2
	13. Side Table :- Stainless steel stand with 12 mm thick black toughed gloss (60 cm W x 60 cm D x 35.1 cm H)	2
	14. Stainless steel canteen table : Four seated type, Size : 1180 W x 750 D x 750 H mm	4
	15. Lounge Sofa, three seated with stainless steel stands and frame from reputed company, size : 1640 W x 700 D x 785 H mm, Lounge seating with Hexing back system on beam with side frame assembly	4

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## ICAR- DIRECTORATE OF ONION AND GARLIC RESARCH, RAGURUNAGAR, PUNE – 410505 (MS)

Note: - Vendors are requested to attach the Technical compliance statement with respect to above Specification as per

Sr.No.	Specification ASKED FOR	Specification offered
1.	<p><b>Automated Rainout Shelter Facility (Under NICRA PROJECT)</b>            Total Area : 60m x 12.5m (750 sq. m including parking area)            Height at center : 12”            Height at sides : 8”  <b>Super Structure</b> : - Made of anti corrosive humidity resistant GI Sq. Pipe “B”Class of following sections=2mm., structure will have absolute strength to withstand maximum Indian wind load (150km/hr), complete as per requirement 60x60mm, 2mm thick, 38x38mm and 25x25mm, 47x47mm.</p> <p><b>Covering</b> :- Top covered with 8mm thick triple walled U.V. stabilized polycarbonate sheet fixed with polycarbonate, H”&amp; U”profile, aluminium strip with gasket, all edges/joints will be blocked with silicon sealant to avoid leakages. The sheet will be fixed in manner to escape the rains from sides.</p>	
	<p><b>Moving Device</b>:- Conveyer wheels on railing fitted with ball bearing system for easy movement of the shed, operated by motorized mechanism to move the rain out shelter to and fro.</p> <p><b>Automation / Rain sensor</b>: - The system is equipped with rain sensor for automatic operation of system.</p> <p><b>Front and back</b> :- Provision for Shutter role.</p> <p><b>Foundation</b> :- In CC 1:3:6(60 cm) below ground level.</p> <p><b>Protection Wall</b> : 30 cm above and 30 cm below ground level made 230mm thick of 1<sup>st</sup> class bricks of class designation 75cm in 1:6 CM (1: cement, 6: coarse sand) exposed wall duly plastered in cement sand mortar and painted with exterior grade paint mixed with silicon additives .</p>	
	<p><b>Controlled irrigation facility</b> : by providing following system.            Nozzles : Micro sprinkler over head / hanging type            Water Discharge : 40/70 LPH each nozzles            Quantity : As per requirements.            Lateral pipe : 16mm LDPE black            Filter : Disc. Online            Water storage : PVC 2000 Lt.            Pump : 1.0 HP as per requirements            Automation : By Digital timer 0-999            ON/OFF min/sec.            Water outlet connections at regular intervals, 2 on each side of structure with GI pipe 15-20 mm with necessary fittings.</p>	

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	<p><b>Soil moisture monitoring : Time domain reflectometer</b></p> <ol style="list-style-type: none"> <li>1. TDR system for measurement <i>of in situ</i> soil moisture at different soil depth.</li> <li>2. Along with access tubes and accessories</li> <li>3. Should measure soil moisture content ranging from 0 to 100% with high percent accuracy.</li> <li>4. Operating temperature : up to 50°C</li> <li>5. Portable data logger/data acquisition system with battery charger compatible with Indian system; with USB serial port for data transfer to PC with user friendly software compatible with windows 7 and above, More than 1000 data/readings per one charging.</li> <li>6. Should be provided with probe cable of minimum 2 m length.</li> <li>7. Access tubes required : at least 60 number</li> <li>8. Soil auger equipment kit with accessories for fixing access tubes in soil up to 1 m depth.</li> <li>9. With carrying case</li> <li>10. Warranty: Minimum one year.</li> </ol>	
	<p>Housing of the motor and other electrical components should be sealed to protect from rain for longer operation.</p>	
	<p>DG set 5 KVA</p>	
	<p>The photographs of different models fixed at various institutes with authenticated proof may be submitted. Interested firms may visit the site and discuss the scientist before submission of the tender documents.</p>	
<p>A.</p>	<p><b>Subject to the following terms and conditions :-</b></p> <ol style="list-style-type: none"> <li>1. Income Tax, work Tax and work cess as per norms shall be recovered from the bill</li> <li>2. 1% water and electricity charges as will be recovered from the bill if it is supplied by office.</li> <li>3. The work shall start within 15 days from the date of award and complete within 45 days, failing which a penalty @ 1% per week delay will be imposed on the bill amount maximum upto 10%</li> <li>4. All the material, labours required will be arranged by the firms itself.</li> <li>5. The agency shall deposit a security @ 10% of the sanctioned amount including EMD</li> <li>6. The rates quoted shall remain valid for 180 days from the date of opening of quotations/tenders without assigning any reason.</li> </ol>	

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B.	<p><b>Special conditions :</b></p> <ol style="list-style-type: none"> <li>1. Agency should have minimum experience of 5 years of construction of Rainout Shelter/Hi-tech green house (Proof should be enclosed).</li> <li>2. The agency should have executed at least two similar</li> </ol>	
2.	<p><b><u>Refrigerator :</u></b></p> <ul style="list-style-type: none"> <li>• 360 Litres Double Door Refrigerator</li> <li>• Toughened Glass Shelves</li> <li>• BEE 4 Star Rating</li> <li>• Frost Free Defrosting</li> <li>• Performance</li> <li>• Optimum Storage, Better Organisation</li> <li>• Star Rating : 4</li> <li>• Capacity : 360 Litres</li> <li>• Defrosting System : Frost Free</li> <li>• De-odorising : Catechin</li> <li>• Temperature Control : E-Micom</li> <li>• Door Lock : Yes</li> <li>• No of Doors : 2</li> <li>• Type of Door : Double</li> <li>• Material Used for Shelves : Toughened Glass</li> <li>• Moisture or Humidity Control :Yes</li> <li>• Voltage (Volts) : 100-290</li> <li>• Dimensions ( W x D X H ) (mm): 600 x 685 x 1780</li> <li>• ISO or equivalent certified</li> </ul>	
3	<p><b><u>UV-Visible Spectrophotometer :-</u></b></p> <ol style="list-style-type: none"> <li>1. It should be monochromator based wavelength selection for measuring absorbance.</li> <li>2. Light source should be Xenon flash Lamp</li> <li>3. Wavelength range should be 220 to 900 nm with 1nm increment</li> <li>4. Scanning speed should be maximum 10 seconds with entire wavelength limit.</li> <li>5. It should read both cuvette (standard) and standard size 96 well plate.</li> <li>6. It should read from plate of 96 and 384 well and measurement time should be less than 15 seconds in all wells.</li> <li>7. Stray light should be less than 0.05% at 230nm</li> <li>8. Photometric range 0-4 Abs or OD, resolution 0.001 OD and band width should be less than 4.0 nm.</li> <li>9. Linearity range should be 0-2.5 Abs, accuracy should be</li> </ol>	

- 1%+0.003Abs(0-2 Abs) and precision should be standard deviation less than 0.003 Abs or CV less than 0.5%.
10. Shaking should be linear
  11. Spectrophotometer should be suitable for elemental, biochemical analysis, enzyme kinetics, cellular assay, DNA, RNA and protein analysis, immunoassays, reporter gene assays etc.
  12. It should have end point, kinetic and spectral scanning
  13. It should have broad wavelength range with the UV area, Path length correction and fast scanning suitable for DNA, RNA and protein analysis.
  14. Both cuvette holder and plate chamber should be suitable or temperature up to 45 °C (incubation temperature)
  15. It should have USB connectivity and the equipment should operate through user interface software.
  16. Spectrophotometer should be connected with computer with user interface software.
  17. It should have suitable software for instrument control and assay setup and data analysis includes inbuilt calculations, spectral reduction and parallel line analysis etc. Analyzed data should be exported to Excel Format easily.
  18. It should have automatic self diagnostics at instrument start-up to verify all major instrument functionalities such as instrument positioning, lamp and monochromator measurement electronics operation etc.
  19. The computer should be compatible with instruments for all kinds of data analysis related to this instruments and the desktop should have processor of i7, 16GB DDR3 RAM, hard disc of 1 TB HDD (or higher), with wireless ready, DVD Writer, keyboard and Optical Mouse, one GB Graphic Card, inbuilt LAN, USBs. Monitor should be 21 inch. With Operating System : Windows 8 license with media along with printer. The system should also be installed with genuine MS Office and software should allow export of data to excel file.
  20. Suitable 3 KVA online UPS for power back up during power failure for 1 hr to run instrument, computer and printer.
  21. Instrument should be supplied with Free Issue Material for initial installation and demonstration of the equipment i.e. Pack of 100 ELISA plates, pack of 100 UV transparent plates, 100 disposable cuvettes and 2 quartz cuvettes.
  22. Should quote additional two years warranty separately.

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4.	<p><b><u>LCD Projector :-</u></b>          Illuminaton Around 3000 – 4000          Contrast Ratio – Around 3000-4000:1          Aspect Ratio : 4:3          Life of lamp eco modes &gt; 5000 hrs          Audio with speaker          Connectivity : USB Port, HDMI, S-Video Input          With HDMI 30 mtr cable          S-Video to HDMI Convertor          Hydraulic Hanging system with fitting          8 x 6 Feet White Scrolling Screen</p>	
5.	<p><b><u>Air Conditioner</u> : 1.5 Ton Capacity-Split</b></p> <ul style="list-style-type: none"> <li>• 3 star Rating or more</li> <li>• With remote control</li> <li>• With 5 KVA stabilizer.</li> </ul>	
6.	<p><b><u>Water Bath : (Buy Back :-Shaker Water bath with Accessories No. MAC/SD, Date of Purchase 10.12.2004 )</u></b></p> <ul style="list-style-type: none"> <li>• Rectangular, double walled construction</li> <li>• Inner chamber made of stainless steel and outer body made of mild steel duly powder coated</li> <li>• Temperature range 5 °C above ambient to 99°C</li> <li>• Fitted with immersion type heater, digital temp. Controller cum indicator accu ± 0.5°C</li> <li>• Circular pump with stirrer</li> <li>• Size in Cms (L X B X H) : 18"x 12"X 10"</li> <li>• ISO or equivalent certified</li> </ul>	
7.	<p><b><u>Food Grade Drier :</u></b></p> <p>Model : Ultra FD 1000          Material : Food grade ABS Plastic Polycarbonate          Voltage : 230 to 240V AC          Frequency : 50 Hz          Power : 1000 Watt/Hour          Temperature : Variable temperature of range 30°C to 63°C          Motor Fan : Max High revving          Safety features : Element: Thermal Fuse Motor : Thermal Fuse          Double insulated          No. Of trays : 10          Certificate : ISO or equivalent</p>	

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8

**Super Critical Fluid Extractor :**

- Extraction unit with CO2 pump
- Heat exchanger
- Co<sub>2</sub> Recycle
- Modifier pump for Polar Solvents
- Circulating Chiller bath (800 BTU/hr. 15 liter/min. Temp 10 °C to 40 °C, Noise free and microprocessor controlled).
- The system should be equipped with necessary safety pressure valve.
- Operation temperature : Ambient to 250 degree C ; Pressure: Ambient to 10,000 psi (680 BAR) Pump flow rate: 0 – 300 mL/min. Or better
- Extraction vessel : Should be able to use 500 mL. Vessel for reaction and extraction purposes (Should be able to use these vessels up to max. Pressure of 10,000psi/680 BAR)
- Collection Vessel : 300ml (Should be able to use these vessels up to max. Pressure of 10,000 psi and 680 BAR)
- Independent temperature and pressure control of extraction vessel and separator vessel.
- System should be supplied with GAS Kit for Nanoparticle Characterization.
- Data operation system
- Provide Co<sub>2</sub> cylinder and chiller.

**Spare Part**

- Pressurized (accelerated) solvent extraction and sub critical water extraction.

**Optional**

- Cyclone Separator : 100mL, 500mL, 300mL cyclonic separator vessel assemblies ( to 10,000 psi/680 BAR)
- Stirrer addition capability (optional stirrer assembly)

**Warranty :-**

Warranty 2 years Comprehensive warranty from the date of installation AMC : Optional 3 years should be quoted separately.

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9.	<p><b><u>Vapour Pressure Osmometer :-</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>Sample Volume</u></b> : 10ul nominal (larger samples or samples as small as 2 ul can be measured reliably with special procedures)</li> <li>• <b>Measurement Range</b> : Typically 0 to 3200 mmol/kg @ 25o C ambient (up to 3800 mmol/kg with extended range option)</li> <li>• <b>Measurement Time</b> : 75 seconds</li> <li>• <b>Resolution</b> : 1 mmol/kg</li> <li>• <b>Repeatability Standard deviation</b> = 2 mmol/kg</li> <li>• <b>Linearity</b> : 2% of reading from 100 to 2000 mmol/kg</li> <li>• <b>Readout</b> : 10 x 6.8 cm LCD</li> <li>• <b>Operating Temperature</b> : 15 to 37o C ambient (instrument should be at stable temperature before calibrating)</li> <li>• <b>Calibration</b> :Automatic using opti-mole™ osmolality standards (non-battery memory backup system)</li> <li>• <b>Serial output RS-232</b> (ASCII format)</li> <li>• <b>Electrical Line Voltage</b> : 100 to 120 V or 220 to 240 V nominal, 50 to 60 Hz (set at factory, User selectable with fuse change)</li> <li>• <b>Power</b> : Less than 5 watts</li> <li>• <b>Fuses</b> : 1/8 amp time-delay type for 100/120 volts (2 required) 1/16 amp time-delay type for 220/240 volts (2 required)</li> <li>• Osmolarity standard should be given with machine</li> <li>• CE Certified.</li> <li>• <b>Warranty</b> : 1 year (Parts and labour)</li> </ul>	
10.	<p><b><u>Dewpoint Potentimeter :</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>Range</u></b> : 0 to 300 MPa</li> <li>• <b><u>Accuracy</u></b> : ± 0.1 MPa from 0 to – 10 MPa 1% from – 10 to – 300MPa</li> <li>• <b>Resolution</b> : 0.1 MPa</li> <li>• <b>Measurement Time</b> : 5 minutes for most soil samples and 20 minutes for plant tissue samples</li> <li>• <b>Temperature Control</b> : 15 to 50 °C ( ±0.2 °C)</li> <li>• <b>Sensor Type</b> : 1) Chilled – Mirror dewpoint sensor 2) Infrared temperature sensor</li> <li>• <b>Operating Environment</b> : 5 to 43 °C (41 to 110°F)</li> </ul>	

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	<ul style="list-style-type: none"> <li>• <b>Universal Power</b> : 5 to 43 °C (41 to 110°F)</li> <li>• <b>Sample Dish Capacity</b> : 7 ml recommended (15 ml full)</li> <li>• <b>Case Material</b> : Powder-painted aluminium</li> <li>• <b>Data Communications</b> : RS232 compatible, 8-data bit ASCII code, 9600 baud, no parity, 1 stop bit</li> <li>• <b>Display</b> : 20 x 2 alphanumeric dot-matrix LCD with backlighting</li> <li>• <b>Interface Cable</b> : Standard RS232 serial cable (included)</li> <li>• CE certified</li> <li>• <b>Warranty</b> : 1 years, parts and labor</li> <li>• <b>Accessories</b> : 3KV online UPS with 30 min. backup</li> </ul>	
11	<p><b><u>Gradient Thermal Cycler (PCR Machine) :-</u></b></p> <ol style="list-style-type: none"> <li>1. The systems should be a 96 well Thermal Cycler with 6 separate peltier blocks to provide independent temperature zones to run – six different assays with varying annealing temperatures at the same time.</li> <li>2. Block Ramp Rate : at least 4.0 °C/sec</li> <li>3. Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of upto 5 degree centigrade between blocks.</li> <li>4. Run upto 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.</li> <li>5. On board Tm calculator facility to approximate the optimal annealing temperature.</li> <li>6. The system should provide for standard and fast run modes in a single instrument with the ability to use 0.2 ml / 0.1 ml PCR or micro-well plates.</li> <li>7. The system should support PCR volumes ranging from 10 to 80 ul</li> </ol>	
	<ol style="list-style-type: none"> <li>8. Mouse or stylus free navigation capability with VGA colour touch screen allowing for easy intuitive graphical user interface programming.</li> <li>9. Choice of saving the methods upto 800 to the instrument or unlimited to a USB memory stick.</li> <li>10. Programmable heat lid cover from 50 degree to 105 degree centigrade for efficient PCR Optimization.</li> <li>11. Security: The system should have the ability to store methods on a memory stick.</li> <li>12. Portability: The system should have a USB port to transfer methods from one machine to another.</li> <li>13. The system should allow easy product updates via USB port.</li> <li>14. Warranty “: 2 years (Service and replacement)</li> </ol> <p>CE Certified</p>	

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	<p><b><u>Accessories :-</u></b></p> <p>15. Micropipette : (0.1 to 1.0 ul, 2-20 ul, 20-200 ul volume range from Eppendorf)</p> <p>16. Electrophoresis unit with gel tray</p> <p>17. 0°C Mini cooler, -20°C Mini cooler, Micro centrifuge for 200 ul tubes (at least 12 places)</p> <p><b><u>Free issue material for standardization :-</u></b></p> <p>18. Primer synthesis for 20 pairs of primers (Length : 25 bps approx)</p> <p>19. Reagents (From reputed company): High fidelity polymerase for long PCR, RT enzyme, Taq polymerase, oligo dT, RNase free water, DNase free water, restriction enzymes six in number.</p>	
12.	<p><b><u>Dissecting Trinocular Microscope With Camera attachment:</u></b></p> <p>Windows software attachment computer system, Captures HD images and HD Video recording option</p> <p>Magnification: 45x and above</p> <p>Field of views : 4cm and above</p> <p>Good working distance : 10cm and above</p> <p>Anti glare coated to clean view and avoid contamination</p> <p>Illumination: Internal LED illumination and external.</p> <p>Intensities can be separately adjustable options.</p>	
13.	<p><b><u>Vertical electrophoresis system :</u></b></p> <p>with blotting unit and power supply unit with 50 -300 volts range.</p> <p>Number of gel cast more than 2</p> <p>Costing time less than 4 hours</p> <p>Gel plate size 10-18 x 10-24 cm</p> <p>With spacers 0.75 mm, 1.0mm, 1.5 mm.</p>	
14.	<p><b><u>Compact Centrifuge :</u></b></p> <p>Micro filters separation,</p> <p>Open lid option in case of power failure</p> <p>Speed : 15000 rpm and above</p> <p>Option : xg or rpm</p> <p>Capacity : 18-32 places of 2 mL rotors, 1.5 ml and 0.5ml adapter rotors</p>	
15	<p><b><u>Incubator –Cum-Orbital Shaker :</u></b></p> <p>Chamber size : 500-600 x 500-600 x 300-500 mm</p> <p>Spring loaded SS Lotus Clamps(removable) for use of shaker,</p> <p>Supplied with adjustable by separating. Lotus Clamps for conical flask.</p> <p>Digital Speed indicator controller</p> <p>Digital temperature controller (4 °c to 80° c)</p>	

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16	<p><b><u>Humidifier :-</u></b>  <b>Range :</b> Humidity range ambient to 95 %  RH with accuracy <math>\pm 5\%</math> RH  Capacity 3 litres  Controller : Microprocessor based RH  Controller  Sensor : Inbuilt  Outer Chamber made up of C.R.C.A. steel</p>	
17	<p><b><u>Mini Tractor :-</u></b>  18-25 HP, four wheel drive  Wet disc type brake, rated speed 1600-2200 RPM,  Capacity CC 900-1300 CC.  Lifting capacity 400-500 kg with the  Accessories (trolley, harrow, cultivator,  Seed drill, rotavator and bund former</p>	
18	<p><b><u>UPS 10 KVA :-</u></b>  10 KVA online UPS system stand alone/rack mountable working on three phase input single phase output, 1GBT based double conversion digitally controlled microprocessor system, with SNMP card and LCD Display with two year warranty.  Battery bank for 120 min backup along with inter connecting cables, cable from UPS to Battery Bank through battery, along with battery stand.</p>	
19	<p><b><u>CCTV Camera (complete system with supply &amp; Installation) :-</u></b></p> <ol style="list-style-type: none"> <li>16 Ch. NVR (for 2 MP Hd Camera)____ 1 Nos.  1080P Play back and Recording/Cloud Base/10/100  Supported outputs : TV Video, VGA, Hdmi (Monitor) and USB2.0.-  3 port  Dual encoding streams supported, Minimum 40 Days Recording</li> <li>2 MP ip Hd IR Bullet / Dome / Outdoor --- approx 10-12 Nos.  Speed Dome IP Camera, 60 FPS, 18 x Zoom, ---- 2 Nos.)</li> <li>CCTV Cameras cabling, laying, Installation with all Peripherals,  * Scope – Approx 1 Km Camera Connectivity (Wired/Wireless)</li> </ol>	
20	<p><b><u>Furniture and Fixture</u></b></p> <ol style="list-style-type: none"> <li>Steel Filling Cabinet 4 drawers  (470 W X 620 D x 1320 H)</li> <li>Lab chairs with revolving and height adjustability</li> <li>Wooden Stool  Size –  1 ft* 1 ft of W*H,  1 ft* 2 ft of W*H  1 ft * 3 ft of W*H</li> <li>Lab working table 10 feet length, 2 feet width, 2.5 feet height with storage compartmental door and above 3 tier rack (between 3 tiers</li> </ol>	

	<p>at 1feet height x 0.5 feet width) with lock          (Table : L-3.2-3.5m * H-0.8-0.9 m * W 0.7-0.75m, Above the table top; Racks in 3-tiers with W-15 cm * L-90cm * H-30cm, Table top: Granite Case, Table Bottom : Upper draw with lock and below cabin compartment having 2 shelves with double door lock, 3 double door cabin (90 cm each) in between 2 leg space (45 cm each)</p>	
	5. Lab Work table : Length 3-4 feet, width 2 feet and height 3 feet and draws both side with lock	
	6. Book shelf with 4 compartment with glass panel and locking	
	7. Lab working stool steel made	
	8. Visitor chairs without arm from reputed company	
	9. Iron Rack 175 x 95 cm with four horizontal positions	
	10. Computer table with drawer and adjustable key board stand Size : 1200 mm W x 600 mm D x 750 mm H	
	11. Three seated Airport Chair (stainless steel), size : 183 cm W x 67 cm D x 77.5 cm H and seat height 40 cm.	
	12. Centre Table : Stainless Steel stand with 12 mm thick black toughed gloss (112 cm W x 60 cm D x 35.1 cm H)	
	13. Side Table :- Stainless steel stand with 12 mm thick black toughed gloss (60 cm W x 60 cm D x 35.1 cm H)	
	14. Stainless steel canteen table : Four seated type, Size : 1180 W x 750 D x 750 H mm	
	15. Lounge Sofa, three seated with stainless steel stands and frame from reputed company, size : 1640 W x 700 D x 785 H mm, Lounge seating with Hexing back system on beam with side frame assembly	

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**Note- Vendors are requested to attach the Technical compliance statement with respect to above specification as per Annexure-III.**

**Note :-** Mark (YES) if specification offered is as per tender or better. If not, specify the specification offered. An item-by-item commentary on the purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provision of the Technical Specifications. (Technical literature / brochures/ manuals should be attached along with this format)

**Please Note:-**

1. Compliance/Deviation statement comparing the specification of the quoted model to the required specifications. This statement should also give the last page of the technical literature where the relevant specification is mentioned.
2. Bids must have supporting documents (technical) literature of copies of relevant pages from the service manual or factory test (data) for the points noted above, failure regarding which may result in rejection of bid.

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