

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving  
PWGSC  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5  
Bid Fax: (905) 615-2095**

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> Plant Growth Chamber	
<b>Solicitation No. - N° de l'invitation</b> 01690-140261/A	<b>Date</b> 2013-12-06
<b>Client Reference No. - N° de référence du client</b> 01690-140261	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-202-6453	
<b>File No. - N° de dossier</b> TOR-3-36178 (202)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-01-20</b>	<b>Time Zone Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Smith, Louise TOR	<b>Buyer Id - Id de l'acheteur</b> tor202
<b>Telephone No. - N° de téléphone</b> (905) 615-2466 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2060
<b>Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:</b> DEPARTMENT OF AGRICULTURE AND AGRI-FOOD 4902 Victoria Ave. N. Vineland Station Ontario L0R2E0 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<b>Delivery Required - Livraison exigée</b> 2013-12-20	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with this bid solicitation.

### **2. Requirement**

The requirement is detailed under Article 2 of the resulting contract clauses.

### **3. Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## **PART 2 - BIDDER INSTRUCTIONS**

### **1. Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) days

### **2. Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

### **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than fifteen (15) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

#### **4. Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### **1. Bid Preparation Instructions**

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid ( 2 hard copies)

Section II: Financial Bid ( 2 hard copies)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and

- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

### **Section I: Technical Bid**

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

#### **1.1 Exchange Rate Fluctuation**

C3011T (2010-01-11)), Exchange Rate Fluctuation

### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **1. Evaluation Procedures**

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **1.1 Technical Evaluation**

##### **1.1.1 Mandatory Technical Criteria**

Bidders must meet all mandatory criteria. Failure to meet any one of the mandatory criteria will result in your bid being declared non-responsive.

- (a) The proposed equipment must meet the mandatory requirements detailed at Annex A, Requirement, and
- (b) At time of bid closing:
  - i) The Bidder must provide the make and model number of the proposed equipment;
  - ii) The Bidder must provide evidence (instrument specification, publications, documented data or discussion points) in sufficient detail to support the fact that their system meets a specification. Simply stating that the criteria is met is not sufficient. The Bidder must provide such evidence for each of the mandatory requirements detailed at Annex A, Requirement, Sections 1.0, and 4.0;

- iii) The Bidder must provide proof of product certification as detailed in Annex A, Requirement, subsection entitled Standards.

Bidders are encouraged to annotate their technical literature to cross reference each of the requirements of Annex A.

## **1.2 Financial Evaluation**

### **1.2.1 Mandatory Financial Criteria**

The Bidder must complete and submit Annex B, Basis of Payment, with their bid at time of bid closing.

### **1.2.2 Evaluation of Price**

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

- 1.2.3 The price used in the evaluation will be the total firm lot price proposed at Annex B, Basis of Payment, Section A for the complete system.

## **2. Basis of Selection**

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and documentation to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with this request will also render the bid non-responsive or will constitute a default under the Contract.

## **1. Mandatory Certifications Required Precedent to Contract Award**

### **1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

### **1.2 Federal Contractors Program for Employment Equity - Bid Certification**

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for

employment equity "FCP Limited Eligibility to Bid" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

## 2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

### 2.1 OEM Certification

- a) Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided.
- b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.
- c) For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware, on all accompanying documentation, on mandatory certification reports, and on any support software.

### 2.2 Software Publisher Certification and Software Publisher Authorization

- a) If the Bidder is the Software Publisher for any of the proprietary software component(s) it bids, Canada requires that the Bidder confirm in writing that it is the Software Publisher. Bidders are requested to use the Software Publisher Certification Form included with the bid solicitation. Although all the contents of the Software Publisher Certification Form are required, using the form itself to provide this information is not mandatory. For bidders who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided.
- b) Any Bidder that is not the Software Publisher of all the proprietary software products or components proposed as part of its bid is required to submit proof of the Software Publisher's authorization, which must be signed by the Software Publisher (not the Bidder). No Contract will be awarded to a Bidder who is not the Software Publisher of all of the proprietary software it proposes to supply to Canada, unless proof of this authorization has been provided to Canada. If the proprietary software proposed by the Bidder originates with multiple Software Publishers, authorization is required from each Software Publisher. Bidders are requested to use the Software Publisher Authorization Form included with the bid solicitation. Although all the

contents of the Software Publisher Authorization Form are required, using the form itself to provide this information is not mandatory. For Bidders/Software Publishers who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided.

- c) In this bid solicitation, "Software Publisher" means the owner of the copyright in any software included in the bid, who has the right to license (and authorize others to license/sub-license) its software products.

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **1. Security Requirement**

There is no security requirement applicable to this Contract.

### **2. Requirement**

The Contractor must provide Reach-in Growth Chamber in accordance with the Requirement of Annex A, and the Contractor's technical bid entitled \_\_\_\_\_, dated \_\_\_\_\_.

### **3. Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

2030 (2013-06-27), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

#### **3.2 Supplemental General Conditions**

4001 (2013-01-28) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

4003 (2010-08-16) Licensed Software, apply to and form part of the Contract.

### **4. Term of Contract**

#### **4.1 Period of the Contract**

The period of the contract is for one year from date of acceptance. *(Dates will be inserted upon award).*

#### **4.2 Delivery Date**

All the deliverables must be received on or before 31 March 2014.



## **5. Authorities**

### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Louise Smith  
Title: Supply Team Leader  
Public Works and Government Services Canada  
Acquisitions Branch  
Ontario Region  
33 City Centre Drive, Ste. 480C  
Mississauga, Ontario  
L2B 2N1

Telephone: 905-615-2466  
Facsimile: 905-615-2060  
E-mail address: louise.smith@pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### **5.2 Technical Authority**

The Technial Authority for the Contract is:

*(To be provided at contract award)*

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### **5.3 Contractor's Representative**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone : \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices as specified in Annex A, Section A for a cost of \$ \_\_\_\_\_ (*amount to be inserted at contract award*). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### 6.2 Single Payment

SACC *Manual* clause H1001C (2008-05-12) Multiple Payments

### 6.3 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

- a. Free on Board (Destination) common carrier Vineland Station, Ontario for shipments from the United States government; or
- b. Delivered Duty Paid (DDP) Vineland Station, Ontario, Incoterms 2000 for shipments from a commercial contractor.

## 7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 8. Certifications

### 8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or

unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## **9. Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

## **10. Priority of Documents**

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4001 (2013-01-28) Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16) Licensed Software;
- (d) the general conditions 2030 (2013-06-37) General Conditions - Higher Complexity - Goods;
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_.

## **11. SACC Manual Clauses**

A9068C (2010-01-11) Government Site Regulations  
B1501C (2006-06-16) Electrical Equipment  
G1005C (2008-05-12) Insurance

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tor202

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## **ANNEX A**

### **REQUIREMENT**

#### **Reach-In Growth Chambre**

The document is attached separately - 2 pages

**ANNEX B****BASIS OF PAYMENT**

Firm all inclusive unit prices, in Canadian funds, FOB Department of Agriculture and Agri-Food, Vineland Station, Ontario, including delivery, set-up and commissioning, warranty and training, Prices include Canadian customs duties and excise taxes as applicable, and Goods and Services Tax/Harmonized Sales Tax excluded.

**Section A. Requirement - Firm**

A.1 For supply, delivery, set-up and commissioning, warranty, and training of Reach-In Growth Chamber all in accordance with the the specifications detailed in Annex A:

Item No.	Description of Item	Unit of Measure	Qty.	Unit Price in Cdn. funds	Extension
1	For supply, delivery, set-up and commissioning, training, 1 year on-site warranty and software support.  Manufacturer:  _____  Make and Model:  _____  _____  .	each	1	\$	\$
				Subtotal:	
				HST @ 13%	
				Total	

**A.2 Delivery Date**

All aspects of the work are to be completed as soon as possible, but in any event, no later than 31 March 2014.

The delivery date offered is \_\_\_\_\_ (as specified by the Bidder) taking into account the above mandatory delivery date.

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## **ANNEX C**

### **Form 1 - OEM Certification**

### **Form 2 - Software Publisher Certification Form**

### **Form 3 - Software Publisher Authorization Form**

#### **Form 1**

#### **OEM Certification Form**

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM \_\_\_\_\_

Signature of authorized signatory of OEM \_\_\_\_\_

Print Name of authorized signatory of OEM \_\_\_\_\_

Print Title of authorized signatory of OEM \_\_\_\_\_

Address for authorized signatory of OEM \_\_\_\_\_

Telephone no. for authorized signatory of OEM \_\_\_\_\_

Fax no. for authorized signatory of OEM \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_

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## **Form 2**

### **Software Publisher Certification Form**

(to be used where the Bidder itself is the Software Publisher)

The Bidder certifies that it is the software publisher of all the following software products and components and that it has all the rights necessary to license them (and any non-proprietary sub-components incorporated into the software) on a royalty-free basis to Canada:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

[bidders should add or remove lines as needed]

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### **Form 3**

#### **Software Publisher Authorization Form**

(to be used where the Bidder is not the Software Publisher)

This confirms that the software publisher identified below has authorized the Bidder named below to license its proprietary software products under any contract resulting from the bid solicitation identified below.

This authorization applies to the following software products:

\_\_\_\_\_  
\_\_\_\_\_

[bidders should add or remove lines as needed]

Name of Software Publisher (SP) \_\_\_\_\_

Signature of authorized signatory of SP \_\_\_\_\_

Print Name of authorized signatory of SP \_\_\_\_\_

Print Title of authorized signatory of SP \_\_\_\_\_

Address for authorized signatory of SP \_\_\_\_\_

Telephone no. for authorized signatory of SP \_\_\_\_\_

Fax no. for authorized signatory of SP \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_



**ANNEX A**  
**REQUIREMENT**  
**REACH-IN GROWTH CHAMBER**

**Evaluation criteria for a reach-in growth chamber:**

I require a growth chamber that is energy efficient and must meet the following criteria:

**Standards:** Must be CSA approved and provide certification to UL and CSA standards or an equivalent NRTL for use in Canada. Must provide proof of product certification. Control system: Must be a robust industrial grade control system, with intuitive touch screen.

**Programming:** Must be able to store more than 15 real-time user entered-programs. Each program must define a single 24- hour period.

**Data Logging and graphing:** Data on temperature, lighting and humidity in the growth chamber must be displayed on the screen.

**Control panel:** The control panel must be a touch tone or equivalent for ease of programming or operating a cycle, made of an easy to clean material. Control panel must be easily accessible to the users.

**Display Window: Shall indicate cycle parameter during cycle.**

**Chamber size- Exterior dimensions:** must not exceed 2600 mmW x 9000mmD x 2000mH, to fit in the existing space at the research station.

**Doors:** must have two reach-in doors with keyed lock.

**Observation window:** Must have an observation window with tight cover and size of the window must not exceed 290 mm x 400mm.

**Temperature:** a. Temperature controls must range from +4°C to +45°C  $\pm$  1.0 °C with lights off; and from +11°C to +45°C  $\pm$  1.0 °C with lights on.

b. programmable with min and max temperature and with connection to alarm

**Alarms:** must have audible alarm based on user defined limits.

**Auxilliary and Central Alarm contacts:** must provide alarm contacts for connection to a building management system

**Security:** Must have password-protected security for users and administrators

**Lighting:** a. lighting control must have a minimum intensity of 800 micromoles/m<sup>2</sup>/s

b. **programmable:** must have minimum of 4 level programming of each light type. Must include balanced spectrum for plant growth with fluorescent (T5 fluorescent) and halogen incandescent light lamps

c. **lightmeter:** must include light meter for display and recording of light out put.

**Refrigeration** : required to bring temperatures down to 5°C

**Humidity control:** require humidity (RH) between 50% to 90% (RH)

**Growth Area:** must not exceed 1.5m<sup>2</sup> (16 ft<sup>2</sup>).

**Growth capacity:** must not exceed 2300 liters

**Floors:** must have perforated floors for air circulation and easy drainage.

**Drain Pan:** must include a drain pan under the entire growth area and must be connected to an external drain tube.

**Ethernet connectivity:** Ethernet connectivity must be delivered with every controller.

**Set- up and commissioning:** Unit must be transported to assembly area and installed, verified and test to demonstrate performance of all controlled parameters to their specified limits.

**In-service training:** Supplier shall provide operating training for operators and engineering personnel. Must provide four hours of instruction on use and maintenance of the growth chamber.

**Manuals:** Two sets of operating manuals and maintenance manuals shall be handed over at the tie of commissioning.