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**SOLICITATION AMENDMENT  
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address  
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**Issuing Office - Bureau de distribution**  
Public Works and Government Services Canada  
Ontario Region  
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Ontario  
L5B 2N5

<b>Title - Sujet</b> Growth Chamber Replacement	
<b>Solicitation No. - N° de l'invitation</b> 01689-180221/A	<b>Amendment No. - N° modif.</b> 006
<b>Client Reference No. - N° de référence du client</b> 01689-180221	<b>Date</b> 2017-09-25
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-008-7344	
<b>File No. - N° de dossier</b> TOR-7-40027 (008)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-10-02</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<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> Leslie, Sandra	<b>Buyer Id - Id de l'acheteur</b> tor008
<b>Telephone No. - N° de téléphone</b> (905) 615-2069 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<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</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation Amendment 006 is being issued to respond to questions received on solicitation No. 01689-180221/A.

QUESTIONS AND ANSWERS:

**Annex E, Technical Evaluation, Table B, Growth Chambers Requirements, Item 7**

**Question 1:** Our chamber type C has this plug: 120V – 1 Phase – 60Hz – 2 wire plus ground 20A. Is this acceptable?

**Response 1:** The electrical service available at site is 60Hz, 120/208 – 3phse – 4wire. It is the contractor's responsibility to ensure chambers provided under this contract can be powered with this service. Any modifications required to achieve this is the contractor's responsibility.

**Annex E, Technical Evaluation, Table B, Chamber Type A, Item 16**

**Question 2:** Define full-height doors. Our doors are typically not the full length of the chamber.

**Response 2:** Height of door allows for the full unobstructed access of plants being put in or taken out of growth area (measured from growth area floor to bottom of light canopy when placed in highest position).

**Annex E, Technical Evaluation, Table B, Chamber Type B, Item 29**

**Question 3:** Define full-height doors. Our doors are typically not the full length of the chamber.

**Response 3:** Height of door allows for the full unobstructed access of plants being put in or taken out of growth area (measured from growth area floor to bottom of light canopy when placed in highest position).

**Annex A, Technical Specifications, Section 30 00 10, 1.5 Lighting, .2 Chamber Type B, Item 2**

**Question 4:** Light canopy must use linear fluorescent and incandescent lamps. Can you clarify that you mean straight, non-bent fluorescent bulbs?

**Response 4:** Yes, linear means straight and non-bent fluorescent bulbs.

**Annex E, Technical Evaluation, Table B, Quality Control Requirements, Item 1 and 2**

**Question 5:** The unit we will provide will be special inspected. It will be inspected in our factory by QPS, an independent inspection company. After their inspection we will be permitted to hook our unit up to power on-site. This inspection will have proof of acceptance via inspection sticker. If further justification or proof is required we will be able to accommodate those requests. Can you please advise if this is acceptable?

**Response 5:** As per the specs, all chambers must be provided with product certification to CSA and/or ULC. Independent third-party certification will not be accepted.

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**Annex A, Technical Specifications, Section 30 00 10, 1.6 Temperature, .2 Chamber Type A, .6 Cooling/Refrigeration System, Item 4 & .3 Chamber Type B, .6 Cooling/Refrigeration System, Item 4**

**Question 6:** "Chamber must have an electromagnetic 3-way proportional valve that smoothly modulates heating and cooling." Can you please confirm that a two-way discharge bypass (Stepper) valve is acceptable? We typically do not run 3-way proportional valves since the stepper valve will offer a higher level of control in these smaller chambers.

**Response 6:** The proposed alternative is acceptable.

**Annex A, Technical Specifications, Section 30 00 10, 1.7 Humidity, .1 Chamber Type A and Type B, Item 1**

**Question 7:** "...and dehumidification using cooling coils and re-heat heaters". We typically do not provide a separate coil for dehumidification. Our dehumidification system lets a precisely controlled volume of chamber air bypass the heat exchanger by means of a proportionally controlled air damper. Using excess capacity in the refrigeration system moisture is removed from the remaining air by cooling and reheating. Can you please confirm that this is acceptable?

**Response 7:** The method described above can be used as long as the overall humidity performance as described in the specs can be obtained. Any modifications required to achieve the overall performance this is the Contractor's responsibility.

**Annex E, Technical Evaluation, Table B, Control System Requirements, Item 61**

**Question 8:** "Each chamber must be equipped with a local LCD digital display of critical sensor measurements (temperature, humidity, PAR lighting) and *control status*." Could you please define control status? Does a reading/confirmation of the specific sensor working count as control status?

**Response 8:** Yes. Control status examples: Power on/off, alarm limit high/low, cooling on/off, heating on/off, measures values such as temperature, humidity, PAR lighting.

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME AND IN FULL EFFECT**