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C1A 4A2

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

All enquiries are to be submitted in writing to the Contracting Authority, Crystal Bysterveldt, either by facsimile or by e-mail at:
crystal.bysterveldt@pwgsc.gc.ca.

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
The Cambridge Building
3 Queen Street/3 rue, Queen
PO Box 1268/CP 1268
Charlottetown
Prince Ed
C1A 4A2

Title - Sujet Greenhouse Expansion, Harrington PE	
Solicitation No. - N° de l'invitation ED001-162184/A	Amendment No. - N° modif. 006
Client Reference No. - N° de référence du client R.072545.001	Date 2016-02-05
GETS Reference No. - N° de référence de SEAG PW-\$PWC-024-3792	
File No. - N° de dossier PWC-5-38187 (024)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-02-11	Time Zone Fuseau horaire Atlantic Standard Time AST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Bysterveldt, Crystal	Buyer Id - Id de l'acheteur pwc024
Telephone No. - N° de téléphone (902) 940-7122 ()	FAX No. - N° de FAX (902) 566-7514
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

THE FOLLOWING CHANGES IN THE TENDER DOCUMENTS ARE EFFECTIVE IMMEDIATELY. THIS ADDENDUM WILL FORM PART OF THE CONTRACT DOCUMENTS.

TENDER CLOSING

Notice is hereby given that the closing date for tenders has been extended from Tuesday, February 09, 2016 to:

Thursday, February 11, 2016 at 2:00pm

CLARIFICATIONS – SPECIFICATION/DRAWINGS

1	<p><u>QUESTION:</u> We would like to have Engineered Air model H series as an equal on the horizontal unit heaters as well as Engineered Air element as an equal on the bare finned tube radiation as shown on drawings GHM-001, GHM-002 and GHM-003 and referenced in Section 15 60 00.</p> <p>Please confirm the capacities, design conditions and features required for these two type of heaters in Section 15 60 00.</p> <p><u>ANSWER:</u> Unit Heater capacities: 33,000 BTU/h Nominal, 28,300 BTU/h Actual at 180F EWT and 60F EAT, 138 sq.ft. EDR, 630 cfm, 1/25HP.</p> <p>Fin tube radiation shown on drawings GHM-001, GHM-002 and GHM-003 is specified in Section 23 13 01, Paragraph 2.1.1.2</p>
2	<p><u>QUESTION:</u> In section 15 90 00 section 3.02.1.1.1 we need to alarms from Greenhouse. We would require the quantities of alarm output they will send us?</p> <p><u>ANSWER:</u> Refer to Specification Section 13 35 13 Appendix 1 – Load/Control Points List, Rows 65 – 68, for fire alarm input, power failure input, alarm output to security and alarm output to building DCS. These are digital I/O and must be coordinated with the issuing and receiving systems.</p>
3	<p><u>QUESTION:</u> The specifications refer to tempered glass in the roof while the drawings all indicate laminated glass, please clarify (Section 13 34 13 item 2.4 .1 Drawing GH2 keynote 6)</p> <p><u>ANSWER:</u> Refer to Specification Section 13 34 13 Paragraph 2.4.1.2, which specifies laminating film for roof glass.</p>
4	<p><u>QUESTION:</u> Please confirm roll formed steel gutters are approved for use in this project (Section 13 34 13 Item 2.2 7)</p> <p><u>ANSWER:</u> Referring to Specification Section 13 34 13</p> <p><u>DELETE:</u> Paragraph 2.2.7 “Sheet steel: pre galvanized roll formed gutters to ASTM A1011/A1011M-12b”.</p>

	Gutters to be as specified in Specification Section 13 34 1, Paragraph 2.1.1.
5	<p><u>QUESTION:</u> Please confirm if the intake louvers in the dog house are pleated screens or flat screens, if pleated how many pleats (Drawing GH14 detail 6).</p> <p><u>ANSWER:</u> Screens for intake louvers in the dog house are specified in Specification Section 23 13 01, Paragraph 2.1.6.</p>
6	<p><u>QUESTION:</u> There are positive pressure fans listed but no specifications for these, please provide specifications for these fans. (Drawing GH3 keynote 15)</p> <p><u>ANSWER:</u></p> <p><u>ADD:</u> to Specification <u>Section 13 34 13</u>, the following <u>new Paragraph 2.17</u>:</p> <p>Positive Pressure Fans</p> <ol style="list-style-type: none"> 1. Positive pressure fans to be supplied and mounted in greenhouse sidewalls, with weather tight flashing and sealants to make a fully weathertight installation. Complete positive pressure fans must not allow insect penetrations. 2. Fans: 300 lps @ 37 Pa sp, all stainless steel or hot dip galvanized construction, direct drive, maximum 800 rpm. Cast aluminum airfoil blade, 120VAC, 1 phase, with slant wall housing. 3. Inlets to be corrosion resistant aluminum construction. 4. Weather louvers: minimum 50% free area, installed with thumb screws for easy removal. 5. Pre screens: 16x18mesh insect screen in frames, installed with quick release tabs. 6. Thrip screen modules: pleated thrip screen in aluminum frames, installed with quick release tabs. Minimum 6:1 area ratio of screen cloth to face area. Screen to be 40um x 45um woven cloth. 7. Motorized dampers, insulated, opposing blade, low leakage, with silicone seals on entire perimeter of each blade, 100mm blades, insulated frame. 8. Damper actuators: 24VAC floating point direct mounted to damper jack shafts. Actuator housing to be NEMA 4. 9. Air inlet frames: aluminum construction of channel with flange to face of fan housing.
7	<p><u>QUESTION:</u> Are there pleated screens in front of the positive pressure fans.</p> <p><u>ANSWER:</u> See above new Paragraph 2.17 to be added to Section 13 34 13.</p>
8	<p><u>QUESTION:</u> There are no details for the actuators for the transfer louvers or positive pressure fans, please provide these.</p> <p><u>ANSWER:</u> See above new Paragraph 2.17 to be added to Section 13 34 13. Same specification for transfer louver actuators.</p>
9	<p><u>QUESTION:</u> Please confirm that EMT conduit is what is specified for use in the greenhouse as opposed to aluminium conduit used previously. (Section 26 05 34 Item 2.1 .1 and 3.1.3)</p> <p><u>ANSWER:</u> : Rigid aluminum conduit should be used for all above slab work in wet locations (defined for this purpose to be greenhouse compartments and corridor below 2134mm AFF. EMT conduit and fittings suitable for damp locations may be used elsewhere.</p>

10	<p><u>QUESTION:</u> Please confirm if the door hardware is to be supplied by the greenhouse manufacturer or by section 08 71 00, this section states supplied by this division while the greenhouse section states provided by 13 34 13 (Section 08 71 00 Item 2.1 2 .1 and items following)</p> <p><u>ANSWER:</u> Refer to Specification Section 13 34 13, Paragraph 2.8.2.</p>
11	<p><u>QUESTION:</u> Please confirm that the type of door hardware is as specified and not as per the existing door hardware.</p> <p><u>ANSWER:</u> Refer to Specification Section 13 34 13, Paragraph 2.8.1.</p>
12	<p><u>QUESTION:</u> Please confirm that the doors are as per specification and not as per existing doors.</p> <p><u>ANSWER:</u> Refer to Specification Section 13 34 13, Paragraph 2.8.2.</p>
13	<p><u>QUESTION:</u> Please confirm that there are no fertilizer injectors to be provided (Drawing GHM4 keynote 2)</p> <p><u>ANSWER:</u> Drawing GHM-04 refers to a fertilizer injector station, which is required. The fertilizer injector cart itself will be OFOI.</p>
14	<p><u>QUESTION:</u> Drawings A3 and A4 indicates two intake louvers in the west elevation of the dog house while drawing GH 03 indicates one, please clarify</p> <p><u>ANSWER:</u> A total of 12 intake louvers, of at least the specified sizes is required.</p>
15	<p><u>QUESTION:</u> Please clarify the number of intake louvers on the south elevation of the dog house while the column spacing on the structural drawings do not allow for this many louvers.</p> <p><u>ANSWER:</u> A total of 12 intake louvers, of at least the specified sizes is required.</p>
16	<p><u>QUESTION:</u> Please clarify if the intake louvers are to be an insulated louver. (Drawing gh14 keynote 22)</p> <p><u>ANSWER:</u> Dampers for intake louvers in the dog house are specified in Specification Section 23 13 01, Paragraph 2.1.6.</p>
17	<p><u>QUESTION:</u> For the low level heating pipe hangers the drawings indicate tear drop hangers back to back, please confirm that this is the intent rather than the proper fin tube supports to allow movement of the fin tube. (Drawing GFHM 3 keynote 16)</p> <p><u>ANSWER:</u> Supports for perimeter fin tube are specified in Specification Section 23 13 01, Paragraphs 2.1.1.2.4, 2.1.1.3 and 2.1.1.5.</p>
18	<p><u>QUESTION:</u> For the non-fin tube in the greenhouse please confirm you want to use red oxide painted steel pipe. (Section 23 13 01 Item 2.1 2)</p> <p><u>ANSWER:</u></p> <p>DELETE: Specification Section 23 13 01, Paragraph 2.1.1.2.2, "Greenhouse supply and returns, loops: Schedule 40 steel pipe, painted with red oxide primer."</p> <p>REPLACE WITH: new Specification Section 23 13 01, Paragraph 2.1.1.2.2, "Greenhouse supply and return loops: Type M copper."</p>

19	<p><u>QUESTION:</u> Please confirm the roller tube for the benches is to be anodized. (Section 13 34 13 Item 2.10.7)</p> <p><u>ANSWER:</u> Yes</p>
20	<p><u>QUESTION:</u> Drawings show horizontal shade flat only however the specs call out slope-flat-slope, which is Correct? (Section 13 34 13 Item 2.9.1 Drawing GH 4)</p> <p><u>ANSWER:</u></p> <p>DELETE: Specification Section 13 34 13, Paragraph 2.9.1 "Each of the greenhouse compartments shall be provided with a slope-flat-slope shading system in the roof area, suspended from stainless steel guide wires."</p> <p>REPLACE WITH: new Specification Section 13 34 13, Paragraph 2.9.1 "Each of the greenhouse compartments shall be provided with a flat shading system in the roof area, suspended from stainless steel guide wires".</p>

Pre-Tender Site Meeting Comments Feb 2, 2016

- With reference Section 07 11 13 – Bituminous Dampproofing, To Item 2.1.1.1.1 **ADD** the following products that are also acceptable: "Mel-Rol LM" and "Hydrolastic 836". [Both are supplied by W.R. Meadows.]
- The base building operating systems for the existing headerhouse and greenhouse were designed with sufficient capacity to serve the 300 m2 extension that is being tendered. Extension to these systems has been outlined in the Tender Documents.
- The Harrington Farm's locked gate will be opened by AAFC between 7 am and 5 pm during work days. The site super, upon award and after security clearance, will be provided a key to access the gate after these hours. Work on-site can occur beyond the hours that the gate is open. AAFC will require 24 hours' notice.
- It is the hope of AAFC that many of the general conditions such as insurance, security etc. will be in-place and will be billable prior to April 1, 2016.
- The existing lower mechanical corridor is a plenum and will have to continue to operate as an independent one; until the work is complete and the old and the new (corridors) are commissioned to act as one plenum.
- The AAFC Harrington Research Farm is a demonstration farm and AAFC takes pride in how the premises are kept. To this end an area will be designated near the greenhouse construct for storage and for trailers. There are to be no construction vehicles beyond these designated areas.
- A chain link security (and delineation) fence will be required as a minimum to surround the greenhouse construct. Should the contractor choose to enclose a larger area that can be considered.

- Type and location of Screening throughout the Greenhouse is specified throughout the tender documents.
- Civil work to the south of the existing buried storm line is to be graded to match in to both existing infrastructure and to existing grades – with no grades exceeding a 4 to 1 slope.
- The mechanical connection to the existing tile field will be made at the north end (inside) of the existing lower corridor at the present location of exit to the tile field. As per Drawings.
- Existing greenhouse structure will remain intact. The new green house will be an independent structural envelope. As per the Drawings.