



### Addendum # 3

**Date:** July 25, 2017

**Project:** "Turnkey project" proposed greenhouse - Chapais Farm

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Bidders must make sure that their bids are based on the latest version of the tender documents published and take into consideration the following amendments and information, including any information provided on amendments or Q&A previously published for this project.

Bidders that do not comply with this requirement will be discarded.

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This addendum adds a cold greenhouse to the project as an option.

Appendix E (Technical Specifications / Plans) is therefore amended in its entirety.  
2 sketches are added (see attachments on achatetvente.gc.ca)

The new cold greenhouse is optional because there is no guarantee that the department will go ahead with this portion of the work.

Appendix C (Bid and Acceptance Form) is also being amended as the department is now requesting two distinct prices: one for the cold greenhouse (optional) and one for the greenhouse.

Finally, Appendix B (Special Instructions to Bidders) is also amended as the budgetary ceiling remains, but it will now apply only to the firm portion of the project (greenhouse) and not to the overall works.

#### 4. APPENDIX B Special Instructions – Budget Ceiling

Replace:

"In appendix C (Bid and Acceptance Form), the firm all-inclusive cost of the bid **must not exceed \$340,000.00 CAD**, excluding applicable taxes.

Any bids exceeding this value will be deemed non-compliant and given no further consideration."

By:

In appendix C (Bid and Acceptance Form), the lump sum of the firm portion of the project (greenhouse) **must not exceed \$340,000.00 CAD**, excluding applicable taxes.

Any bids including with price for the greenhouse that exceeds this value will be deemed non-compliant and given no further consideration.

#### 5. APPENDIX C Bid and Acceptance Form

Replace: Appendix C – Bid and Acceptance Form

By: Bid and Acceptance Form V.2 (see attachment on buyandsell.gc.ca)

#### 6. APPENDIX C Technical Specifications and Plans

##### Section 1.1 Objectives

The request for proposal defines the outcomes required by the project, for the design and construction for:

- a) A cold greenhouse



**Section 1.2 Context, Outcomes, Design, technical supervision and start-up, Construction permit and Construction site conditions, Schedule**

**Outcomes:**

The cold greenhouse will be used 8 month / year (September to April) and its function is to maintain inside temperature cold. The indoor temperature will be maintained by positive pressure fans to keep sheltered plants in dormant state. Plants will get isolation blankets according to research projects.

**Section 1.3 Documents available**

Request for proposal Sketches

- 1) Sketch #1 including:
  - Location of projected cold greenhouse according to the shop and electrical line.
  - Existing site elevation and projected elevation for the greenhouse
  - The approximate location of the HQ underground 600 V. services.
- 2) Sketch #2 including:
  - Proposed location of electrical distribution panel
  - Location of electrical outlets and frost proof irrigation water hydrant.
  - Location of man door and overhead door

**Section 1.4 Codes, standards and references**

The same

**Section 1.5 Area and type of space needed**

- a) 58.14 m<sup>2</sup>

**Section 1.6 Construction project location**

- a) The projected greenhouse is located South-West of St-Augustin farm Shop. The greenhouse peak will be in the North-West / South-East orientation.

**Section 1.7 Exteriors works / civil engineering**

The same

**Section 1.8 Architectural components and systems**

**GÉNÉRALITÉ**

Greenhouse will measure:

- 7625 mm wide x 7625 mm deep
- 7320 mm wide will be accepted

**ENVELOPP**

The same

**FLOOR**

The greenhouse floor will be a minimum of 150 mm above exterior perimeter soil, to avoid water infiltration into the greenhouse.

The cold greenhouse will have a floor of crush stone 19 mm net, applied on a geotextile.

There is no concrete floor

**DOORS**



Provide project with have one (1) overhead door 2100 mm x 2100 mm.  
Provide project with one (1) isolated man door.

#### **FIRE PROTECTION**

The same

### **Section 1.9 Structural components and systems**

#### **FONDATION, REQUIRED EXCAVATION AND BACK FILL / COMPACTION**

The greenhouse foundations will be:

A continuous concrete floating grade beams for the four (4) walls, so the construction project is economic. AAFC accept and understand that a small vertical movement is possible with this grade beam.

#### **STRUCTURE**

The greenhouse will be gothic shape, 7625 mm wide. 7320 mm will be accepted.  
The structure will have a clearance of 2700 mm, minimum.

### **Section 1.10 Mechanical components and systems**

#### **GENERALITY**

The same

#### **DRAINAGE**

None

#### **PLUMBING**

Provide one (1) cold water frost free outlets for the greenhouse.

#### **HEATING**

None

#### **VENTILATION**

The cold greenhouse will have a manual lover at the peak to allow natural ventilation when needed.

The cold greenhouse will have a fresh air positive fan (PPF) to evacuate heat contain in the greenhouse. The cold greenhouse temperature must be cold. The cold greenhouse will be equipped with exhaust air louvers to evacuate air entered by the PPF. The PPF controlled thermostat will have the role to keep cold greenhouse clod (free cooling). The PPF will have the capacity of 1 air change per minute.

The PPF and the air exhaust will have bird screen and outside cap to avoid snow / rain intake.

The cold greenhouse will be equipped with recirculation fan (HAF) pour avoid air temperature stratification.

Provide a fan system to pressurize space between the 2 polyethylene films.

### **Section 1.11 Electrical and control components and systems**

#### **GENERALITY**

Provide greenhouse with 100 lux LED type service lights a switch. Fixtures will be water proof.

Provide project for greenhouse with water proof GFCI double 120 V / 15 A. electrical outlets on exterior walls, 2 per wall on 2 walls. Provide project with a total of 4 outlets.

Provide the same greenhouse climate control and alarms system.

#### **EMERGENCY LOADS**

None

### **Section 1.12 GREENHOUSE SPECIAL COMPONENTS AND SYSTEMS.**



**SUPPLEMENT GROUWTH LIGHT**

None

**SHADE SYSTEM**

None

**GROWTH BENCHES**

None

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**All other terms and conditions remain the same**