

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**Room 1650, 635 8th Ave. S.W.**  
**Calgary**  
**Alberta**  
**T2P 3M3**

## 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> Camera/Appareil d'acquisition d'ima	
<b>Solicitation No. - N° de l'invitation</b> 01R11-140237/A	<b>Date</b> 2013-12-06
<b>Client Reference No. - N° de référence du client</b> AAFC	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$CAL-129-6167	
<b>File No. - N° de dossier</b> CAL-3-36092 (129)	<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 2014-01-20</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Mountain Standard Time MST
<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> Izzotti, Diana	<b>Buyer Id - Id de l'acheteur</b> cal129
<b>Telephone No. - N° de téléphone</b> (403) 292-4421 ( )	<b>FAX No. - N° de FAX</b> (403) 292-5786
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF AGRICULTURE AND AGRI-FOOD Pacific Agri-Food Reasearch Centre 4200 Highway 97 Summerland British Columbia VOH 1Z0 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/Travaux  
publics et Services gouvernementaux Canada  
Room 1650, 635 8th Ave. S.W.  
Calgary  
Alberta  
T2P 3M3

<b>Delivery Required - Livraison exigée</b> See Herein	<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/ 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 work to be performed is detailed in ANNEX A and 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.

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## 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:** one hundred and twenty (120) days

#### 1.1 SACC Manual Clauses

Equivalent Products (2006-06-16) B3000T

### 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 ten (10) 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 Alberta.

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 ( 1 hard copies)

Section III: Certifications ( 1 hard copies)

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>). 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 (2013-11-06), Exchange Rate Fluctuation

**Section III: Certifications**

Bidders must submit the certifications required under Part 5.

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**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**

Refer to Mandatory Performance Specifications outlined in **ANNEX A - REQUIREMENT**

**1.2 Financial Evaluation**

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

**2. Basis of Selection**

- |            |   |              |        |
|------------|---|--------------|--------|
| <b>2.1</b> | Basis of Selection - Mandatory Technical Criteria | (2010-08-16) | A0031T |
|            | Basis of Selection                                | (2007-05-25) | A0069T |
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**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.

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## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement applicable to this Contract.

### 2. Requirement

The Contractor must provide the items detailed under the Requirement at Annex A.

### 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

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### 3.2 Supplemental General Conditions

4011 Goods - Medium Complexity (2012-07-16) apply to and form part of the Contract.

### 4. Term of Contract

#### 4.1 Delivery Date

All the deliverables must be received on or before March 28th 2014.

### 5. Authorities

#### 5.1 Contracting Authority

The Contracting Authority is:

Name: Diana Izzotti  
 Title: Supply Officer  
 Directorate: Public Works and Government Services Canada  
Acquisitions Branch  
 Address: 1650, 635 - 8 Ave SW, Calgary, AB T2P 3M3  
 Telephone: 403 -292- 4421  
 Fax: 403 - 292- 5786  
 E-mail address: diana.izzotti@pwgsc-tpsgc.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 Project Authority

The Project Authority for the Contract is: identified in the resulting contract.

The Project Authority 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 Project Authority, however the Project 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 (To be completed by bidder)

Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Organization: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 \_\_\_\_\_

Telephone : \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
 E-mail address: \_\_\_\_\_  
 PBN: \_\_\_\_\_

## 7. Payment

Single Payment (2008-05-12) H1000C

### 7.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price as specified in Annex B Basis of Payment for a total cost of \$\_\_\_\_\_ (amount to be inserted at contract award). Customs duties are included and applicable taxes are extra.

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.

### 7.2 SACC Manual Clauses

Foreign Nationals (Canadian Contractor) (2006-06-16) A2000C  
 T1204 - Direct Request by Customer Department (2007-11-30) A9117C

## 8. 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.

## 9. Certifications

### 9.1 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.

## 10. Applicable Laws

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

## 11. 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 4011 (2012-07-16) Goods - medium complexity
- (c) the general conditions 2010A (2013-04-25), General Conditions - Goods (Medium Complexity)
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_

## 12. SACC Manual Clauses

Electrical Equipment (2006-06-16) B1501C

Excess Goods (2006-06-16) B7500C

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## **ANNEX A REQUIREMENT**

Public Works and Government Services on behalf of the client; Agriculture and Agri-Food Canada located in Summerland, British Columbia, has a requirement to purchase a system for the acquisition of digital images.

The system includes a Scientific grade model 832 Orius SC1000 charge coupled device (CCD) Camera, (or approved equivalent\*) for a Transmission Electron Microscope (TEM), complete with a Peltier cooling system, Fibre Optic Coupling, software, delivery, installation and training (for 1 - 2 people) as per Annex B - Basis of Payment.

A) The CCD camera will be coupled to an existing JEOL 100CX Transmission Electron Microscope (TEM) and will allow rapid acquisition of high quality images. The CCD camera shall be mounted in the side or bottom port of the TEM using no more than one port. If side mounted it must be pneumatically retractable and have a sensor that allows for automatic retraction of the camera head to isolate the camera whenever the microscope camera chamber is about to be vented or loses vacuum.

B) A Peltier cooling system shall be supplied as a standard feature. The Peltier cooling system is needed to reduce the CCD temperature so that the dark current is minimized to improve the background noise in the image.

The water cooling system shall be provided by means of a self contained chiller supplied with the camera, or by attachment to the chilled water currently supplied to the electron microscope. If the supplier needs to connect to the electron microscope supply, then all the necessary connections will be provided by the supplier at the time of installation. Air-cooled electronics and/or electric fans shall not be accepted.

C) The CCD shall be fiber-optically coupled to the phosphor scintillator for high stability of the gain correction reference also to maximize the efficiency of light collection from the scintillator and to provide a perfectly flat field of view all the way to edges of the image. The scintillator shall have a high resolution phosphor coating.

Less efficient methods of optical coupling shall not be accepted. In particular, lens coupling (which suffers from curvature of field and vignetting).

Image acquisition shall be a minimum of 14-bits, with sub-area-readout, and have x2, x3, x4 binning supported for faster image acquisition during focusing.

D) Software shall be provided for image acquisition and processing including real time shading corrections. In addition, image processing software is essential in order to perform the final alignment of the electron microscope. For both of these purposes this image processing software should have the capability of performing Fast-Fourier Transforms (FFTs) of the recorded images.

E) Air, water, and electronic interface hardware shall be included as standard. That is, hardware for connecting the pneumatic insertion and extraction of the detector, water-cooling of electronics, and any mechanical interfacing needed for proper CCD operation.

F) The system must be CSA approved and meet local electrical codes.

G) The TEM image acquisition camera will be delivered and installed at the Pacific Agri-Food Research Centre in Summerland, BC, and it will be used to support several research programs.

H) Training will take place as soon as possible after installation, but definitely within five (5) working days of installation. The trainer will be escorted on site at all times.

Suppliers must indicate their ability to meet all the mandatory requirements in the table following. An incomplete table may be deemed non-compliant.

**System requirements: (Minimum Mandatories):**

#	Mandatory requirement	Supplier to indicate ability to meet mandatory requirement at time of bid:
1	Scientific grade model 832 Orius SC1000 CCD (charge coupled device) Camera - or approved equivalent* - meeting all the mandatory requirements specified in 'Annex A - Requirement'. *If equivalent offered, suppliers must provide a brochure detailing capabilities for client's approval.	Indicate name/model of CCD offered;
2	Peltier cooling system (no substitute)	
3	Fibre Optic Coupling; as detailed above in 'Requirement': item C.	
4	14 bit minimum Image Acquisition with x2, x3, x4 binning supported	
5	Image acquisition shall be accomplished using IEEE FireWire technology	
6	Must be able to achieve a minimum of 4000 pixels in the horizontal direction and a minimum of 2600 pixels in the vertical direction with a physical pixel size (not effective size) of 9um x 9um.	
7	Software and hardware provided are compatible with Windows 7 bit operating systems.	
8	Image processing software capable of performing Fast-Fourier Transforms (FFT's) of the recorded images.	
9	The system is CSA approved and meets local electrical codes.	
10	Installation and on-site training will be provided as per Requirement; item H.	Training will take place within _____ days of installation

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## **ANNEX B BASIS OF PAYMENT**

Suppliers submitting a bid must provide each item on the Basis of Payment list.

An amount must be entered for each item on the list.

If there is no charge for an item please indicate 'zero' (0).

Customs duties are extra (if applicable) and GST/HST are not included in the prices herein.

- |    |   |          |
|----|---|----------|
| 1) | A scientific grade model charge coupled device (CCD) Camera;<br>model 832 Orius SC1000 (or approved equivalent) | \$ _____ |
| 2) | Peltier cooling system,   | \$ _____ |
| 3) | Fibre Optic Coupling as detailed in 'Annex A - Requirement'   | \$ _____ |
| 4) | Windows 7 or XP 32 bit compatible software  | \$ _____ |
| 5) | Delivery  | \$ _____ |
| 6) | Installation and training   | \$ _____ |

**Total \$ \_\_\_\_\_(GST/HST not included)**