

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

**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**  
**11 Laurier St./ 11 rue, Laurier**  
**Place du Portage, Phase III**  
**Core 0A1 / Noyau 0A1**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

**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> OZONE TEST CHAMBER COMPLETE		
<b>Solicitation No. - N° de l'invitation</b> W8476-123323/B	<b>Date</b> 2012-06-13	
<b>Client Reference No. - N° de référence du client</b> W8476-123323		
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PV-940-60673		
<b>File No. - N° de dossier</b> pv940.W8476-123323	<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 2012-07-03</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> Hooper, Marlyn		<b>Buyer Id - Id de l'acheteur</b> pv940
<b>Telephone No. - N° de téléphone</b> (819) 956-2702 ( )		<b>FAX No. - N° de FAX</b> (819) 956-3814
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> 2689 QETE GATINEAU R. PAZUR QETE 45 SACRE-CŒUR BLVD ROOM F-1113 GATINEAU QC K1A 0K2		

**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**

Scientific, Medical and Photographic Division / Division de  
l'équipement scientifique, des produits photographiques et  
pharmaceutiques  
11 Laurier St./ 11 rue, Laurier  
6B1, Place du Portage  
Gatineau, Québec K1A 0S5

<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>

**THIS CANCEL AND SUPERSEDES THE PREVIOUS REQUEST FOR PROPOSAL (RFP) W8476-123323/A DATED OCTOBER 20, 2011 WHICH WAS DUE AT 2:00 PM ON NOVEMBER 30, 2011.**

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Solicitation No. - N° de l'invitation

W8476-123323/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

pv940

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

W8476-123323

pv940W8476-123323

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**List of Annexes:**

Annex A Requirement / Basis of Payment

Annex B Mandatory Specifications

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

The requirement is detailed under "Annex A".

### **3. Debriefings**

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided 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 (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) 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 (2011-05-16) 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

Subsection 12 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, entitled Rejection of Bid is amended as follows:

Replace subsection 1. (a) and (b) with the following:

1.       Canada may reject a bid where any of the following circumstances is present:

- (a) the Bidder is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which renders the Bidder ineligible to bid on the requirement;
- (b) an employee, or subcontractor included as part of the bid, is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which would render that employee or subcontractor ineligible to bid on the requirement, or the portion of the requirement the employee or subcontractor is to perform;

#### 1.1 SACC Manual Clauses

B1000T

Condition of Material

2007-11-30

## 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.

## 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 the province of Ontario, Canada.

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.

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## 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 (two (2) copies)  
Section II: Financial Bid (one (1) copy)  
Section III: Certifications (one (1) 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>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or 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.

#### 1.1 Section I: Technical Bid

The following applies to the Requirement and bidders must provide the following information in the bid where applicable:

##### 1.1.1 Installation

On-site installation, specification testing of all system components, accessories and software must be provided and shall be carried out by a qualified service technician.

State your best installation schedule. Installation will be carried out within \_\_\_\_\_ calendar days of delivery and be completed within \_\_\_\_\_ calendar days.

### 1.1.2 Manuals

One complete set of operating, maintenance and troubleshooting manuals and media for complete system as well as a spare parts list in English must be supplied with each system.

### 1.1.3 Training

Two (2) days on-site user training must be provided for up to five (5) users. All costs associated with the on-site training must be included in the price.

On-site training will be completed within \_\_\_\_\_ calendar days of installation. Provide complete details of training e.g. duration, scope, etc.,

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### 1.1.4 Service

Purchase of the system must include: technical support; technical phone support; support via the Internet; and support via a fax-back document system.

Response for service call shall be within 24 hours or less. On-site repair must be initiated within five (5) working days and completed within ten (10) working days.

Also, provide the following with your bid:

- a) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.

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- b) Locations of available replacement parts from consumables to major components.

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- c) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

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- d) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

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**1.1.5 Product(s) Offered**

The Bidder must indicate the make and model number of the products offered (identify specific components which make up the system):

Name of Manufacturer: \_\_\_\_\_

Model/Part Number: \_\_\_\_\_

Literature attached: Yes (\_\_\_\_) No (\_\_\_\_)

**1.1.6 Point of Manufacture/Shipping**

The Bidder must state the point of manufacture/shipping of goods:

Location: \_\_\_\_\_

Postal Code: \_\_\_\_\_

**1.1.7 Delivery**

While delivery is requested by July 18, 2012 the best delivery that could be offered by the Bidder is \_\_\_\_\_.

**1.1.8 Software Upgrades**

The contractor shall provide all software updates and new releases to the purchaser for a period of three (3) years following the acceptance, at no additional cost.

Note: The word "updates" means all enhancements, extensions or other modifications to the software. The word "releases" means enhancements or modifications to the software or new modules or supplementary modules that function in conjunction with the software, that represent the next generation of software, and which the Contractor has decided to make available to its customers usually for an additional charge.

**1.1.9 Contacts**

Bidders are requested to provide the following: Information pertaining to Article 5.3 Contractor Representatives under Part 6, Resulting Contract Clauses.

**1.2 Section II: Financial Bid**

The bidder must quote a firm lot price all inclusive of supply, installation, training and manuals (if applicable), DDP (Gatineau, Quebec), the Goods and Services Tax (GST) and/or the Harmonized Sales Tax (HST) extra, as applicable. Freight charges to destination and all applicable Customs duties and taxes must be included.

**1.2.1 SACC Manual Clauses**

C3011T

Exchange Rate Fluctuation

2010-01-11



### 1.3 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

All proposals submitted shall be completed in full and provide all of the information requested in the Request for Proposal (RFP) package to enable a full and complete evaluation. If the requirement is not addressed in the bidder's proposal, the proposal will be considered incomplete or non-responsive and will be rejected. The onus is on the bidder to provide all the information necessary to ensure a complete and accurate assessment.

Factors for Evaluation

1. PRICING BASIS (MANDATORY): Prices must be firm, DDP Delivered Duty Paid.
2. ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):
  - a) For Items Defined by Specifications:
 

The bidder is requested to cross reference the mandatory technical criteria contained herein to their supporting technical documentation.
  - b) Provision of Supporting Technical Documentation:
 

Supporting technical documentation for the stores offered shall be provided with the bid at time of bid closing.

Technical brochures or technical data MUST be provided to verify compliancy to the technical mandatory specifications.
3. COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)
4. FOR CANADIAN SUPPLIERS ONLY: Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - see herein. (MANDATORY if applicable)

### 1.1.1 Mandatory Technical Criteria

See Annex "B"

## 1.2 Financial Evaluation

The lowest evaluated price will be established using the following criteria:

- a) prices will be evaluated in Canadian Funds including any applicable Taxes and Canadian Customs Duty (if applicable) and excluding the Goods and Services Tax (GST) or Harmonized Sales Tax (HST). For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing.
- b) prices will be evaluated on a DDP Gatineau, Quebec

## 2. Basis of Selection

A0031T

Basis of Selection -  
Mandatory Technical Criteria Only

2010-08-16

## PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### 1. Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

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## 1.1 Federal Contractors Program for Employment Equity - Certification

### 1.1.1 Federal Contractors Program - over \$25,000 and below \$200,000

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, or temporary employees having worked 12 weeks or more in Canada;
- (b) ( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- (d) ( ) has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: \_\_\_\_\_.

Further information on the FCP is available on the HRSDC Web site:

[Http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml](http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml)

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

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

#### **2.1 Requirement**

The Contractor must provide the items detailed under Annex A.

#### **2.2 Installation**

On-site installation, specification testing of all system components, accessories and software must be provided and shall be carried out by a qualified service technician.

Installation will be carried out within \_\_\_\_\_ calendar days of delivery and be completed within \_\_\_\_\_ calendar days.

#### **2.3 Manuals**

One complete set of operating, maintenance and troubleshooting manuals and media for complete system as well as a spare parts list in English must be supplied with each system.

#### **2.4 Training**

Two (2) days on-site user training must be provided for up to five (5) users.

On-site training will be completed within \_\_\_\_\_ calendar days of installation.

#### **2.5 Software Upgrades**

The contractor shall provide all software updates and new releases to the purchaser for a period of three (3) years following the acceptance, at no additional cost.

### **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 (<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>) issued by Public Works and Government Services Canada.

#### **3.1 General Conditions**

2010A (2011-05-16 General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

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Subsection 9 of 2010A (2011-05-16) General Conditions - Goods or Services, is amended as follows:

Delete: Subsection 9 in his entirety.

Insert: " The Work is subject to inspection and acceptance by Canada. Despite prior acceptance of the Work and without restricting any conditions or warranty imposed by law, the Contractor, if requested by the Minister to do so, must replace, repair or correct at its option and its own expense any Work which becomes defective or which fails to conform to the Contract requirements, where applicable. For goods, the on-site warranty period will be twenty-four (24) months after delivery and acceptance or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer. The on-site warranty covers parts, labor and all related expenses. Any Work replaced, repaired or corrected pursuant to this section is subject to all provisions of the contract to the same extent as Work initially performed."

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

##### **4.1 Delivery Date**

All the deliverables must be received on or before \_\_\_\_\_ (to be filled in only at contract award).

#### **5. Authorities**

##### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Marlyn Hooper  
Public Works and Government Services Canada  
Acquisitions Branch  
Commercial Consumer Products Directorate  
11 Laurier Street, 6A2, Phase III  
Place du Portage, Hull, Quebec, K1A 0S5  
Telephone: (819) 956-2702  
Facsimile: (819) 956-3814  
E-mail address: marlyn.hooper@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 (to be filled in only at contract award)

The Technical Authority for the Contract is:

Name: \_\_\_\_\_  
 Telephone: (\_\_\_\_) \_\_\_\_\_  
 Facsimile: (\_\_\_\_) \_\_\_\_\_  
 E-mail address: \_\_\_\_\_

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 DND Procurement Authority (to be filled in only at contract award)

The DND Procurement Authority for the Contract is:

Name: \_\_\_\_\_  
 Telephone: (\_\_\_\_) \_\_\_\_\_  
 Facsimile: (\_\_\_\_) \_\_\_\_\_  
 E-mail address: \_\_\_\_\_

The DND Procurement Authority is responsible for the DND contract management and for the authorization of all work against this contract.

## 5.4 Contractor's Representative (fill in)

The telephone number of the person responsible for:

General enquiries  
 Name: \_\_\_\_\_  
 Telephone No. \_\_\_\_\_  
 Facsimile No. \_\_\_\_\_  
 E-mail address: \_\_\_\_\_

Delivery Follow-up  
 Name: \_\_\_\_\_  
 Telephone No. \_\_\_\_\_  
 Facsimile No. \_\_\_\_\_  
 E-mail address: \_\_\_\_\_

## 6. Payment

### 6.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit prices, as specified Annex A for a cost of \$ \_\_\_\_\_ (to be filled in only at contract award). Customs duties and tax 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 SACC Manual Clauses

H1000C	Single Payment	2008-05-12
H1001C	Multiple Payment	2008-05-12

## 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.
  - (c) one (1) copy must be forwarded to the consignee.

## 8. Certifications

Compliance with the certifications 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 or 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 the province of Ontario, Canada.

**10. Priority of Documents**

If there is a discrepancy between the wordings 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) 2010A (2011-05-16) General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement Basis of Payment;
- (d) Annex B, Mandatory Specifications;
- (e) the Contractor's bid dated \_\_\_\_\_ (insert date of bid).

**11. SACC Manual clause**

B1501C	Electrical Equipment	2006-06-16
A9062C	Site Regulations	2010-01-11
A2000C	Foreign Nationals	2006-06-16
A2001C	Foreign Nationals	2006-06-16

**12. Shipping Instructions - Delivery at Destination**

1. Goods must be consigned to the destination specified in the Contract and delivered:  
  
Delivered Duty Paid (DDP) Gatineau, Quebec Incoterms 2000 for shipments from a commercial contractor.
2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.



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**ANNEX A****REQUIREMENT / BASIS OF PAYMENT**

The Department of National Defence's Quality Engineering Test Establishment has a requirement for the supply, installation and training of one (1) Ozone Tester and Chamber in accordance with the mandatory specifications detailed in Annex A.

<b>Description</b>	<b>Qty</b>	<b>Firm Unit Price</b>
Ozone Tester and Chamber	1	\$
Dynamic Stretching Apparatus and Static Testing Accessories	1	\$
Controller and Operating Software	1	\$

## ANNEX B

### MANDATORY SPECIFICATIONS

#### Ozone Tester and Chamber

All mandatory technical specifications must be clearly referenced to published documentation and provided (hardcopy) to the bid evaluators.

#### ITEM 1: Ozone Tester and Chamber

- 1.0** Ozone generator must be able to provide a concentration of 0 to 999 pphm of ozone with an accuracy of at least  $\pm 3\%$ .

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.1** Air volume replacement rate within the ozone chamber must be between 1 to 8 cubic feet/minute.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.2** Air recirculation velocity over the samples must be no less than 0.6 m/s or 2 ft/s.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.3** Temperature Range of oven must be from 40°C to at least 90°C with an accuracy of  $\pm 1^\circ\text{C}$ .

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.4** The internal volume of the ozone chamber must be no less than 4 ft<sup>3</sup>.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.5** A detection system must be in place to monitor continuously the ozone concentration, temperature, air replacement rate and air recirculation velocity.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.6** Ozone Tester must be able to perform dynamic tensile testing according to ASTM D 1149, Method A: Procedure A1, specifically for 25% elongation at 0.5 Hz frequency.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.7** Ozone Tester must be able to perform static strain testing according to ASTM D 1149, Method B: Procedure B1 for an elongation of 20%.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.8** Ozone Tester must be able to perform static strain testing according to ASTM D 1149, Method B: Procedure B2 (Strained loop specimen)

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 1.9** Ozone tester must use standard North American 110V, 60 Hz plugs for power supply.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

**ITEM 2- Ozone tester must use standard North American 110V, 60 Hz plugs for power supply.**

- 2.0** Dynamic Rubber stretching apparatus for testing up to 12 samples according to ASTM D 1149, Method A: Procedure A1, specifically for 25% elongation at 0.5 Hz frequency.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 2.1** A series of 12 static grips for testing according to ASTM D 1149, Method B: Procedure B1 for an elongation of 20%.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

- 2.2** A series of 12 bent loop devices for according to ASTM D 1149, Method B: Procedure B2

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_  
**Reference in Contractors Proposal:** \_\_\_\_\_

**2.3** The tools required for the normal operation of the ozone tester must be provided.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

**2.4** The tools and small supplies required for the normal maintenance of the ozone tester must be provided (enough for one year supply)

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

**2.5** The tools and reference sample required for the calibration of the ozone tester must be provided

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

### **ITEM 3- Controller and operating software**

**3.0** The ozone tester and chamber must have its own controller (computer), complete with all the required hardware (keyboard, pointer, interface cards, cables, screen, & related).

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

**3.1** The controller must allow the full control of the settings & the operation of the system, the acquisition, storage / retrieval and treatment of experimental data.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

**3.2** The controller must include a fully licensed copy of the most current Microsoft Windows (if required) or related operating software with CD/DVD backup copy allowing reinstallation if required

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

**3.3** All provided proprietary software must be of the most current version and must be capable of being installed, running and being updated offline.

**Met:** Yes \_\_\_\_\_ No \_\_\_\_\_

**Reference in Contractors Proposal:** \_\_\_\_\_

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Buyer ID - Id de l'acheteur

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File No. - N° du dossier

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**3.4** All proprietary software must be provided with a full end-user licence not limited in time and backup CD/DVD disk(s).

**Met:**

**Yes** \_\_\_\_\_

**No** \_\_\_\_\_

**Reference in Contractors Proposal:**

\_\_\_\_\_