

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

**Bid Receiving  
PWGSC  
33 City Centre Drive  
Suite 480C  
Mississauga  
Ontario  
L5B 2N5  
Bid Fax: (905) 615-2095**

**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> GC-MS	
<b>Solicitation No. - N° de l'invitation</b> KM061-141054/A	<b>Date</b> 2014-08-21
<b>Client Reference No. - N° de référence du client</b> KM061-141054	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-016-6656	
<b>File No. - N° de dossier</b> TOR-4-37048 (016)	<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 2014-10-01</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> Yari, Helen	<b>Buyer Id - Id de l'acheteur</b> tor016
<b>Telephone No. - N° de téléphone</b> (905) 615-2081 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2060
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF THE ENVIRONMENT 4905 Dufferin Street Downsview Ontario M3H5T4 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  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<b>Delivery Required - Livraison exigée</b> 2015-03-31	<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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See Attached

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with this bid solicitation.

### **2. Requirement**

The requirement is detailed 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.

### **4. Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Agreement on Internal Trade (AIT).

## **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 (2014-06-26) 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

### **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 dix (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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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 Ontario.

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 copy)

Section III: Certifications (1 hard 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 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**

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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 (2010-01-11), Exchange Rate Fluctuation

## **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**

##### **1.1.1 Mandatory Technical Criteria**

See Annex C - Evaluation Criteria and Basis of Selection

##### **1.1.2 Point Rated Technical Criteria**

See Annex C - Evaluation Criteria and Basis of Selection

#### **1.2 Financial Evaluation**

##### **1.2.1 Mandatory Financial Criteria**

- a) Bidders must submit their financial bid in **Canadian Funds** in accordance with the Basis of Payment
- b) The evaluated price is the Firm Lot Price indicated on Annex B, Basis of Payment.

##### **1.2.2 Evaluation of Price**

SACC Manual Clause A0220T (2013-04-25) Evaluation of Price.

### **2. Basis of Selection**

See Annex C - Evaluation Criteria and Basis of Selection

## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and associated information 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 in carrying out any of its obligations under the Contract, if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, 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 and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

### **1. Certifications Required Precedent to Contract Award**

#### **1.1 Integrity Provisions - Associated Information**

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions 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 Employment and Social Development Canada (ESDC) - 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.

### **2. Additional Certifications Precedent to Contract Award**

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

#### **2.1 OEM Certification**

(a) Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided.

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(b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.

(c) For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

## **2.2 Software Publisher Certification and Software Publisher Authorization**

(a) If the Bidder is the Software Publisher for any of the proprietary software component(s) it bids, Canada requires that the Bidder confirm in writing that it is the Software Publisher. Bidders are requested to use the Software Publisher Certification Form included with the bid solicitation. Although all the contents of the Software Publisher Certification Form are required, using the form itself to provide this information is not mandatory. For bidders who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided.

(b) Any Bidder that is not the Software Publisher of all the proprietary software products or components proposed as part of its bid is required to submit proof of the Software Publisher's authorization, which must be signed by the Software Publisher (not the Bidder). No Contract will be awarded to a Bidder who is not the Software Publisher of all of the proprietary software it proposes to supply to Canada, unless proof of this authorization has been provided to Canada. If the proprietary software proposed by the Bidder originates with multiple Software Publishers, authorization is required from each Software Publisher. Bidders are requested to use the Software Publisher Authorization Form included with the bid solicitation. Although all the contents of the Software Publisher Authorization Form are required, using the form itself to provide this information is not mandatory. For Bidders/Software Publishers who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided.

(c) In this bid solicitation, "Software Publisher" means the owner of the copyright in any software included in the bid, who has the right to license (and authorize others to license/sub-license) its software products.

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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 Gas Chromatograph – Mass Spectrometer System in accordance with the Requirement at Annex “A” and the Contractor's technical bid entitled \_\_\_\_\_, dated \_\_\_\_\_.

### **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 (2014-06-26), General Conditions - Goods (Medium Complexity), will apply to and form part of the Contract.

#### **3.2 Supplemental General Conditions**

4001 (2013-01-28) Hardware Purchase, Lease and Maintenance; and  
4003 (2010-08-16) Licensed Software, will apply to and form part of the Contract.

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

#### **4.1 Delivery Date**

See Annex B, Basis of Payment

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Helen Yari  
Public Works and Government Services Canada  
Acquisitions Branch  
33 City Centre Dr., Suite 480C  
Mississauga, ON L5B 2N5

Telephone : 905-615-2081  
Facsimile: 905-615-2060  
E-mail address: helen.yari@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**

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The Project Authority for the Contract is:

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

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

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

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

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

## 6. Payment

### 6.1 Basis of Payment - Firm Lot Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm lot price, as specified in Annex B, Basis of Payment for a cost of \$\_\_\_\_\_. 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.

### 6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

### 6.3 Single Payment

SACC Manual clause H1001C (2008-05-12) Single Payment

## 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.

**8. Certifications**

**8.1 Compliance**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, 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.

**9. Applicable Laws**

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

**10. 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 4001 (2013-01-28) Hardware Purchase, Lease and Maintenance and 4003 (2010-08-16) Licensed Software;
- (c) the general conditions 2010A (2014-06-26) General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment
- (f) the Contractor's bid dated \_\_\_\_\_.

**11. Insurance**

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

**12. SACC Manual Clauses** B1501C (2012-07-16) Electrical Equipment

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## ANNEX A

### REQUIREMENT

#### Gas Chromatograph – Mass Spectrometer

##### 1. Introduction

The Environment Canada (EC) Organics Analysis Laboratory (OAL) conducts determinations of trace organic pollutants in air samples collected in the Great Lakes Basin and the Arctic. Gas Chromatography-Mass Spectrometry (GC-MS) is the technique of choice for the analysis of polybrominated diphenyl ethers (PBDEs), alternative flame retardants (BFRs), and perfluorooctane sulfonate (PFOS). OAL requires a new instrument with advance technologies in order to detect these analytes at trace levels in ambient air samples. The instrument must meet the following requirements/specifications:

##### 2. Specifications

- a) The mass spectrometer (MS) must have multiple ion source capability, including positive ion electron impact (EI) ionization, and both positive and negative chemical ionization (CI) with dual inlets for CI gases. The MS must use ion sources constructed with a non-coated, inert material. The source must be heated up to 350°C.
- b) The MS must have a mass range up to  $m/z$  1000; a dynamic range of  $10^6$ , an electronic scan rate of at least 10,000 amu/sec, monitor up to 50 ions in 50 groups while in selected ion monitoring (SIM), mass range up to 1,000 amu with unit mass resolution.
- c) The MS must be a quadrupole mass spectrometer, triple axis, with the mass filter consisting of a hyperbolic geometry. The quadrupoles themselves must be made of quartz and heated up to 200°C.
- d) The MS must have electron energy of up to 200eV and an emission current of up to 300  $\mu$ A.
- e) Under EI conditions, the MS must have a signal/noise (S/N) ratio of at least 500:1 for 1  $\mu$ L injection of 1 pg/ $\mu$ L octafluoronaphthalene (OFN); in NCI, the S/N of a 2  $\mu$ L injection of 100 fg/ $\mu$ L OFN must be at least 400:1.
- f) In addition to the MS, the gas chromatograph (GC) must support 2 additional detectors and control up to six heated zones.
- g) The column oven must accommodate 2 columns; the oven operating temperature must have a range of 4°C to 450°C; the oven temperature programming must support up to 15 oven temperature ramps.
- h) The GC must be able to handle either helium or hydrogen as a carrier gas; In case of a gas leak the GC must shut down when using hydrogen as a carrier gas.
- i) The GC must use an electronic pneumatic control (EPC) system and include other energy savings features.
- j) The injector of the GC must have the capability to inject cold, temperature programmable, on column as well as split/splitless modes as well as perform simultaneous injections to at least 2 injection ports.
- k) The injector must be able to handle a Merlin Microseal.

- l) The autosampler must contain a tray holding at least 100 x 2 mL sample vials, with the trays mounted away from the GC oven and the tray must be capable of temperature control (cooling/heating) of the sample vials.
- m) The injector must rinse the inside/outside of the injection needle to minimize sample carryover with up to 10 pre and post injection rinses.
- n) The injector must provide variable injection speed up to 100 milliseconds, variable plunger speed, variable depth of sampling from sample vial and dwell times up to 1 minute.
- o) The injector must handle 1 – 100 µL syringes and inject up to 50 µL.
- p) The autosampler must be a gripper type in order to handle a wide range of vials/caps.
- q) The computer system must consist of computer with hard disk, USB and CD drives for data storage/back-up; high-resolution colour monitor and colour laser printer.
- r) The operating software must be windows based and include the National Institute of Standards and Technology (NIST) mass spectral library.
- s) Instrument interface and control should be via LAN (TCP/IP protocol) to the data system. RS232 or IEEE488 is not acceptable.
- t) The software package must have the capability to reduce the baseline noise and improve the peak shape.
- u) The software must be able to calculate method parameters such as vapour volumes; solvent vent for large volume injections; method translation from one column or carrier gas to a different one; pressure/flow capillary flow technologies.
- v) The GC-MS must come complete with installation, on-site training and at least three processing software licences.
- w) Due to laboratory space limitations, the dimensions of the GC-MS must not exceed 110 cm x 60 cm x 110 cm (width x depth x height).
- x) The GC-MS must have a power requirement of 120 V, 60 Hz.

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## ANNEX B

### BASIS OF PAYMENT

Prices are firm, all inclusive in Canadian funds including Canadian customs duties, excise taxes, and F.O.B destination, including all delivery charges to destination specified.

The total amount of Goods and Services Tax or Harmonized Sales Tax is to be shown separately, if applicable.

Item No.	Description	Quantity	Firm LOT Price
1.	Gas Chromatograph – Mass Spectrometer system in accordance with Annex A.  Make: _____  Model number: _____	1 LOT	\$ _____
	GST / HST EXTRA (AS APPLICABLE)		\$ _____

Delivery: While delivery is requested within 4 weeks of contract award, the best delivery that could be offered is \_\_\_\_\_ .

## ANNEX C

### EVALUATION CRITERIA AND BASIS OF SELECTION

#### 1. Mandatory Technical Evaluation Criteria

M1 - The Bidders must comply with Annex A Requirement for Gas Chromatograph – Mass Spectrometer. Bidder must submit with their bid supporting technical documents such as: literature, brochures or specifications for their proposed equipment, which clearly demonstrates that their proposed equipment meets the specifications listed in Annex A. If any of the Equipment Specification is not identified in the Bidder's existing technical documents, the Bidder must address separately, in their proposal, how it meets that particular Equipment Specification.

Mandatory Specification (from Annex A)	Identify where the supporting documentation is located in the bid package (page number(s))
a) The mass spectrometer (MS) must have multiple ion source capability, including positive ion electron impact (EI) ionization, and both positive and negative chemical ionization (CI) with dual inlets for CI gases. The MS must use ion sources constructed with a non-coated, inert material. The source must be heated up to 350°C.	
b) The MS must have a mass range up to m/z 1000; a dynamic range of 10 <sup>6</sup> , an electronic scan rate of at least 10,000 amu/sec, monitor up to 50 ions in 50 groups while in selected ion monitoring (SIM), mass range up to 1,000 amu with unit mass resolution.	
c) The MS must be a quadrupole mass spectrometer, triple axis, with the mass filter consisting of a hyperbolic geometry. The quadrupoles themselves must be made of quartz and heated up to 200°C.	
d) The MS must have an electron energy of up to 200eV and an emission current of up to 300 µA.	
e) Under EI conditions, the MS must have a signal/noise (S/N) ratio of at least 500:1 for 1 µL injection of 1 pg/µL octafluoronaphthalene (OFN); in NCI, the S/N of a 2 µL injection of 100 fg/µL OFN must be at least 400:1.	
f) In addition to the MS, the gas chromatograph (GC) must support 2 additional detectors and control up to six heated zones.	
g) The column oven must accommodate 2 columns; The oven operating temperature must have a range of 4°C to 450°C; The oven temperature programming must support up to 15 oven temperature ramps.	
h) The GC must be able to handle either helium or hydrogen as a carrier gas; In case of a gas leak the GC must shut down when using hydrogen as a carrier gas.	
i) The GC must use an electronic pneumatic control (EPC) system and include other energy savings features.	
j) The injector of the GC must have the capability to inject cold, temperature programmable, on column as well as split/splitless modes as well as perform simultaneous injections to at least 2 injection ports.	
k) The injector must be able to handle a Merlin Microseal.	
l) The autosampler must contain a tray holding at least 100 x 2 mL	

sample vials, with the trays mounted away from the GC oven and the tray must be capable of temperature control (cooling/heating) of the sample vials.	
m) The injector must rinse the inside/outside of the injection needle to minimize sample carryover with up to 10 pre and post injection rinses.	
n) The injector must provide variable injection speed up to 100 milliseconds, variable plunger speed, variable depth of sampling from sample vial and dwell times up to 1 minute.	
o) The injector must handle 1 – 100 µL syringes and inject up to 50 µL.	
p) The autosampler must be a gripper type in order to handle a wide range of vials/caps.	
q) The computer system must consist of computer with hard disk, USB and CD drives for data storage/back-up; high-resolution colour monitor and colour laser printer.	
r) The operating software must be windows based and include the National Institute of Standards and Technology (NIST) mass spectral library.	
s) Instrument interface and control should be via LAN (TCP/IP protocol) to the data system. RS232 or IEEE488 is not acceptable.	
t) The software package must have the capability to reduce the baseline noise and improve the peak shape.	
u) The software must be able to calculate method parameters such as vapour volumes; solvent vent for large volume injections; method translation from one column or carrier gas to a different one; pressure/flow capillary flow technologies.	
v) The GC-MS must come complete with installation, on-site training and at least three processing software licences.	
w) Due to laboratory space limitations, the dimensions of the GC-MS must not exceed 110 cm x 60 cm x 110 cm (width x depth x height).	
x) The GC-MS must have a power requirement of 120 V, 60 Hz.	

M2. Bidder must demonstrate that the proposed instrument is currently commercially available and that it was previously or is currently being used for analysis of environmental samples at trace levels in a governmental or university capacity. Bidder must demonstrate this by providing contact information of three (3) or more user(s) of this proposed instrument. The contact information must include:

Client name;  
Contact name;  
Telephone number; and  
E-mail address.

Environment Canada reserves the right to contact the client to validate information.

## 2. Basis of Selection

### 2.1 Basis of Selection - Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

Solicitation No. - N° de l'invitation  
KM061-141054/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
tor016

Client Ref. No. - N° de réf. du client  
KM061-141054

File No. - N° du dossier  
TOR-4-37048

CCC No./N° CCC - FMS No/ N° VME

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TOR-4-37048

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**ANNEX D**

**Bidder Certification Forms**

**Form 1**

**OEM Certification Form**

(to be used where the Bidder is not the OEM)

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM \_\_\_\_\_

Signature of authorized signatory of OEM \_\_\_\_\_

Print Name of authorized signatory of OEM \_\_\_\_\_

Print Title of authorized signatory of OEM \_\_\_\_\_

Address for authorized signatory of OEM \_\_\_\_\_

Telephone no. for authorized signatory of OEM \_\_\_\_\_

Fax no. for authorized signatory of OEM \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_

Solicitation No. - N° de l'invitation  
KM061-141054/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
tor016

Client Ref. No. - N° de réf. du client  
KM061-141054

File No. - N° du dossier  
TOR-4-37048

CCC No./N° CCC - FMS No/ N° VME

**Form 2**

**Form 2**

**Software Publisher Certification Form**

(to be used where the Bidder itself is the Software Publisher)

The Bidder certifies that is the software publisher of all the following software products and components and that it has all the rights necessary to license them (and any non-proprietary sub-components incorporated into the software) on a royalty-free basis to Canada:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*[bidders should add or remove lines as needed]*

**Form 3**

**Software Publisher Authorization Form**

(to be used where the Bidder is not the Software Publisher)

This confirms that the software publisher identified below has authorized the Bidder named below to license its proprietary software products under any contract resulting from the bid solicitation identified below.

This authorization applies to the following software products:

\_\_\_\_\_  
\_\_\_\_\_

*[bidders should add or remove lines as needed]*

Name of Software Publisher (SP) \_\_\_\_\_

Signature of authorized signatory of SP \_\_\_\_\_

Print Name of authorized signatory of SP \_\_\_\_\_

Print Title of authorized signatory of SP \_\_\_\_\_

Address for authorized signatory of SP \_\_\_\_\_

Telephone no. for authorized signatory of SP \_\_\_\_\_

Fax no. for authorized signatory of SP \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_