



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

## 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

### 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 - Pacific  
Region

219 - 800 Burrard Street

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

<b>Title - Sujet</b> Gas Chromatograph Mass Spectrometer	
<b>Solicitation No. - N° de l'invitation</b> K8F10-180306/A	<b>Date</b> 2017-09-14
<b>Client Reference No. - N° de référence du client</b> K8F10-180306	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$VAN-582-8174	
<b>File No. - N° de dossier</b> VAN-7-40212 (582)	<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 2017-10-26</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Daylight Saving Time PDT
<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> Lee, Hilda	<b>Buyer Id - Id de l'acheteur</b> van582
<b>Telephone No. - N° de téléphone</b> (604) 764-6053 ( )	<b>FAX No. - N° de FAX</b> (604) 775-7526
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> ENVIRONMENT AND CLIMATE CHANGE CANADA PACIFIC ENV.SCIENCE CENTER 2645 DOLLARTON HWY N.VANCOUVER British Columbia V7H1V2 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

<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/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**REQUEST FOR PROPOSAL**  
**GAS CHROMATOGRAPH MASS SPECTROMETER SYSTEM**

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van582  
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## **PART 1- GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with the requirement.

### **1.2 Statement of Work**

Public Works and Government Services Canada, on behalf of Environment and Climate Change Canada (PYLET) at 2645 Dollarton Highway, North Vancouver, British Columbia has a requirement to purchase one Gas Chromatograph Tandem Mass Spectrometer (GC-MS/MS) System as detailed herein Annex A and Annex B.

### **1.3 Debriefings**

After contract award, 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.

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 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) (<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(s).

The **2003, (2016-04-04)** 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 twenty (120) days

### **2.2 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 transmission by facsimile or by electronic mail to PWGSC will not be accepted.**

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than **fourteen (14)** 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 RFP 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 bidders 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.

## 2.4 Applicable Laws

Any resulting contracts with task authorization must be interpreted and governed, and the relations between the parties determined, by the laws in force in **British Columbia**.

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 - BIDDER PREPARATION INSTRUCTIONS**

### 3.1 Bid Preparation Instructions

Canada requests the Bidders must provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)  
Section II: Financial Bid (2 hard copies)  
Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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**

### **3.1.1 Technical Bid**

In their technical bid, bidders should explain and demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

**The detailed point rated requirements for this bid solicitation are laid out in Annex E, Evaluation Criteria and Basis of Selection.**

## **Section II: Financial Bid**

### **3.1.2 Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B. The total amount of Applicable Taxes must be shown separately, if applicable.

**Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.**

### **3.1.3 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex C Electronic Payment Instruments, to identify which ones are accepted.

If Annex C Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

### **3.1.4 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**

### **4.1. 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.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. All elements of the bid solicitation that are mandatory requirements are identified specifically with the words ``must`` or ``mandatory``. Bids that do not comply with each and every mandatory requirement will be considered non-responsive and be disqualified.

Claims in a bid that a future upgrade or release of any of product included in the bid will meet the mandatory requirements of the bid solicitation, where the upgrade or release is not available at bid closing, will not be considered.

The mandatory requirement are described in Annex A and Annex E.

##### **4.1.1.2 Point Rated Technical Criteria**

Each bid will be rated by assigning a score to the rated requirements, which are identified in the bid solicitation by the word ``rated`` or by reference to score. Bidders who fail to submit complete bids with all the information requested by this solicitation will be rated accordingly. The rate requirements are described in Annex E.

The point rated technical evaluation is included in Annex A and Annex E.

#### **4.1.2 Financial Evaluation**

The financial evaluation will be conducted by calculating the Total Bid Price using the Pricing Tables completed by the bidders.

Total Bid Price = Initial Order + Optional Service

**Optional Goods – Value Added Items will not be included in the financial evaluation**

##### **4.1.2.1 Evaluation of Price**

A0222T (2014-06-26), Evaluation of Price

### **4.2 Basis of Selection**

#### **4.2.1 Basis of Selection - Highest Combined Rating of Technical Merit and Price**

**4.2.1.1** To be declared responsive, a bid must:

- (a) Comply with all the requirements of the id solicitation; and
- (b) Meet all mandatory criteria; and
- (c) Obtain the required minimum points specified for the technical evaluation

The rating is performed on a scale of 400 points. Minimum points of 280 (70%) of the total points must be achieved.

4.2.1.2 Bid not meeting (a) or (b) or (c) will be declared non-responsive.

4.2.1.3 The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 80% for the technical merit and 20% for the price.

4.2.1.4 To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained ÷ maximum number of points available multiplied by the ratio of 80%.

4.2.1.5 To establish the pricing score, each responsive bid will be prorated against the lowest evaluation price and the ratio of 20%.

4.2.1.6 For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

4.2.1.7 Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract, provided that the total evaluated price (Initial Order) does not exceed the budget available for this requirement.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 80/20 ratio of technical merit and price, respectively. The total available points equals 400 and the lowest evaluated price is \$45,000 (45).

#### **Basis of Selection – Highest Combined Rating Technical Merit (80%) and Price (20%)**

		<b>Bidder 1</b>	<b>Bidder 2</b>	<b>Bidder 3</b>
Overall Technical Score		360/400	320/400	345/400
Bid Evaluated Price		55,000	50,000	45,000
Calculations	Technical Merit Score	$360/400 \times 80 = 72$	$320/400 \times 80 = 64$	$345/400 \times 80 = 69$
	Pricing Score	$45/55 \times 20 = 16.36$	$45/50 \times 20 = 18$	$45/45 \times 20 = 20.00$
Combined Rating		88.36	82.00	89.00
Overall Rating		2nd	3rd	1st

Therefore, the contract will be awarded to Bidder 3.

#### **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, 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 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 will render the bid non-responsive or constitute a default under the Contract.

## **5.1 Certifications Required with the Bid**

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

### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

## **5.2 Certifications Precedent to Contract Award and Additional Information**

The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information 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 provide the certifications or the additional information listed below within the time frame specified will render the bid non-responsive.

### **5.2.1 Integrity Provisions – Required Documentation**

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

### **5.2.2 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed) website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969#afed](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed)).

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.

### **5.2.3 OEM Certification**

As part of the evaluation, Canada requires OEM Certifications for the production printer being bid. If the Bidder is itself the OEM, it must provide the certification entitled "OEM Certification – Bidder is the OEM of Products Offered". If the Bidder is not the OEM, it must provide the certification entitled "OEM Certification

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van582  
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– Bidder is not the OEM of Products Bid”. If the Bidder is bidding products from multiple OEMs, a separate certification must be provided in respect of each OEM.

<b>OEM Certification – Bidder is the OEM of Products Bid</b>	
On behalf of the Bidder, I certify that the Bidder is itself the OEM of the products being offered in response to the Solicitation identified below.	
Solicitation Number	K8F11-180306/A
Name of Bidder	
Signature of Bidder's Authorized Representative	
Name of Bidder's Authorized Representative	
Date Signed	
If this Certification is limited to specific products or specific services, please provide details	

**Note for Joint Venture Bidder:** Where one of the members of the joint venture is the OEM, then this certification is required to be signed by that member of the joint venture.

<b>OEM Certification – Bidder is not the OEM of Products Bid</b>	
The OEM identified below authorizes the Bidder named below to provide its products and provide warranty service in relation to those products under the Contract issued as a result of the Solicitation identified below.	
Name of OEM	
Address of OEM	
Name of OEM's Authorized Representative	
Title of OEM's Authorized Representative	
Telephone Number of OEM's Authorized Representative	
Fax Number of OEM's Authorized Representative	
Signature of OEM's Authorized Representative	
Date Signed	
Solicitation Number	K8F11-180306/A
Name of Bidder	
If this Certification is limited to specific products or specific services, please provide details	

**Note for Joint Venture Bidders:** Certifications made by the OEM must name (as the Bidder) ALL members of the joint venture Bidder that will be involved in delivering or servicing that OEM's equipment in the performance of the Work, or the joint venture itself must be named (if the joint venture has been given a name).

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

The following clauses and conditions apply to and form part of any contract resulting from bid solicitation.

### **6.1 Security Requirements**

**6.1.1** There is no security requirement applicable to the Contract.

### **6.2 Statement of Work**

The Contractor must provide the supply, delivery, installation and training of a Gas Chromatograph Tandem Mass Spectrometer (GC-MS/MS) System in accordance with the Requirement at Annex A and Annex B.

The system must be a new unit which must have full manufacturer's warranty. Demo or refurbished units will not be considered.

### **6.3 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.

#### **6.3.1 General Conditions**

2010A (2016-04-04), General Conditions – Goods (Medium Complexity), apply to and form part of the Contract.

#### **6.3.2 Supplemental General Conditions**

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance and Contract

4003 (2010-08-16), Licensed Software, and

4004 (2013-04-25), Maintenance and Support Services for Licensed Software, apply to and form part of the contract.

### **6.4 Term of Contract**

#### **6.4.1 Period of the Contract**

The period of the Contract is from \_\_\_\_\_(installation date of equipment) to \_\_\_\_\_(1 year period) inclusive.

#### **6.4.2 Delivery Date**

All the deliverables must be received on or before \_\_\_\_\_.

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## **6.5 Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Hilda Lee  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch, Pacific Region  
219 - 800 Burrard Street  
Vancouver, BC V6Z 0B9

Telephone: 604-764-6053  
Facsimile: 604-775-7526  
E-mail address: Hilda.Lee@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.

### **6.5.2 Project Authority**

The Project Authority of the Contract is:

**(To be inserted at Contract Award)**

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.

### **6.5.3 Contractor's Representative (to be completed by Bidder)**

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Facsimile: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

E-mail address: \_\_\_\_\_

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## **6.6 Payment**

### **6.6.1 Basis of Payment – Firm Price, Firm Unit Price(s) or Firm Lot Price(s)**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price(s), as specified in Annex "B" for a cost of \$\_\_\_\_\_ (to be filled on 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.

### **6.6.2 Method of Payment**

H1000C (2008-05-12) – Single Payment

#### **6.6.2.1 Advance Payment**

Canada will pay the Contractor in advance for the warranty/maintenance and support service if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada.

Payment in advance does not prevent Canada from exercising any or all potential remedies in relation to this payment or any of the Work, if the Work performed later proves to be unacceptable.

### **6.6.3 Electronic Payment of Invoices – Contract**

The Contractor accepts to be paid using any of the following Electronic Payment Instruments(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (Internationally Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

## **6.7 Invoicing Instructions**

### **6.7.1 Invoicing Instructions**

6.7.1.1 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.

6.7.1.2 Invoices must be distributed as follows:

- (a) The Original copy must be forwarded to the addressee 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.

## **6.8 Certifications and Additional Information**

### **6.8.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## **6.9 Applicable Laws**

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

### **6.10 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) the supplemental general conditions 4001 (2015-04-04) Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16) Licensed Software;
- (d) the supplemental general conditions 4004 (2013-04-25) Maintenance and Support Services for Licensed Software;
- (e) the general conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);
- (f) Annex A, Statement of Work;
- (g) Annex B, Basis of Payment;
- (h) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on \_\_\_\_\_” or “, as amended on \_\_\_\_\_” and insert date(s) of clarification(s) or amendment(s)*)

### **6.11 Insurance**

G1005C (2016-01-28) Insurance - No Specific Requirement

### **6.12 Warranty**

#### **6.12.1 Warranty – Modification – General Conditions 2010A**

Section 09 entitled Warranty of general conditions 2010A is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another locations as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these costs.

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All other provisions of the warranty section remain in effect.

### **6.13 SACC Manual Clauses**

B1501C (2006-06-16), Electrical Equipment  
B7500C (2006-06-16), Excess Goods

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## ANNEX A

### STATEMENT OF WORK

#### Title

The Purchase of Gas Chromatograph Mass Spectrometer System for the Pacific & Yukon Laboratory for Environmental Testing (PYLET)

#### Background

The Pacific & Yukon Laboratory for Environmental Testing (PYLET) located in North Vancouver, BC requires purchase of a Gas Chromatograph Tandem Mass Spectrometer (GC/MS) system for the quantitative and qualitative analyses of a wide variety of trace level environmental semi-volatile and volatile organic compounds (VOCs). This instrument is required to fulfill its mandate for the delivery of several high priority projects, i.e., detection and determination of trace level Polycyclic Aromatic Hydrocarbons (PAHs) and Alkylated Polycyclic Aromatic Hydrocarbons (APAHs), personal care and pharmaceutical products (PPCP) and emergency oil and chemical spills in the environment. PYLET conducts organic chemistry analyses for different clients, including Federal, Provincial, and Municipal Governments. The Organic Section has a need to replace an obsolete instrument that is currently used for voes, PAHs, APAHs, PPCPs qualitative and quantitative analysis. In order to continue providing trace analyses, as well as upgrade capabilities, PYLET requires a GC/MS as a forensic analysis tool for the enforcement of Canadian environmental regulations under the Canadian Environmental Protection Act (CEPA), Fisheries Act (FA) and other related acts/regulations as well as new method development and environmental research projects. Data produced using this instrument may be entered into a court of law for the purposes of prosecution.

This piece of hardware should allow PYLET chemists to analyze trace level of PAHs, APAHs, volatile and semi-volatile organic pollutants, and PPCPs in the environment and conduct fingerprinting search of chemical agents in contaminated environmental samples. The addition of a GC/MS will significantly increase the scope of work and project delivery. A triple quadrupole GC/MS unit will enable PYLET chemists to develop robust analytical methods for the determination of various pollutants in the environment, such as pesticides, sterols, oil additives and biomarkers found in environmental samples to help identify the source of the chemical spills which is currently impossible with instruments in house.

#### Objective

To obtain a GC/MS System for the Pacific & Yukon Laboratory for Environmental Testing (PYLET). The System should be installed on-site and the PYLET Chemistry staff be trained on its usage. The System must come equipped with the appropriate software for trace organic chemical analysis.

#### The Work

A GC/MS System will be purchased and installed in the Chemistry · Section of the PYLET. The Chemistry staff will be trained on instrument use and maintenance. The instrument will come equipped with qualitative and quantitative analysis software that allows detection, interpretation and determination of trace organic chemicals in the environmental samples.

#### Deliverables

The selection will be made based on the tender meeting all mandatory specifications, and scoring the highest number of technical points. Please see Specifications and Score Sheet for details.



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### Acceptance Criteria

The system will be accepted once it is successfully installed, all technical requirements met and proper training provided.

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## **Specifications for the Purchase of a Gas Chromatograph Mass Spectrometer (GC-MS) System**

### **1. General**

Environment and Climate Change Canada (PYLET in North Vancouver, BC) requires applicable vendors to supply and install a Gas Chromatograph Tandem Mass Spectrometer (GC-MS/MS) System at 2645 Dollarton Highway, North Vancouver, for the quantitative and qualitative analysis of a wide variety of trace level environmental volatile and semi-volatile organic compounds (VOCs).

This instrument will be used as a forensic analysis tool for the enforcement of Canadian environmental regulations under the Canadian Environmental Protection Act (CEPA), Fisheries Act (FA) and other related acts/regulations, as well as new method development and environmental research projects. Data produced using this instrument may be entered into a court of law for the purposes of prosecution.

The instrument system must meet all applicable GLP, ISO and CSA standards.

The supplied Gas Chromatograph Tandem Mass Spectrometer (GC-MS/MS) System shall include all parts/equipment/software/data storage capacity necessary for analysis. It is incumbent upon the vendor to recommend a specific hardware configuration for a COMPLETE SYSTEM that is GUARANTEED suitable for the purposes specified. Vendors must submit documentation with their bid package that CLEARLY AND PRECISELY DEMONSTRATE how their system complies with the required specifications.

The Vendor MUST respond in detail to each item in the specifications below. Failure to do so, or failure to reply in sufficient detail, may severely impact on points allocated to the Vendor's system. The provision of company literature only is NOT ACCEPTABLE and may result in the Vendor being deemed non-responsive.

All prices must include DELIVERY to and system INSTALLATION at PYLET, Environment and Climate Change Canada, North Vancouver, BC. The cost(s) of any item(s) omitted from the quote(s) that are required to meet system installation, performance requirements and specifications as described herein, are to be the sole responsibility of the Vendor.

Demo or refurbished units will not be considered.

### **2. Gas Chromatograph Mass Spectrometer**

The Gas Chromatograph Mass Spectrometer (GC-MS) System shall consist of, but not be limited to, the following major components, complete with all software/hardware and interfacing necessary to make a fully integrated system.

- 2.1 Gas Chromatograph (GC)
- 2.2 GC Autosampler
- 2.3 Mass Spectrometer
- 2.4 Operating/Data System Software
- 2.5 Operating/Data System Hardware
- 2.6 System Implementation and Training

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2.7 Service & Support  
2.8 System Performance Specifications  
2.9 Operational and Performance Qualifications

- 2.1.1 The GC Subsystem should be an integrated part of the total system and designated for unattended operation. It must be under complete control of the operating/data computer system. **MANDATORY**
- 2.1.2 All temperature zones (inlets, oven, detectors, and transfer line to mass spectrometer) must be independently controlled via microprocessors under computer control. **MANDATORY**
- 2.1.3 All gas pressures and flows to inlets and detectors electronically controlled via the computer system. **MANDATORY**
- 2.1.4 All consumables such as tubing, fittings, cables required for system installation must be included. **MANDATORY**
- 2.1.5 The GC method should be part of the full method along with Automatic Sampling parameters, Mass Spectrometer settings, Data Processing options and Reporting Options. **MANDATORY**
- 2.1.6 GC mainframe supports up to two additional GC detectors with simultaneous operation with the MS. **MANDATORY**
- 2.1.7 The instrument must be configured with a split/splitless inlet. **MANDATORY**
- 2.1.8 Oven size capable of accommodating two capillary columns. **MANDATORY**
- 2.1.9 The GC line must interface to the mass spectrometer via a direct connection heated transfer line with the effluent of the GC going directly into the MS system. The heating of this connection must be regulated via microprocessor under computer control with temperature variable from ambient to 350 °C. **MANDATORY**
- 2.1.10 The GC chassis to include an oven temperature range of 40 to 450 °C, programs rates of up to 75 °C or faster, minimum 5 temperature programming ramps, 60 minute or longer maximum run time, and built-in diagnostics which can be viewed via the data system. **TECHNICAL**
- 2.1.11 Equipped with a Flame Ionization Detector (FID). **TECHNICAL**
- 2.1.12 Temperature programmable split/splitless inlet with electronic programmable pressure control (0.1 to 50 psi minimum), programmable split ratio control, adjustable septum purge, split/splitless solenoid control. Compatible with 0.10 to 0.53 mm diameter fused silica columns with lengths 15m to 60m. Capable of pressure-programming with gas saver mode to reduce gas consumption without compromising performance. **TECHNICAL**
- 2.1.13 Capable of Cryogenic cooling (Liquid Nitrogen), cool on-column and large volume injections. **TECHNICAL**
- 2.1.14 Capable of liquid Nitrogen cryogenics for sub-ambient temperature operation of the GC column oven. **TECHNICAL**
- 2.1.15 GC oven set point resolution of 1 °C. **TECHNICAL**
- 2.1.16 Oven cool down to 400 °C to 50 °C in 5 min. **TECHNICAL**
- 2.1.17 Equipped with a keypad display for standalone operation. **TECHNICAL**
- 2.1.18 Must be capable of capillary flow technologies to provide backflush, quick column switching to the Mass Spec and column effluent splitting. **TECHNICAL**
- 2.1.19 Equipped with early maintenance feedback (monitors GC and MS resources such as number of injections, operation time, electronic logs, planned maintenance) **TECHNICAL**

## 2.2 GC Autosampler (A/S)

- 2.2.1 Must be compatible with gas chromatograph and instrument control software. **MANDATORY**
- 2.2.2 Autosampler system must provide the capability of simultaneous dual injection of the same sample into the two GC injectors. **MANDATORY**

- 2.2.3 If multiple autosampler options are available, provide complete specifications for each option. **TECHNICAL**
- 2.2.4 Handles 2 ml vials with sample capacity of at least 80 vials. **TECHNICAL**
- 2.2.5 Fully under software control with random access to vials in tray. **TECHNICAL**
- 2.2.6 Priority sample can be inserted into the sequence at any time. **TECHNICAL**
- 2.2.7 Handles standard syringe sizes such as 5 and 10 micro-litres. **TECHNICAL**
- 2.2.8 Variable sampling depth for syringe. **TECHNICAL**
- 2.2.9 Pre- and post-injection rinsing of the syringe with two or more solvents. **TECHNICAL**
- 2.2.10 Incorporates compensation for variable solvent density. **TECHNICAL**
- 2.2.11 Injection volumes including 0.1 to 50 micro-litres. **TECHNICAL**
- 2.2.12 Variable syringe plunger speeds. **TECHNICAL**
- 2.2.13 Capable of being upgraded to enable on-column injection. **TECHNICAL**
- 2.2.14 Adjustable injection delay time and pre- and post-injection dwell times. **TECHNICAL**
- 2.2.15 Capable of multiple injections per vial. **TECHNICAL**

### 2.3 Mass Spectrometer

- 2.3.1 The MS/MS Subsystem should be an integrated part of the total system and designated for unattended operation and dedicated to perform GC/MS/MS. **MANDATORY**
- 2.3.2 The mass spectrometer must be of the tandem quadrupole type. **MANDATORY**
- 2.3.3 Supplied with appropriate source for Electron Impact Ionization (EI) but capable of being upgraded to Positive and Negative Chemical Ionization (PCI and NCI). **MANDATORY**
- 2.3.4 Capable of Scan, Multiple Reaction Monitoring (MRM), and within the same analytical run synchronous Scan and MRM. **MANDATORY**
- 2.3.5 Auto-tuning for each of EI, PCI and NCI. **MANDATORY**
- 2.3.6 Ion source temperature independently heated up to 300 °C. **MANDATORY**
- 2.3.7 Mass spectrums have to be library searchable. **MANDATORY**
- 2.3.8 Turbo-molecular pump, air-cooled, evacuating the source and the analyzer. **MANDATORY**
- 2.3.9 Real-time vacuum pressure monitoring of mass spectrometer. **MANDATORY**
- 2.3.10 Fully compatible with hydrogen carrier gas and safe operation. **MANDATORY**
- 2.3.11 Mass range up to 1000 u. **TECHNICAL**
- 2.3.12 Resolution to be unit mass adjustable by tune from 0.7 to 2.5 Daltons. **TECHNICAL**
- 2.3.13 Minimum mass axis stability of +/- 0.1 u over 24 hours. **TECHNICAL**
- 2.3.14 Scan speed of up to 6500 u/sec. **TECHNICAL**
- 2.3.15 MRM speed to be 500 transitions/sec. **TECHNICAL**
- 2.3.16 Minimum MRM dwell times to be 1 msec. **TECHNICAL**
- 2.3.17 Chemical ionization with digital control of reagent gas from software. **TECHNICAL**
- 2.3.18 Mechanical vacuum pumps (one or more as required). **TECHNICAL**
- 2.3.19 Quadrupole temperature independently heated up to 200 °C. **TECHNICAL**
- 2.3.20 Unique EI source design which may enhance instrument sensitivity, cost reduction, and ruggedness **TECHNICAL**
- 2.3.21 Demonstrate that the instrument is capable of using many types of gases other than Ar and N2 in the collision cell. **TECHNICAL**

### 2.4 Operating/Data Computer System Software

- 2.4.1 Full control of instrumentation operation including data acquisition and processing. **MANDATORY**
- 2.4.2 Multi-tasking and able to acquire and process data in real time. **MANDATORY**
- 2.4.3 Full graphical instrument control window with the ability to display system parameters concurrently in real time. **MANDATORY**
- 2.4.4 Internal diagnostics including error checking, trouble shooting and a complete fault log. **MANDATORY**
- 2.4.5 Various calibration modes including external and internal calibration. **MANDATORY**

- 2.4.6 Multilevel linear and multilevel non-linear calibration capacity. **MANDATORY**
- 2.4.7 Ability to insert samples without stopping and restarting a previously started acquisition sequence. **MANDATORY**
- 2.4.8 Latest NIST MS spectral library included with search capability for qualitative identification. **MANDATORY**
- 2.4.9 Automatic and manual tuning of MS instruments. **MANDATORY**
- 2.4.10 Storage and recall of chromatograms and spectra. **MANDATORY**
- 2.4.11 Capable of exporting data batched to standard data file types (.txt, .csv, .xls, .mdb) that could be used to upload the data to a LIMS for archiving and final reporting. **MANDATORY**
- 2.4.12 Deconvolution software included. **MANDATORY**
- 2.4.13 The PC computer system's operating system should be Microsoft Windows 7 installed to conform to Environment and Climate Change Canada's network security requirements. **TECHNICAL**
- 2.4.14 Fully automated system start-up and shut down. **TECHNICAL**
- 2.4.15 Comprehensive context sensitive help including hypertext links and index. **TECHNICAL**
- 2.4.16 Full data processing and reprocessing capabilities including control or editing of chromatogram integration, compound identification, calibration curves, quantitation and reporting parameters without the need to re-run samples. **TECHNICAL**
- 2.4.17 The system has the ability to process data files with the laboratories existing base of Agilent 5973, Agilent 5975 and Varian 38000 GC/MS instruments without use of 3<sup>rd</sup> party translator. This includes calibration, quantitation methods, and the full use of existing user-built GC/MS spectral search libraries. **TECHNICAL**

## 2.5 Operating/Data Computer System Hardware

- 2.5.1 The PC must feature at least a Pentium 4 processor operating at 4 GHz or higher. **MANDATORY**
- 2.5.2 8 GB (or greater) RAM. **MANDATORY**
- 2.5.3 500 GB (or greater) hard drive. **MANDATORY**
- 2.5.4 If the instrument requires a dedicated network card for communications then an additional 10/100/1000 Base-T LAN interface must be provided for access to the laboratory's network. Must have two network ports (one for Instrument and one for Lab Network). **MANDATORY**
- 2.5.5 The PC should be equipped with a minimum 22" LCD monitor that features minimum resolution of 1280x1024 resolutions. **MANDATORY**
- 2.5.6 A network capable colour laser printer with printing speed of at least 8 pages per minute and with at least one high speed USB 2.0 port. **TECHNICAL**
- 2.5.7 The desktop should feature a dedicated graphic board for fast chromatogram rendition. **TECHNICAL**

## 2.6 System Implementation and Training

- 2.6.1 The system must be CSA approved. **MANDATORY**
- 2.6.2 Performance verification documentation after the system is installed is required before acceptance and payment. **MANDATORY**
- 2.6.3 A minimum of 3 days of training. **MANDATORY**
- 2.6.4 The system must be supplied with at least 1 set of consumable parts and tool kit necessary for maintaining operation. **MANDATORY**
- 2.6.5 The system should include pre-installation site specifications to ensure site-readiness for installation. Specify SITE REQUIREMENTS including bench space, temperature and operating range, electrical connections (voltages and numbers), gases required, and any special requirements (venting, etc.). **TECHNICAL**
- 2.6.6 Provide USB devices with detailed training videos on the use of instrument and trouble shooting. **TECHNICAL**

- 2.6.7 Provide detail information regarding seamlessly transfer methods and data files generated from the Varian 3800 MS, Agilent 5973 and Agilent 5975C MS. **TECHNICAL**
- 2.6.8 State the suitability of the proposed system to meet the challenges of PAH and alkylated PAH analysis, oil sands monitoring, birds oiled at sea, rodenticides, pesticides, surfactants, PPCP, glycol, vegetable oil ID, substituted phenols (including chlorinated phenols), petroleum hydrocarbon identification and general unknown screening at PYLET. **TECHNICAL**

## 2.7 Service & Support

- 2.7.1 One year on-site parts and labour warranty/maintenance agreement on all components. Both on-site and telephone support must be included as standard. Pricing for additional warranty should be included as options. The warranty will begin on the DATE OF ACCEPTANCE of the system by the scientific authority. The DATE OF ACCEPTANCE will be determined (after installation) by the vendor demonstrating that the SYSTEM meets all of the user's requirements, and the manufacturer's own performance specifications. **MANDATORY**
- 2.7.2 On-site service technicians must be available within 2 business days of a service request. Vendors must provide in writing their guarantee of a service response. **MANDATORY**
- 2.7.3 Telephone support service calls must be responded to within one business day during the instrument warranty period. Vendors must provide in writing their guarantee of service response. **MANDATORY**
- 2.7.4 Application chemists must be available for method development, customized on-site or on-line applications support. Vendors must provide in writing their guarantee of service response. **MANDATORY**
- 2.7.5 Entire analytical system consisting of gas chromatograph, tandem quadrupole mass spectrometer, autosampler, and software are manufactured, serviced and warranted by one vendor. **MANDATORY**
- 2.7.6 Provide details with regards to available regional service resources, e.g., number of GC-MS/MS factory trained and certified support engineers, years of experience. **TECHNICAL**
- 2.7.7 Provide telephone or e-mail technical support on instrument issue (both hard ware, software including firmware) for initial trouble shooting which may lead to service call. **TECHNICAL**

## 2.8 System Performance Specifications

- 2.8.1 The system performance specifications listed below are intended to supplement the Vendor's standard installation tests and are designed to ensure that the system supplied is able to meet the performance levels requires. **MANDATORY**
- 2.8.2 Vendors must supply results of actual tests with the standard deviations (sigma) and detection limits. Detection limits and stability results listed in brochures will not be accepted. **MANDATORY**
- 2.8.3 The system to meet or exceed the specifications below: **MANDATORY**
- 2.8.4 The Vendor must supply results of the ability of the instrument to reach their stated installation and performance qualification criteria. **MANDATORY**

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Mode	Chemical	Amount	Expected Results
El MRM Sensitivity (transition from $m/z$ 272 to $m/z$ 241, or $m/z$ 272 to $m/z$ 222)	Octafluoronapht halene (OFN)	100 femtograms	S/N > 6,000:1  5 scans per second with resolution of 0.7 Da
El Scan  (scanning from 50 to 300 u)	OFN	1 picogram	S/N > 600:1 at $m/z$ 272

**NOTE: All notes within Annex A Requirement Specifications will not be part of the Resulting Contract and will be removed upon Contract Award.**

## **ANNEX B**

### **BASIS OF PAYMENT**

#### **B.1 Financial Proposal Instructions**

##### **1. Pricing Requirements**

Environment and Climate Change Canada requires a fully installed and functional Gas Chromatograph Tandem Mass Spectrometer (GC-MS/MS) system. It is mandatory that the successful Contractor must supply, deliver and install all equipment, accessories and materials necessary for a fully functional system. Any materials and equipment necessary for the proper operation of the system not specified or described shall be deemed as part of the specification.

Any technological upgrades, such as new software versions, system ROM, firmware upgrades, etc, that are released after the system is ordered but before delivery and acceptance, shall be included at no charge. The cost(s) of any item(s) omitted from the quote that are required to meet system requirements and specifications as described herein, are to be the sole responsibility of the bidder.

##### **2. Firm Price**

All prices must include DELIVERY to and system INSTALLATION at PYLET Environment and Climate Change Canada at 2645 Dollarton Highway, North Vancouver, BC. The cost(s) of any item(s) omitted from the quote(s) that are required to meet system requirements and specifications as described herein, are to be the sole responsibility of the Bidder.

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

Each bidder shall provide a separate firm price for the Base Bid for each item of equipment listed in this RFP. FOB destination, installed, include all delivery charges separately, to be valid for a period of up to 90 days from the date of the closing of the contract bid.

The unit price and the details of calculations leading up to the total bid price shall be clearly shown as a total dollar figure and shall include itemized: equipment; software with any license fees, installation, set-up, labour and any delivery charges. Pricing for the equipment should include five (5) parts:

2.1 The cost of the equipment;

2.2 The cost of training;

2.3 The cost of the installation and verification/commissioning charge – including any travel accommodations costs;

or

2.4 Explanation of the two(2) years on-site parts and labour warranty/maintenance policies for the system, and detailing the labour and equipment coverage and any limitations;

2.5 The cost of additional warranty as an option;



## 2.6 The cost of additional value added items.

3. The terms and conditions in B.2 and the proposed price will be included as Annex B – Basis of Payment in the resulting contract.

### B.2 Resulting Annex B – Basis of Payment for the Contract

All technological upgrades, such as new software versions, system ROM upgrades, etc, that are released after the system is ordered but before delivery and acceptance must be included at no additional charge.

The cost of any item that is omitted but are required to meet the system requirements and specifications are the sole responsibility of the Contract.

Prices must be in Canadian dollars, Applicable taxes excluded, FOB destination to Environment and Climate Change Canada at 2645 Dollarton Highway, North Vancouver, BC. Canada Custom duties and excise taxes included.

Sample Pricing Table: **Note that this is only an example and your price proposal should be in a similar format.**

#### Initial Order

Item #	Part No.	Description	U of I	Qty	Unit Cost	Extended Cost
1	xxxx		ea			
1a	xxxa		ea			
1b	xxxb		ea			
1c	xxxc		ea			
1d	xxxd		ea			
1e			ea			
1f	zzzzz		ea			
1g			ea			
2			ea			
2a	1.112		ea			
2b	1.113		ea			
2c	aaaa		ea			
2d	zzzzzx	etc	ea			
3	aaa	Installation	Lot	1		
4	bbb	On-site training	Lot	1		
5	ccc	Initial Warranty/Maintenance and support	Yr	1		
		Subtotal 1				

#### Optional Services

6	dddd	Year 2 – warranty / maintenance and support extension	Lot	1		
6	eeee	Year 3 – warranty / maintenance and support extension	Lot	1		
7	ffff	Year 4 – warranty / maintenance and support extension	Lot	1		

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8	gggg	Year 5 – warranty / maintenance and support extension	Lot	1		
		Subtotal 2				

**TOTAL PRICE (Subtotal 1 & 2) :** \$ \_\_\_\_\_

**B.3 Optional Goods – Value Added items** (This will not be part of the financial evaluation)

**Note:** Vendor may list optional items, and relevant information and specifications that deem suitable and beneficial to Environment and Climate Change Canada PYLET to fulfill its mandate as stated in Annex A and thus to become part of this tender, such as:

- GC capillary columns, especially PAH speciality columns
- Additional in-depth training courses
- Large data display monitor of 32 inches
- A network capable laser colour printer with at least one high speed USB 3.0 port and Wi-Fi capable.
- Any other accessories or components that will enhance the performance of capacities of the proposed system.
-

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### **ANNEX C to PART 3 OF THE BID SOLICITATION**

#### **ELECTRONIC PAYMENT INSTRUMENTS**

*As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.*

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ VISA Acquisition Card;
- ☐ MasterCard Acquisition Card;
- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only);
- ☐ Large Value Transfer System (LVTS) (Over \$25M)

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## ANNEX "D" to PART 5 OF THE BID SOLICITATION

### FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\)-Labour's](#) website.

Date: \_\_\_\_\_ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- ☐ A1. The Bidder certifies having no work force in Canada.
- ☐ A2. The Bidder certifies being a public sector employer.
- ☐ A3. The Bidder certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- ☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

- ☐ A5.1. The Bidder certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

**OR**

- ☐ A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity](#) (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- ☐ B1. The Bidder is not a Joint Venture.

**OR**

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- 
- ( ) B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

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## ANNEX E

### EVALUATION CRITERIA AND BASIS OF SELECTION

#### **PART 1 - TECHNICAL EVALUATION**

Technical bids will be evaluated as follows:

##### **E1.0 Mandatory Requirements**

Failure to meet the mandatory requirements will render the bid as non-responsive and no further evaluation will be carried out.

##### **E2.0 Technical Requirements – Mandatory and Point Rated Criteria**

- (a) Bids meeting the mandatory requirements will be evaluated in accordance with the point rated criteria. As indicated under Part 3, Section 3.1 of the RFP, the technical bid should address clearly and in sufficient depth, the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient.
- (b) Using the provided forms or using a reasonable copy of the provided forms on a separate page or pages, provide a response to each of the following mandatory and point rated criteria.
- (c) The information provided by the Bidder may be verified by Canada. Failure by the Bidder to provide the required information or in the event that the information cannot be verified shall result in the Bidder being disqualified and no further consideration will be given to the Bidder.
- (d) Canada reserves the right to verify information for completeness and accuracy and to confirm reference satisfaction with services provided. In the event the information cannot be verified or the service is found to be unsatisfactory shall result in the bid being considered non-responsive and no further consideration will be given to the Bidder.

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### **E3.0 Mandatory Criteria**

#### **E3.1 Gas Chromatograph**

E3.1.1	The GC Subsystem should be an integrated part of the total system and designated for unattended operation. It must be under complete control of the operating/data computer system.
E3.1.2	All temperature zones (inlets, oven, detectors, and transfer line to mass spectrometer) must be independently controlled via microprocessors under computer control.
E3.1.3	All gas pressures and flows to inlets and detectors electronically controlled via the computer system.
E3.1.4	All gas regulators and tubing required for system installation must be included.
E3.1.5	The GC method should be part of the full method along with Automatic Sampling parameters, Mass Spectrometer settings, Data Processing options and Reporting Options.
E3.1.6	The GC mainframe supports up to two additional GC detectors with simultaneous operation with the MS.
E3.1.7	The instrument must be configured with a split/splitless inlet.
E3.1.8	Oven size capable of accommodating two capillary columns.
E3.1.9	The GC line must interface to the mass spectrometer via a direct connection heated transfer line with the effluent of the GC going directly into the MS system. The heating of this connection must be regulated via microprocessor under computer control with temperature variable from ambient to 350 °C.

#### **E3.2 GC Autosampler (A/S)**

E3.2.1	Must be compatible with gas chromatograph and instrument control software.
E3.2.2	A/S system must provide the capability of simultaneous dual injection of the same sample into the two GC injectors.

### E3.3 Mass Spectrometer

E3.3.1	The MS/MS Subsystem should be an integrated part of the total system and designated for unattended operation and dedicated to perform GC/MS/MS.
E3.3.2	The mass spectrometer must be of the tandem quadrupole type.
E3.3.3	Supplied with the appropriate source for Electron Impact Ionization (EI) but capable of being upgraded to Positive and Negative Chemical Ionization (PCI and NCI).
E3.3.4	Capable of Scan, Multiple Reaction Monitoring (MRM), and within the same analytical run synchronous Scan and MRM.
E3.3.5	Auto-tuning for each of EI, PCI and NCI.
E3.3.6	Ion source temperature independently heated up to 300 °C.
E3.3.7	Mass spectrums have to be library searchable.
E3.3.8	Turbo-molecular pump, air-cooled, evacuating the source and the analyzer.
E3.3.9	Real-time vacuum pressure monitoring of mass spectrometer.
E3.3.10	Fully compatible with hydrogen carrier gas and safe operation

### E3.4 Operating/Data Computer System Software

E3.4.1	Full control of instrumentation operation including data acquisition and processing.
E3.4.2	Multi-tasking and able to acquire and process data in real time.
E3.4.3	Full graphical instrument control window with the ability to display system parameters concurrently in real time.
E3.4.4	Internal diagnostics including error checking, trouble shooting and a complete fault log.
E3.4.5	Various calibration modes including external and internal calibration.
E3.4.6	Multilevel linear and multilevel non-linear calibration capacity.
E3.4.7	Ability to insert samples without stopping and restarting a previously started acquisition sequence.
E3.4.8	Latest NIST MS spectral library included with search capability for qualitative identification.
E3.4.9	Automatic and manual tuning of MS instruments.
E3.4.10	Storage and recall of chromatograms and spectra.
E3.4.11	Capable of exporting data batched to standard data file types (.txt, .csv, .xls, .mdb) that could be used to upload the data to a LIMS for archiving and final reporting.



E3.4.12	Deconvolution software is included.
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### E3.5 Operating/Date Computer System Hardware

E3.5.1	The PC must feature at least a Pentium 4 processor operating at 4 GHz or higher.
E3.5.2	8 GB (or greater) RAM.
E3.5.3	500 GB (or greater) hard drive.
E3.5.4	If the instrument requires a dedicated network card for communications then an additional 10/100/1000 Base-T LAN interface is provided for access to the laboratory's network. Must have two network ports (one for Instrument and one for Lab Network).
E3.5.5	The PC is equipped with a minimum 22" LCD monitor that features minimum resolution of 1280x1024 resolutions.

### E3.6 System Implementation and Training

E3.6.1	The system must be CSA approved
E3.6.2	Performance verification documentation after the system is installed is required before acceptance and payment.
E3.6.3	A minimum of 3 days of training.
D3.6.4	The system must be supplied with at least 1 set of consumable parts and tool kit necessary for maintaining operation.

### E3.7 Service and Support

E3.7.1	One year on-site parts and labour warranty/maintenance agreement on all components. Both on-site and telephone support must be included as standard. Pricing for additional warranty should be included as options. The warranty will begin on the DATE OF ACCEPTANCE of the system by the scientific authority. The DATE OF ACCEPTANCE will be determined (after installation) by the vendor demonstrating that the SYSTEM meets all of the user's requirements, and the manufacturer's own performance specifications.
E3.7.2	On-site service technicians must be available within 2 business days of a service request. Vendors must provide in writing their guarantee of a service response.
E3.7.3	Telephone support service calls must be responded to within one business day. Vendors must provide in writing their guarantee of service response.
E3.7.4	Application chemists must be available for method development, customized on-site or on-line applications support. Vendors must provide in writing their guarantee of service

	response.
E3.7.5	Entire analytical system consisting of gas chromatograph, tandem quadrupole mass spectrometer, autosampler, and software are manufactured, serviced, and warranted by one vendor.

### E3.8 System Performance Specifications

E3.8.1	The system performance specifications listed below are intended to supplement the Vendor's standard installation tests and are designed to ensure that the system supplied is able to meet the performance levels requires.
E3.8.2	Vendors must supply results of actual tests with the standard deviations (sigma) and detection limits. Detection limits and stability results listed in brochures will not be accepted.
E3.8.3	The system to meet or exceed the listed specifications:
E3.8.4	The Vendor must supply results of the ability of the instrument to reach their stated installation and performance qualification criteria.

Mode	Chemical	Amount	Expected Results
EI MRM Sensitivity (transition from $m/z$ 272 to $m/z$ 241, or $m/z$ 272 to $m/z$ 222)	Octafluorona phthalene (OFN)	100 femtograms	S/N > 6,000:1 5 scans per second with resolution of 0.7 Da
EI Scan (scanning from 50 to 300 u)	OFN	1 picogram	S/N > 600:1 at $m/z$ 272

### **E4.0 Point Rated Criteria (TOTAL points = 400 points; Pass mark = 280 pints)**

#### **E4.1 Gas Chromatograph**

E4.1.1	The GC chassis to include an oven temperature range of 40 to 450 °C, programs rates of 75 °C or faster, minimum 5 temperature programming ramps, 60 minute or longer maximum run time, and built-in diagnostics which can be viewed via the data system.	_____/8
E4.1.2	Equipped with a Flame Ionization Detector (FID).	_____/6
E4.1.3	Temperature programmable split/splitless inlet with electronic programmable pressure control (0.1 to 50 psi minimum), programmable split ratio control, adjustable septum purge, split/splitless solenoid control. Compatible with 0.10 to 0.53 mm diameter fused silica columns with lengths 15m to 60m. Capable of pressure-programming with gas saver mode to reduce gas consumption without compromising	_____/6

	performance.	
E4.1.4	Capable of Cryogenic cooling (Liquid Nitrogen), cool on-column and large volume injections.	____/6
E4.1.5	Capable of liquid Nitrogen cryogenics for sub-ambient temperature operation of the GC column oven.	____/6
E4.1.6	GC oven set point resolution of 1 °C.	____/6
E4.1.7	Oven cool down 400 °C to 50 °C in 5 min.	____/8
E4.1.8	Equipped with a keypad display for standalone operation.	____/8
E4.1.9	Capable of capillary flow technologies to provide backflush, quick column switching to the Mass Spec and column effluent splitting.	____/16
E4.1.10	Equipped with early maintenance feedback (monitors GC and MS resources such as number of injections, operation time, electronic logs, planned maintenance)	____/5

#### E4.2 GC Autosampler (A/S)

E4.2.1	If multiple autosampler options are available, provide complete specifications for each option.	____/8
E4.2.2	Handles 2 ml vials with sample capacity of at least 80 vials.	____/8
E4.2.3	Fully under software control with random access to vials in tray.	____/8
E4.2.4	Priority sample can be inserted into the sequence at any time.	____/6
E4.2.5	Handles standard syringe sizes such as 5 and 10 micro-litres.	____/6
E4.2.6	Variable sampling depth for syringe.	____/6
E4.2.7	Pre- and post-injection rinsing of the syringe with two or more solvents.	____/10
E4.2.8	Incorporates compensation for variable solvent density.	____/10
E4.2.9	Injection volumes including 0.1 to 50 micro-litres.	____/10
E4.2.10	Variable syringe plunger speeds.	____/6
E4.2.11	Capable of being upgraded to enable on-column injection.	____/4
E4.2.12	Adjustable injection delay time and pre- and post-injection dwell times.	____/6
E4.2.13	Capable of multiple injections per vial.	____/8

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### E4.3 Mass Spectrometer

E4.3.1	Mass range up to 1000 u.	____/6
E4.3.2	Resolution to be unit mass adjustable by tune from 0.7 to 2.5 Daltons.	____/8
E4.3.3	Minimum mass axis stability of +/- 0.1 u over 24 hours.	____/8
E4.3.4	Scan speed of up to 6500 u/sec.	____/8
E4.3.5	MRM speed to be 500 transitions/sec	____/8
E4.3.6	Minimum MRM dwell times to be 1 msec.	____/8
E4.3.7	Chemical ionization with digital control of reagent gas from software.	____/8
E4.3.8	Mechanical vacuum pumps (one or more as required.)	____/10
E4.3.9	Quadrupole temperature independently heated up to 200 °C.	____/10
E4.3.10	Unique EI source design which may enhance instrument sensitivity, cost reduction, and ruggedness	____/10
E4.3.11	Demonstrate that the instrument is capable of using many types of gases other than Ar and N2 in the collision cell.	____/5

### E4.4 Operating/Data Computer System Software

E4.4.1	The PC computer system's operating system should be Microsoft Windows 7 installed to conform to Environment and Climate Change Canada's network security requirements.	____/8
E4.4.2	Fully automated system start-up and shut down.	____/8
E4.4.3	Comprehensive context sensitive help including hypertext links and index.	____/6
E4.4.4	Full data processing and reprocessing capabilities including control or editing of chromatogram integration, compound identification, calibration curves, quantitation and reporting parameters without the need to re-run samples.	____/8
E4.4.5	The system has the ability to process data files with the laboratories existing base of Agilent 5973, Agilent 5975 and Varian CP3800 GC/MS instruments. This includes calibration, quantitation, and the full use of existing user-built GC/MS spectral search libraries.	____/16

### E4.5 Operating/Data Computer System Hardware

E4.5.1	A network capable colour laser printer with printing speed of at least 8 pages per minute and with at least one high speed USB 2.0 port.	____/4
E4.5.2	The desktop should feature a dedicated graphic board for fast chromatogram rendition.	____/8

#### E4.6 System Implementation and Training

E4.6.1	The system should include pre-installation site specifications to ensure site-readiness for installation. Specify SITE REQUIREMENTS including bench space, temperature and operating range, electrical connections (voltages and numbers), gases required, and any special requirements (venting, etc.).	____/8
E4.6.2	Provide USB devices with detailed training videos on the use of instrument and trouble shooting.	____/8
E4.6.3	Provide detail information regarding seamlessly transfer methods files generated from the Varian CP3800 MS, Agilent 5973 and Agilent 5975C MS	____/18
E4.6.4	State in detail the suitability of the proposed system to meet the challenges of PAH and alkylated PAH analysis, oil sands monitoring, birds oiled at sea, rodenticides, pesticides, surfactants, PPCP, glycol, vegetable oil ID, substituted phenols (including chlorinated phenols), petroleum hydrocarbon identification and general unknown screening at PYLET.	____/40

#### E4.7 Service & Support

E4.7.1	Provide details with regards to available regional service resources, e.g., number of GC-MS/MS factory trained and certified support engineers, years of experience.	____/5
E4.7.2	Provide telephone or e-mail technical support on instrument issue (both hard ware, software including firmware) for initial trouble shooting which may lead to service call.	____/3

## **PART 3– BASIS OF SELECTION**

### ***E5.0 Basis of Selection***

#### **E5.1 Basis of Selection - Weighted Technical/Financial Split**

E5.1.1 To be declared responsive, a bid must:

- (a) Comply with all the requirements of the id solicitation; and
- (b) Meet all mandatory criteria; and
- (c) Obtain the required minimum points specified for the technical evaluation

The rating is performed on a scale of 400 points. Minimum points of 280 (70%) of the total points must be achieved.

E5.1.2 Bid not meeting (a) or (b) or (c) will be declared non-responsive.

E5.1.3 The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 80% for the technical merit and 20% for the price.

E5.1.4 To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained ÷ maximum number of points available multiplied by the ratio of 80%.

E5.1.5 To establish the pricing score, each responsive bid will be prorated against the lowest evaluation price and the ratio of 20%.

E5.1.6 For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

E5.1.7 Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract, provided that the total evaluated price (Initial Order) does not exceed the budget available for this requirement.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 80/20 ratio of technical merit and price, respectively. The total available points equals 400 and the lowest evaluated price is \$45,000 (45).

#### **Basis of Selection – Highest Combined Rating Technical Merit (80%) and Price (20%)**

		<b>Bidder 1</b>	<b>Bidder 2</b>	<b>Bidder 3</b>
Overall Technical Score		360/400	320/400	345/400
Bid Evaluated Price		55,000	50,000	45,000
Calculations	Technical Merit Score	$360/400 \times 80 = 72$	$320/400 \times 80 = 64$	$345/400 \times 80 = 69$
	Pricing Score	$45/55 \times 20 = 16.36$	$45/50 \times 20 = 18$	$45/45 \times 20 = 20.00$
Combined Rating		88.36	82.00	89.00
Overall Rating		2nd	3rd	1st

Therefore, the contract will be awarded to Bidder 3. **Dollar values do not include applicable taxes.**

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FORM 1 - Bidder's Submission Information		
<b>Bidder's full legal name</b>		
<b>Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)</b>	Name	
	Title	
	Address	
	Fax #	
	Email	
<b>Bidder's Procurement Business Number (PBN)</b> [see the <i>Standard Instructions 2003</i> ]		
<b>Jurisdiction of Contract:</b> Province in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation)		
<b>Federal Contractors Program for Employment Equity (FCP EE) Certification:</b>	See Annex E	
<b>COMPLETE LIST OF NAMES OF ALL INDIVIDUALS WHO ARE CURRENT BOARD OF DIRECTORS OF THE BIDDER:</b>		
<b>NAME</b>	<b>TITLE</b>	
_____	_____	
_____	_____	
_____	_____	
_____	_____	
_____	_____	
On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that: 1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation; 2. This bid is valid for the period requested in the bid solicitation; 3. All the information provided in the bid is complete, true and accurate; and 4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation.		
<b>Signature of Authorized Representative of Bidder</b>		

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## FORM 2

### SUBSTANTIATION OF TECHNICAL COMPLIANCE FORM

#### INSTRUMENT REQUIREMENT

The gas chromatograph mass spectrometer (GC-MS) system must meet the following mandatory requirements and achieve minimum points of point rated criteria.

**B1. Gas Chromatograph Mass Spectrometer (GC-MS) system:** \_\_\_\_\_  
(insert model name)

#### B1.0 MANDATORY CRITERIA

Section	Subject	Comply (Yes/No)	Substantiation  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe	Reference  Bidders please clearly indicate where supporting documentation can be found in the bid.
<b>B1.1</b>	<b>General</b>			
B1.1.1	Environment and Climate Change Canada (PYLET in North Vancouver, BC ) requires to supply, deliver and install a gas chromatograph mass spectrometer (GC-MS) system at 2645 Dollarton Highway, North Vancouver, for the quantitative and qualitative analysis of a wide variety of trace level environmental volatile and semi-volatile	Y/N	Bidders must submit documentation with their bid package that CLEARLY AND PRECISELY DEMONSTRATES how their system complies with the required specifications. The specifications given by a vendor must be demonstrated during installation at no extra charge.	



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	<p>organic compounds (VOCs).</p> <p>Instrument System must me all GLP, ISO and CSA standards.</p> <p>The supplied Gas Chromatograph Tandem Mass Spectrometer (GC-MS/MS) System shall include all parts/equipment/software/data storage capacity necessary for analysis. It is incumbent upon the vendor to recommend a specific hardware configuration for a COMPLETE SYSTEM that is GUARANTEED suitable for the purposes specified</p>			
<b>B1.2</b>	<b>Specifications and Standards</b>			
B1.2.1	<p>The System must be in accordance with the following specifications. If any additional components, peripherals or supplies are necessary to operate the instrument on arrival at the customer site, these must be included with the system. The system must be a new unit which must have full manufacturer's warranty. Demo or refurbished units will <u>not</u> be considered.</p>	Y/N		
<b>B1.3</b>	<b>Gas Chromatograph Mass Spectrometer (GC-MS) System</b>			
<b>B1.3.1</b>	<p>The Gas Chromatograph Mass Spectrometer (GC-MS) System shall consist of, but not be limited to, the</p>	Y/N		

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	<p>following major components, complete with all software/hardware and interfacing necessary to make a fully integrated system.</p> <ul style="list-style-type: none"><li>- Gas Chromatograph (GC)</li><li>- GC Autosampler</li><li>- Mass Spectrometer</li><li>- Operating/Data System Software</li><li>- Operating/Data System Hardware</li><li>- System Implementation and Training</li><li>- Service &amp; Support</li><li>- System Performance Specifications</li><li>- Operational and Performance Qualifications</li></ul>			
<b>B1.3.2</b>	<p>The GC Subsystem should be an integrated part of the total system and designated for unattended operation. It must be under complete control of the operating/data computer system.</p>	Y/N		
<b>B1.3.3</b>	<p>All temperature zones (inlets, oven, detectors, and transfer line to mass spectrometer) must be independently controlled via microprocessors under computer control.</p>	Y/N		
<b>B1.3.4</b>	<p>All gas pressures and flows to inlets and detectors electronically controlled via the computer system.</p>	Y/N		

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<b>B1.3.5</b>	All consumables such as tubing, fittings, cables required for system installation must be included.	Y/N		
<b>B1.3.6</b>	The GC method should be part of the full method along with Automatic Sampling parameters, Mass Spectrometer settings, Data Processing options and Reporting Options.	Y/N		
<b>B1.3.7</b>	GC mainframe supports up to two additional GC detectors with simultaneous operation with the MS.	Y/N		
<b>B1.3.8</b>	The instrument must be configured with a split/splitless inlet.	Y/N		
<b>B1.3.9</b>	Oven size capable of accommodating two capillary columns.	Y/N		
<b>B1.3.10</b>	The GC line must interface to the mass spectrometer via a direct connection heated transfer line with the effluent of the GC going directly into the MS system. The heating of this connection must be regulated via microprocessor under computer control with temperature variable from ambient to 350 °C.	Y/N		
<b>B1.4</b>	<b>GC Autosampler (A/S)</b>			

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<b>B1.4.1</b>	Must be compatible with gas chromatograph and instrument control software.	Y/N		
<b>B1.4.2</b>	Autosampler system must provide the capability of simultaneous dual injection of the same sample into the two GC injectors.	Y/N		
<b>B1.5</b>	<b>Mass Spectrometer</b>			
<b>B1.5.1</b>	The MS/MS Subsystem should be an integrated part of the total system and designated for unattended operation and dedicated to perform GC/MS/MS.	Y/N		
<b>B1.5.2</b>	The mass spectrometer must be of the tandem quadrupole type	Y/N		
<b>B1.5.3</b>	Supplied with appropriate source for Electron Impact Ionization (EI) but capable of being upgraded to Positive and Negative Chemical Ionization (PCI and NCI).	Y/N		
<b>B1.5.4</b>	Capable of Scan, Multiple Reaction Monitoring (MRM), and within the same analytical run synchronous Scan and MRM.	Y/N		
<b>B1.5.5</b>	Auto-tuning for each of EI, PCI and	Y/N		

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	NCI.			
<b>B1.5.6</b>	Ion source temperature independently heated up to 300 °C.	Y/N		
<b>B1.5.7</b>	Mass spectrums have to be library searchable.	Y/N		
<b>B1.5.8</b>	Turbo-molecular pump, air-cooled, evacuating the source and the analyzer.	Y/N		
<b>B1.5.9</b>	Real-time vacuum pressure monitoring of mass spectrometer.	Y/N		
<b>B1.5.10</b>	Fully compatible with hydrogen carrier gas and safe operation.	Y/N		
<b>B1.6</b>	<b>Operating/Data Computer System Software</b>			
<b>B1.6.1</b>	Full control of instrumentation operation including data acquisition and processing.	Y/N		
<b>B1.6.2</b>	Multi-tasking and able to acquire and process data in real time.	Y/N		
<b>B1.6.3</b>	Full graphical instrument control window with the ability to display system parameters concurrently in real time.	Y/N		

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<b>B1.6.4</b>	Internal diagnostics including error checking, trouble shooting and a complete fault log.	Y/N		
<b>B1.6.5</b>	Various calibration modes including external and internal calibration.	Y/N		
<b>B1.6.6</b>	Multilevel linear and multilevel non-linear calibration capacity.	Y/N		
<b>B1.6.7</b>	Ability to insert samples without stopping and restarting a previously started acquisition sequence.	Y/N		
<b>B1.6.8</b>	Latest NIST MS spectral library included with search capability for qualitative identification.	Y/N		
<b>B1.6.9</b>	Automatic and manual tuning of MS instruments.	Y/N		
<b>B1.6.10</b>	Storage and recall of chromatograms and spectra.	Y/N		
<b>B1.6.11</b>	Capable of exporting data batched to standard data file types (.txt, .csv, .xls, .mdb) that could be used to upload the data to a LIMS for archiving and final reporting.	Y/N		
<b>B1.6.12</b>	Deconvolution software included.	Y/N		
<b>B1.7</b>	<b>Operating/Data Computer System Hardware</b>			

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<b>B1.7.1</b>	The PC must feature at least a Pentium 4 processor operating at 4 GHz or higher.	Y/N		
<b>B1.7.2</b>	8 GB (or greater) RAM.	Y/N		
<b>B1.7.3</b>	500 GB (or greater) hard drive.	Y/N		
<b>B1.7.4</b>	If the instrument requires a dedicated network card for communications then an additional 10/100/1000 Base-T LAN interface must be provided for access to the laboratory's network. Must have two network ports (one for Instrument and one for Lab Network).	Y/N		
<b>B1.7.5</b>	The PC should be equipped with a minimum 22" LCD monitor that features minimum resolution of 1280x1024 resolutions.	Y/N		
<b>B1.8</b>	<b>System Implementation and Training</b>			
<b>B1.8.1</b>	The system must be CSA approved	Y/N		
<b>B1.8.2</b>	Performance verification documentation after the system is installed is required before acceptance and payment.	Y/N		
<b>B1.8.3</b>	A minimum of 3 days of training	Y/N		
<b>B1.8.4</b>	The system must be supplied with at least 1 set of consumable parts and tool	Y/N		

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	kit necessary for maintaining operation.			
<b>B1.9</b>	<b>Service &amp; Support</b>			
<b>B1.9.1</b>	One year on-site parts and labour warranty/maintenance agreement on all components. Both on-site and telephone support must be included as standard. Pricing for additional warranty should be included as options. The warranty will begin on the DATE OF ACCEPTANCE of the system by the scientific authority. The DATE OF ACCEPTANCE will be determined (after installation) by the vendor demonstrating that the SYSTEM meets all of the user's requirements, and the manufacturer's own performance specifications.	Y/N		
<b>B1.9.2</b>	On-site service technicians must be available within 2 business days of a service request. Vendors must provide in writing their guarantee of a service response.	Y/N		
<b>B1.9.3</b>	Telephone support service calls must be responded to within one business day during the instrument warranty period. Vendors must provide in writing their guarantee of service response.	Y/N		



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<b>B1.9.4</b>	Application chemists must be available for method development, customized on-site or on-line applications support. Vendors must provide in writing their guarantee of service response.	Y/N		
<b>B1.9.5</b>	Entire analytical system consisting of gas chromatograph, tandem quadrupole mass spectrometer, autosampler, and software are manufactured, serviced and warranted by one vendor.	Y/N		
<b>B1.10</b>	<b>System Performance Specifications</b>			
<b>B1.10.1</b>	The system performance specifications listed below are intended to supplement the Vendor's standard installation tests and are designed to ensure that the system supplied is able to meet the performance levels requires.	Y/N		
<b>B1.10.2</b>	Vendors must supply results of actual tests with the standard deviations (sigma) and detection limits. Detection limits and stability results listed in brochures will not be accepted.	Y/N		
<b>B1.10.3</b>	The system to meet or exceed the specifications below:	Y/N		

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<b>B1.10.4</b>	The Vendor must supply results of the ability of the instrument to reach their stated installation and performance qualification criteria.	Y/N		
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Mode	Chemical	Amount	Expected Results
El MRM Sensitivity (transition from $m/z$ 272 to $m/z$ 241, or $m/z$ 272 to $m/z$ 222)	Octafluoronaphthalene (OFN)	100 femtograms	S/N > 6,000:1  5 scans per second with resolution of 0.7 Da
El Scan  (scanning from 50 to 300 u)	OFN	1 picogram	S/N > 600:1 at $m/z$ 272

## **B2.0 POINT RATED CRITERIA (TOTAL points = 400 points; Pass mark = 280 pints)**

Bidders must score a minimum of 70% of the maximum points available. Proposals which fail to score the minimum of 70% will be deemed non-responsive and not considered further.

<b>B2.1</b>	<b>Gas Chromatograph Mass Spectrometer</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe how the devices meet the mandatory criteria.	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be found in the bid.
<b>B2.1.1</b>	The GC chassis to include an oven temperature	____/8		

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	range of 40 to 450 °C, programs rates of up to 75 °C or faster, minimum 5 temperature programming ramps, 60 minute or longer maximum run time, and built-in diagnostics which can be viewed via the data system.			
<b>B2.1.2</b>	Equipped with a Flame Ionization Detector (FID).	____/6		
<b>B2.1.3</b>	Temperature programmable split/splitless inlet with electronic programmable pressure control (0.1 to 50 psi minimum), programmable split ratio control, adjustable septum purge, split/splitless solenoid control. Compatible with 0.10 to 0.53 mm diameter fused silica columns with lengths 15m to 60m. Capable of pressure-programming with gas saver mode to reduce gas consumption without compromising performance.	____/6		
<b>B2.1.4</b>	Capable of Cryogenic cooling (Liquid Nitrogen), cool on-column and large volume injections.	____/6		
<b>B2.1.5</b>	Capable of liquid Nitrogen cryogenics for sub-ambient temperature operation of the GC column oven.	____/6		
<b>B2.1.6</b>	GC oven set point resolution of 1 °C.	____/6		
<b>B2.1.7</b>	Oven cool down 400 °C to 50 °C in 5 min.	____/8		
<b>B2.1.8</b>	Equipped with a keypad display for standalone operation.	____/8		
<b>B2.1.9</b>	Capable of capillary flow technologies to provide backflush, quick column switching to the Mass Spec and column effluent splitting.	____/16		

<b>B2.1.10</b>	Equipped with early maintenance feedback (monitors GC and MS resources such as number of injections, operation time, electronic logs, planned maintenance)	____/5		
<b>B2.2</b>	<b>Autosampler (A/S)</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe how the devices meet the mandatory criteria.	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be found in the bid.
<b>B2.2.1</b>	If multiple autosampler options are available, provide complete specifications for each option.	____/8		
<b>B2.2.2</b>	Handles 2 ml vials with sample capacity of at least 80 vials.	____/8		
<b>B2.2.3</b>	Fully under software control with random access to vials in tray.	____/8		
<b>B2.2.4</b>	Priority sample can be inserted into the sequence at any time.	____/6		
<b>B2.2.5</b>	Handles standard syringe sizes such as 5 and 10 micro-litres.	____/6		
<b>B2.2.6</b>	Variable sampling depth for syringe.	____/6		
<b>B2.2.7</b>	Pre- and post-injection rinsing of the syringe with two or more solvents.	____/10		

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<b>B2.2.8</b>	Incorporates compensation for variable solvent density.	____/10		
<b>B2.2.9</b>	Injection volumes including 0.1 to 50 micro-litres.	____/10		
<b>B2.2.10</b>	Variable syringe plunger speeds.	____/6		
<b>B2.2.11</b>	Capable of being upgraded to enable on-column injection.	____/4		
<b>B2.2.12</b>	Adjustable injection delay time and pre- and post-injection dwell times.	____/6		
<b>B2.2.13</b>	Capable of multiple injections per vial.	____/8		
<b>B2.3</b>	<b>Mass Spectrometer</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe how the devices meet the mandatory criteria.	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be found in the bid.
<b>B2.3.1</b>	Mass range up to 1000 u.	____/6		
<b>B2.3.2</b>	Resolution to be unit mass adjustable by tune from 0.7 to 2.5 Daltons.	____/8		

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<b>B2.3.3</b>	Minimum mass axis stability of +/- 0.1 u over 24 hours.	____/8		
<b>B2.3.4</b>	Scan speed of up to 6500 u/sec.	____/8		
<b>B2.3.5</b>	MRM speed to be 500 transitions/sec	____/8		
<b>B2.3.6</b>	Minimum MRM dwell times to be 1 msec.	____/8		
<b>B2.3.7</b>	Chemical ionization with digital control of reagent gas from software.	____/8		
<b>B2.3.8</b>	Mechanical vacuum pumps (one or more as required.)	____/10		
<b>B2.3.9</b>	Quadrupole temperature independently heated up to 200 °C.	____/10		
<b>B2.3.10</b>	Unique EI source design which may enhance instrument sensitivity, cost reduction, and ruggedness	____/10		
<b>B2.3.11</b>	Demonstrate that the instrument is capable of using many types of gases other than Ar and N2 in the collision cell.	____/5		
<b>B2.4</b>	<b>Operating/Data Computer System Software</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be

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			describe how the devices meet the mandatory criteria.	found in the bid.
<b>B2.4.1</b>	The PC computer system's operating system should be Microsoft Windows 7 installed to conform to Environment and Climate Change Canada's network security requirements.	_____/8		
<b>B2.4.2</b>	Fully automated system start-up and shut down.	_____/8		
<b>B2.4.3</b>	Comprehensive context sensitive help including hypertext links and index.	_____/6		
<b>B2.4.4</b>	Full data processing and reprocessing capabilities including control or editing of chromatogram integration, compound identification, calibration curves, quantitation and reporting parameters without the need to re-run samples.	_____/8		
<b>B2.4.5</b>	The system has the ability to process data files with the laboratories existing base of Agilent 5973, Agilent 5975 and Varian CP3800 GC/MS instruments. This includes calibration, quantitation, and the full use of existing user-built GC/MS spectral search libraries.	_____/16		
<b>B2.5</b>	<b>Operating/Data Computer System Hardware</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe how the devices meet the mandatory criteria.	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be found in the bid.

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<b>B2.5.1</b>	A network capable colour laser printer with printing speed of at least 8 pages per minute and with at least one high speed USB 2.0 port.	____/4		
<b>B2.5.2</b>	The desktop should feature a dedicated graphic board for fast chromatogram rendition.	____/8		
<b>B2.6</b>	<b>System Implementation and Training</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe how the devices meet the mandatory criteria.	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be found in the bid.
<b>B2.6.1</b>	The system should include pre-installation site specifications to ensure site-readiness for installation. Specify SITE REQUIREMENTS including bench space, temperature and operating range, electrical connections (voltages and numbers), gases required, and any special requirements (venting, etc.).	____/8		
<b>B2.6.2</b>	Provide USB devices with detailed training videos on the use of instrument and trouble shooting.	____/8		
<b>B2.6.3</b>	Provide detail information regarding seamlessly transfer methods files generated from the Varian CP3800 MS, Agilent 5973 and Agilent 5975C MS	____/18		



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<b>B2.6.4</b>	State in detail the suitability of the proposed system to meet the challenges of PAH and alkylated PAH analysis, oil sands monitoring, birds oiled at sea, rodenticides, pesticides, surfactants, PPCP, glycol, vegetable oil ID, substituted phenols (including chlorinated phenols), petroleum hydrocarbon identification and general unknown screening at PYLET.	____/40		
<b>B2.7</b>	<b>Service &amp; Support</b>		<b>Substantiation</b>  Simply repeating the statement contained in the bid solicitation is not sufficient. Bidders please describe how the devices meet the mandatory criteria.	<b>Reference</b>  Bidders please clearly indicate where supporting documentation can be found in the bid.
<b>B2.7.1</b>	Provide details with regards to available regional service resources, e.g., number of GC-MS/MS factory trained and certified support engineers, years of experience.	____/5		
<b>B2.7.2</b>	Provide telephone or e-mail technical support on instrument issue (both hard ware, software including firmware) for initial trouble shooting which may lead to service call.	____/3		

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**NOTE TO BIDDERS:** Please use ONE of the two mailing labels below and affix it securely to the outside of the envelope or package containing your bid submitted by mail or courier. Always ensure your company name, return address, solicitation number and closing date appear legibly on the outside of your bid submission.

**AVIS AUX FOURNISSEURS:** Pour le retour par la poste ou par messenger, veuillez utiliser UNE des étiquettes d'envoi ci-dessous et apposez-la à l'extérieur de votre enveloppe ou du colis contenant votre offre. Assurez-vous que le nom de votre compagnie, l'adresse de retour, le numéro de l'invitation et la date de clôture soient lisibles à l'extérieur de votre offre.

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**Bid Receiving  
Public Works & Government Services Canada  
219 - 800 BURRARD STREET  
VANCOUVER BC V6Z 0B9**

**Solicitation No. : K8F11-180306/A**

**Solicitation Closes at: 14 :00 PT  
on: 26 October, 2017**

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**Réception des soumissions  
Travaux publics et services gouvernementaux Canada  
800 rue Burrard, 219 étage  
Vancouver (C.-B) V6Z 0B9**

**N° de l'invitation : K8F11-180306A**

**La réception des soumissions prend fin le : 26 octobre 2017  
à: 14:00 PT**