

**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**

<b>Title - Sujet</b> Fast CO/CO2 Analyzer	
<b>Solicitation No. - N° de l'invitation</b> K3F51-152459/A	<b>Date</b> 2015-09-18
<b>Client Reference No. - N° de référence du client</b> K3F51-152459	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$VAN-532-7621	
<b>File No. - N° de dossier</b> VAN-5-38094 (532)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-11-02</b>	<b>Time Zone 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> Takasaki, Alan H.	<b>Buyer Id - Id de l'acheteur</b> van532
<b>Telephone No. - N° de téléphone</b> (604) 775-7605 ( )	<b>FAX No. - N° de FAX</b> (604) 775-7526
<b>Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:</b> Environment Canada-Meteorological Services Air Quality Science Unit 2645 Dollarton Hwy NORTH VANCOUVER British Columbia V7H 1B1 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

<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 (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**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

Solicitation No. - N° de l'invitation

K3F51-152459/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

van532

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

K3F51-152459

VAN-5-38094

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**TITLE:**

**CO / CO<sub>2</sub> / H<sub>2</sub>O Analyzer**

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## PART 1 - GENERAL INFORMATION

### 1.1 Security Requirements

### 1.2 Requirement - Bid

The requirement is detailed under Article 2 of the resulting contract clauses.

### 1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### 1.4 Trade Agreements

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

## PART 2 - BIDDER INSTRUCTIONS

### 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.

The 2003 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

"Subsection 3 of Section 01 Integrity Provisions - Bid of the Standard Instructions 2003 incorporated by reference above is deleted in its entirety and replaced with the following:

#### 3. List of Names

- a. Bidders who are incorporated or who are a sole proprietorship, including those bidding as a joint venture, have already provided a list of names of all individuals who are directors of the Bidder, or the name of the owner(s), at the time of submitting an arrangement under the Request for Supply Arrangement (RFSA).
- b. These Bidders must immediately inform Canada in writing of any changes affecting the list of directors during this procurement process.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 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.

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**Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.**

## **2.2.1 Improvement of Requirement During Solicitation Period**

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 20 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 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 bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered 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 contract 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 - BID PREPARATION INSTRUCTIONS**

## **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid ( 2 hard copies and 1 soft copies)

Section II: Financial Bid ( 1 hard copy)

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) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

The technical bid consists of the following:

- i. **Bid Submission Form:** Bidders are requested to include the Bid Submission Form with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award, such as a contact name, the Bidder's Procurement Business Number, the Bidder's status under the Federal Contractors Program for Employment Equity, etc. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada will provide the Bidder with an opportunity to do so.
- ii. **Substantiation of Technical Compliance:** The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Requirement) identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in the form. The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder will meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.

#### **Bidders:**

- a Must designate the brand name, model and/or part number of the proposed product; and
- b Must provide complete specifications and descriptive literature to substantiate that the proposed product's meets the mandatory requirements that are specified in the bid solicitation (Form B)

Where Canada determines that the substantiation is not complete, the Bidder will be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Reference" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders to demonstrate, at the sole cost of bidders, that the proposed product meets all mandatory criteria that are specified in the bid solicitation.

## **Section II: Financial Bid**

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

### **3.1.1 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

### **3.1.2 SACC Manual Clauses**

## **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

## **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**

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete 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. Any element of the bid solicitation identified with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

The mandatory technical requirements are described in Annex A.

#### **4.1.2 Financial Evaluation**

##### **4.1.2.1 Evaluation of Price – Canadian/Foreign Bidders.**

1. The price of the bid will be evaluated as follows:
  - a. Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
  - b. foreign-based bidders must submit firm prices, Canadian customs duties, excise taxes and Applicable Taxes excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based bidders.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date,

or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

3. Although Canada reserves the right to award the Contract either on an FOB plant or FOB destination, Canada requests that bidders provide prices FOB their plant or shipping point and FOB destination. **Bids will be assessed on an FOB destination basis.**
4. For the purpose of the bid solicitation, bidders with an address in Canada are considered Canadian-based bidders and bidders with an address outside of Canada are considered foreign-based bidders

#### **4.2 Basis of Selection**

##### **4.2.1 Basis of Selection – Mandatory Technical Criteria**

*SACC Manual* Clause A0031 (2010-08-16), Basis of Selection – Mandatory Technical Criteria

## **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. 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 Declaration of Convicted Offences**

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed Declaration Form, 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 provided will render the bid non-responsive.

#### **5.2.1 Integrity Provisions – List of Names**

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

#### **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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

## PART 6 - RESULTING CONTRACT CLAUSES

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

### 6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

### 6.2 Requirement

The Contractor must provide a CO/CO<sub>2</sub>/H<sub>2</sub>O Analyzer in accordance with the Requirement at Annex "A" and the Contractor's technical bid dated \_\_\_\_\_

### 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](#) (2015-07-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### 6.3.2 Supplemental General Conditions

[4003](#) (2010-08-16), Supplemental General Conditions – Software License, apply to and form part of the Contract.

### 6.4 Term of Contract

#### 6.4.1 Delivery Date

All the deliverables must be received on or before \_\_\_\_\_ (*insert the date*).

#### 6.4.2 Shipping Instructions - Delivered Duty Paid (or Delivery Duty Unpaid)

Incoterms 2000 "DDP Delivered Duty Paid" or "DDU Delivered Duty Unpaid", Environment Canada, North Vancouver, BC

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Al Takasaki  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Address: Room 219 - 800 Burrard Street, Vancouver, B.C. V6Z 0B9

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VAN532  
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Telephone: 604-775-7605 Facsimile: 604-775-7526  
E-mail address: Al.Takasaki@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

### 6.5.2 Technical Authority

The Technical Authority for the Contract is:

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

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

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

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

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

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

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

### 6.5.3 Contractor's Representative

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

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

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

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

Telephone : \_\_\_\_ \_\_\_\_ \_\_\_\_ Facsimile: \_\_\_\_ \_\_\_\_ \_\_\_\_

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

## 6.6 Payment

### 6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex A for a cost of \$\_\_\_\_\_ (*insert the amount at contract award*). Customs duties are included. and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

#### 6.6.2 Limitation of Price

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

#### 6.6.3 Method of Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

#### 6.6.4 Taxes – Foreign-based Contractors

SACC Manual clause C2000C (2007-11-30), Taxes – Foreign-based Contractors

#### 6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

#### 6.8 Certifications

##### 6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

#### 6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_. (*Insert the name of the province or territory as specified by the Bidder in its bid, if applicable*)

#### 6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4003 (2010-08-16), Software License;
- (c) the general conditions 2010A (2015-07-03) General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) 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 SACC Manual Clauses

SACC Manual clause B1501C (2006-06-16) Electrical Equipment  
SACC Manual clause B7500C (2006-06-16) Excess Goods

## **ANNEX "A"**

### **REQUIREMENT**

#### **A.1 Requirements:**

The Contractor must supply and deliver One(1) \_\_\_\_\_ (Make and Model #) Analyzer that will simultaneously measure CO, CO<sub>2</sub> and H<sub>2</sub>O with low detection limits, high precision and time resolution.

#### **A.2 Background:**

Environment Canada requires a fast response instrument for use in process studies related to Air Quality. These studies may include near roadside measurements or aircraft measurements of CO and CO<sub>2</sub> where measurement times of 1 second or faster are required. The instrument may be used in remote locations and therefore should be able to operate without maintenance for periods of  $\geq$  1 month. In addition the instrument may be housed in stations which experience temperature changes of up to 10 C and must not have large drifts. The measurement of H<sub>2</sub>O in most cases will be utilized in order to correct to dry air from ambient air containing water.

#### **A.3 Mandatory Specifications**

The Analyzer must meet or exceed the following specifications:

- 1) Simultaneous Measurements of CO, CO<sub>2</sub> and H<sub>2</sub>O with high precision and time resolution.
  - a. The CO monitor requires a reproducibility of  $\leq 1$  ppb at 1 standard deviation for CO measurements at ambient concentration as measured in 1 second.
  - b. The CO<sub>2</sub> monitor requires a reproducibility of  $\leq 1$  ppm at 1 standard deviation for CO<sub>2</sub> measurements at ambient concentration as measured in 1 second.
  - c. The H<sub>2</sub>O monitor requires a reproducibility of  $\leq 5$  ppm at 1 standard deviation for CO measurements at ambient concentration as measured in 1 second.
- 2) Low Detection Limit for CO
  - a. Detection Limit of 10 ppb for CO in 1 min
- 3) During continuous operation on all channels, the instrument must have low drift over a 24 hour period
  - a. Maximum Drift of CO in 24 hours at of  $\leq 1$  ppb
  - b. Maximum Drift of CO<sub>2</sub> in 24 hours at of  $\leq 1$  ppm
  - c. Maximum Drift of H<sub>2</sub>O in 24 hours at of  $\leq 50$  ppm
- 4) Can measure with 10 second time resolution but be easily modified to produce 1 second or better time resolutions (Only requires the simple change of a pump)
- 5) Since measurements can be from pristine air to highly polluted urban air, the measurement range for a 10 sec average requires a large measurement range
  - a. For CO a range of 50 to 20,000 ppb
  - b. For CO<sub>2</sub> a range of 50 to 5000 ppm
  - c. For H<sub>2</sub>O a range of 100 ppm to 100% RH (non-condensing)
- 6) Must fit within a standard 19" rack
- 7) Must Interface using RS232, USB or LAN connections
- 8) The instrument must be able to be plugged into a North American standard power outlet at 115V AC at 60Hz. Power requirements must be 115V AC at 60Hz
- 9) The instrument must run unattended for periods of  $\geq$  1 month.
- 10) Does not require water cooling

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- 
- 11) Does not require cryogenic cooling
  - 12) The instrument must have a proven record of performance –
    - a. The instrument must have been used in scientific studies and has been cited in scientific literature and
    - b. The vendor must provide contact information for 2 references who have used this product for similar applications. cited in scientific literature

**A.4 Software requirement:**

- 1) Must include a perpetual software licence for any applicable software required for instrument operation.

**A.5 Warranty and Servicing**

- 1) The analyzer must have a minimum 1 year depot warranty
- 2) The shipping depot address, during and outside of the warranty period,

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**ANNEX "B"**  
**Basis of Payment**

**Table B.1**

Item #	Description	Qty	Unit	Firm Unit price	Extended total
1	CO/CO <sub>2</sub> /H <sub>2</sub> O Analyzer  Make and Model _____  FOB plant or shipping point	1	EA	\$	\$
2	All delivery charges, administration, costs and risks of transport and customs clearance, FOB Destination, Environment Canada, North Vancouver, BC Canada	1	LOT	\$	\$

**Note:**

**Item #1**

- Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.*
- Foreign-based bidders may submit firm prices, Canadian customs duties, excise taxes and Applicable Taxes excluded.*

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**FORM A – Bid Submission Form**

BID SUBMISSION FORM		
<b>Bidder's full legal name</b>		
<b>Authorized Representative of Bidder for evaluation purposes (e.g., clarifications)</b>	Name	
	Title	
	Address	
	Telephone #	
	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)		
<p>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:</p> <ol style="list-style-type: none"><li>1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation;</li><li>2. This bid is valid for the period requested in the bid solicitation;</li><li>3. All the information provided in the bid is complete, true and accurate; and</li><li>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.</li></ol>		
<b>Signature of Authorized Representative of Bidder</b>		

## FORM B: Substantiation of Technical Compliance Form

Description	Comply		Comments / References page #
	Yes	No	
<b>Make and Model offered:</b> _____			
<b>A.3 Mandatory Specifications:</b> The Analyzer must meet or exceed the following mandatory requirements			
1) Simultaneous Measurements of CO, CO <sub>2</sub> and H <sub>2</sub> O with high precision and time resolution. a. The CO monitor requires a reproducibility of ≤1 ppb at 1 standard deviation for CO measurements at ambient concentration as measured in 1 second. b. The CO <sub>2</sub> monitor requires a reproducibility of ≤1 ppm at 1 standard deviation for CO <sub>2</sub> measurements at ambient concentration as measured in 1 second. c. The H <sub>2</sub> O monitor requires a reproducibility of ≤5 ppm at 1 standard deviation for CO measurements at ambient concentration as measured in 1 second.			
2) Low Detection Limit for CO a. Detection Limit of 10 ppb for CO in 1 min			
3) During continuous operation on all channels, the instrument must have low drift over a 24 hour period a. Maximum Drift of CO in 24 hours at of ≤1 ppb b. Maximum Drift of CO <sub>2</sub> in 24 hours at of ≤1 ppm c. Maximum Drift of H <sub>2</sub> O in 24 hours at of ≤50 ppm			
4) Can measure with 10 second time resolution but be easily modified to produce 1 second or better time resolutions (Only requires the simple change of a pump)			
5) Since measurements can be from pristine air to highly polluted urban air, the measurement range for a 10 sec average requires large measurement range.  a. For CO a range of 50 to 20,000 ppb b. For CO <sub>2</sub> a range of 50 to 5000 ppm c. For H <sub>2</sub> O a range of 100 ppm to 100% RH (non-condensing)			
6) Must fit within a standard 19" rack			
7) Must Interface using RS232, USB or LAN connections			
8) The instrument must be able to be plugged into a North American standard power outlet at 115V AC at 60Hz. Power requirements must be 115V AC at 60Hz			
9) The instrument must be capable of running unattended for periods of ≥ 1 month.			



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Description	Comply		Comments / References page #
	Yes	No	
10) Does not require water cooling.			
11) Does not require cryogenic cooling			
12) The instrument must have a proven record of performance a) The instrument must have been used in scientific studies and has been cited in scientific literature  <i>The vendor <b>must</b> provide contact information for 2 references who have used this product for similar applications. cited in scientific literature</i>			
<b>A.4 Software requirement:</b> 1) Must include a perpetual software licence for any applicable software required for instrument operation.			
<b>A.5 Warranty and Servicing</b> 1) The analyzer must have a minimum 1 year depot warranty			
2) The shipping depot address, during and outside of the warranty period.  _____  _____  _____  _____			

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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, open bidding 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 ouverte à soumissionner 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. : K3F51-152459/A**

**Solicitation Closes at: 2:00 PM PT**  
**On November 02 2015**

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

**N° de l'invitation : K3F51-152459/A**

**La réception des soumissions prend fin le: 02 novembre 2015**  
**à: 14:00 PT**  
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