



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**Government of Canada Building**  
**101 - 22nd Street East, Suite 110**  
**Saskatoon**  
**Sask.**  
**S7K 0E1**  
**Bid Fax: (306) 975-5397**

**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> Carbon Analyzer System	
<b>Solicitation No. - N° de l'invitation</b> K4E21-160009/A	<b>Date</b> 2016-10-12
<b>Client Reference No. - N° de référence du client</b> K4E21-160009	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$STN-203-4920	
<b>File No. - N° de dossier</b> STN-6-39018 (203)	<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 2016-11-22</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Central Standard Time CST
<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> McDonald, Shannon	<b>Buyer Id - Id de l'acheteur</b> stn203
<b>Telephone No. - N° de téléphone</b> (306) 251-2684 ( )	<b>FAX No. - N° de FAX</b> (306) 975-5397
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Environment & Climate Change Canada PNLET Science & Technology Branch 5320-122 Street NW Edmonton AB T6H 3S5	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada/Réception  
des soumissions Travaux publics et Services  
gouvernementaux Canada  
Government of Canada Building  
101 - 22nd Street East  
Suite 110  
Saskatoon  
Saskatche  
S7K 0E1

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Statement of Requirement**

The Prairie & Northern Laboratory for Environmental Testing of Environment Canada has a requirement for the supply, delivery and installation of one Carbon Analyzer including components and accessories.

The requirement is detailed under Article 6.2 of the resulting contract clauses.

### **1.2 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.

### **1.3 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>) 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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### **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.

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

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the 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 Saskatchewan.

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)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (1 hard copy)

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

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

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

#### Section I: Technical Bid

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

#### Section II: Financial Bid

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

##### 3.1.1 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.

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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.

### 3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

### Section III: Certifications

Bidders must submit the certifications and additional information 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

##### 4.1.1.1 Mandatory Technical Criteria

Refer to Annex A – Statement of Requirement.

#### 4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price

### 4.2 Basis of Selection

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

## 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.

Solicitation No. - N° de l'invitation  
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Client Ref. No. - N° de réf. du client  
K4E21-160009

Amd. No. - N° de la modif.  
File No. - N° du dossier  
STN-6-39018

Buyer ID - Id de l'acheteur  
stn203  
CCC No./N° CCC - FMS No./N° VME

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

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, 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 – Required Documentation**

In accordance with the *Ineligibility and Suspension Policy* (<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) website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

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**

There is no security requirement applicable to the Contract.

### **6.2 Statement of Requirement**

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

### **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) (<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 SACC Manual Clause**

K0031C (2016-01-28), 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 location 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.

All other provisions of the warranty section remain in effect.

### **6.4 Delivery Date**

All the deliverables must be received on or before March 15, 2017.

The equipment must be delivered by March 1, 2017.

#### **6.4.1 Delivery Points**

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

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Client Ref. No. - N° de réf. du client  
K4E21-160009

Amd. No. - N° de la modif.  
File No. - N° du dossier  
STN-6-39018

Buyer ID - Id de l'acheteur  
stn203  
CCC No./N° CCC - FMS No./N° VME

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## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Shannon McDonald  
Title: Procurement Officer  
Public Works and Government Services Canada  
Acquisitions Branch  
Directorate: Acquisitions  
Address: #110, 101-22<sup>nd</sup> Street West  
Saskatoon SK S7K 0E1  
Telephone: 306-251-2684  
Facsimile: 306-975-5397  
E-mail address: Shannon.mcdonald@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 Project Authority

The Project Authority for the Contract is: ***(To be provided at contract award.)***

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
  
Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
E-mail address: \_\_\_\_\_

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

### 6.5.3 Contractor's Representative

***(To be completed by bidder)***

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
  
Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
E-mail address: \_\_\_\_\_

## **6.6 Payment**

### **6.6.1 Basis of Payment – Firm Lot Price**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a *firm lot price*, as specified in Annex B – Basis of Payment for a cost of \$ \_\_\_ (*To be determined 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 SACC Manual Clauses**

H1000C (2008-05-12), Single Payment

### **6.6.3 Electronic Payment of Invoices – Contract (To be determined at Contract Award)**

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

- a. Direct Deposit (Domestic and International);

## **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 following address for certification and payment.  
Environment & Climate Change Canada  
Attn: D. Challencombe  
867 Lakeshore Road  
Burlington, ON L7S 1A1

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 Saskatchewan.

Solicitation No. - N° de l'invitation  
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Amd. No. - N° de la modif.  
File No. - N° du dossier  
STN-6-39018

Buyer ID - Id de l'acheteur  
stn203  
CCC No./N° CCC - FMS No./N° VME

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#### **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 general conditions 2010A (2016-04-04);
- (c) Annex A, Statement of Requirement;
- (d) Annex B – Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*)

#### **6.11 SACC Manual Clauses**

A9068C (2010-01-11), Government Site Regulations  
B1501C (2006-06-16), Electrical Equipment  
B7500C (2006-06-16), Excess Goods  
G1005C (2016-01-28), Insurance - No Specific Requirement

## ANNEX A - STATEMENT OF REQUIREMENT

### REQUIREMENT:

The Department of Environment and Climate Change Canada (Prairie & Northern Laboratory for Environmental Testing (PNLET) in Edmonton) has a requirement for the supply, delivery, and installation of one Carbon Analyzer including components and accessories.

### OBJECTIVE/BACKGROUND:

The Carbon Analyzer is used for the quantitative analysis of Total Carbon, Total Inorganic Carbon and Total Organic Carbon in environmental samples such as water, wastewater, industrial and municipal effluents and contaminated soils, sediments and other solid materials for the purpose of enforcement of Environment and Climate Change Canada regulations and guidelines. The current system has reached the end of its service life with service costs becoming higher and downtime increasing. This situation is unsuitable for PNLET to fulfil its mandate and deliver results for EC Enforcement Branch.

The supplied Carbon Analyzer System must include all parts, equipment and software necessary for analysis. Upon completion of the on-site installation, testing and commissioning of the system, the inspection and acceptance will be done to the satisfaction of the Project Authority.

The supplier must include a minimum of a one-year on-site parts and labor warranty/maintenance agreement on all components. Warranty includes supplier's travel costs.

### DELIVERY:

All equipment must be delivered on or before March 1, 2017. Installation, testing and training must be completed by March 15, 2017. Delivery to the following location:

Environment & Climate Change Canada  
PNLET Science & Technology Branch  
5320-122 Street NW  
Edmonton AB T6H 3S5

### Carbon Analyzer System

The Carbon Analyzer System must consist of, but not be limited to, the following major components, complete with all software/hardware, interfacing, training and warranty necessary for a fully integrated system:

- 1) Total Carbon Module
- 2) Solids Boat Sampler
- 3) Operating / Data System: Software
- 4) Operating / Data System: Hardware
- 5) Documentation
- 6) System Implementation and Training
- 7) Service & Support

## COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

A complete list of the minimum mandatory performance specifications are detailed below in the "Compliance Matrix". Bidders are to clearly demonstrate compliance with each mandatory specification.

1. Bidders **must** show compliance by addressing each performance specification in the Compliance Matrix, whether the product offered "meets" or "doesn't meet".
2. Bidders are requested to indicate how they meet each performance specification by recording this information under the Performance Specification Offered column in the Compliance Matrix.
3. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Compliance Matrix for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
4. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
5. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
6. Failure to meet each mandatory performance specification will result in the bid being deemed non-responsive, and be given no further consideration.

**COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:**

Requirement:	Manufacturer Offered:	Model number Offered#:
Carbon Analyzer System		

Item #	Performance Specification	Status (M) Mandatory	Performance Specification Met? Indicate either Yes/No	Performance Specification Offered: Bidder should indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents.
<b>1</b>	<b>Total Carbon Module:</b>				
1.1	The Carbon Analyzer must be capable of analyzing in the following modes: <b>TOC Modes:</b> Total Organic Carbon (TOC), Nonpurgeable Organic Carbon (NPOC), Inorganic Carbon (IC), Total Carbon (TC)	<b>M</b>			
1.2	The Carbon Analyzer must utilize high temperature catalyst assisted oxidative combustion to perform Total Carbon (TC) and Total Inorganic Carbon (TIC) analysis. TOC values are calculated by the difference between TC and TIC values.	<b>M</b>			
1.3	The Carbon Analyzer must use a Non Dispersive Infrared detector (NDIR).	<b>M</b>			
1.4	The Carbon Analyzer must have the ability to allow sample introduction with an Autosampler that is fully computer controlled.	<b>M</b>			
1.5	The Autosampler must be capable of auto-rinsing.	<b>M</b>			
1.6	The Carbon Analyzer must be capable of automatic pretreatment in the system for acidification and purging of samples.	<b>M</b>			
1.7	The Carbon Analyzer must have the capability of Auto-Dilution of over-range samples.	<b>M</b>			
1.8	The Carbon Analyzer must be	<b>M</b>			

	able to provide automatic multiple calibration points from a single standard with a fixed volume injection. Calibration ranges must be continuous and not fixed to ensure an optimal measuring range.				
1.9	The Carbon Analyzer must have a minimum measuring range from 100 ppb to 25,000 ppm using at least 5 selectable ranges.	<b>M</b>			
1.10	The Carbon Analyzer must have a reproducibility of 2.0% of full scale or 3.0% RSD over 3 replicates.	<b>M</b>			
1.11	The Carbon Analyzer must have a sample injection volume controlled by software.	<b>M</b>			
1.12	The Carbon Analyzer must have a maximum sample injection volume of 2 mL or less.	<b>M</b>			
<b>2</b>	<b>Solids Boat Sampler:</b>				
2.1	The Boat Sampler must have an Autosampler with capacity of a maximum sample size of 1 gram or greater for solid samples.	<b>M</b>			
2.2	The Boat Sampler must have automatic balance interfacing.	<b>M</b>			
2.3	The Boat Sampler must have either re-usable quartz or, ceramic or platinum crucibles.	<b>M</b>			
<b>3</b>	<b>Operating / Data System: Software</b>				
3.1	Operating system: The computer's operating system must be Microsoft Windows 7 Professional or greater, 64 bit.	<b>M</b>			
3.2	Instrument control: Full control of instrumentation operation including automated system start up and shut down, initial instrument calibration, parameter optimization, routine operations, calibration, data acquisition and processing, and report generation.	<b>M</b>			

3.3	The software must provide multi-tasking: Sample position, replicate results, statistics and sample peaks must be clearly viewed on one screen while analyzing samples. Complete TOC oxidation must be verified by real-time peak integration. Real time viewing of the data during acquisition, displaying transient and continuous signal profiles and spectral profiles in real time. The operator must be able to change the display format of the data as it is being acquired.	<b>M</b>			
3.4	Graphical display: Must provide full graphical instrument control windows that will display system parameters concurrently in real time.	<b>M</b>			
3.5	Diagnostic tools: Must provide internal diagnostics including error checking and a complete fault log.	<b>M</b>			
3.6	Calibration tool: Must provide multiple point calibration tables.	<b>M</b>			
3.7	Sample data and calibration curve results must be stored on the PC's hard drive and retrievable from the PC Software for post analysis recalculations.	<b>M</b>			
3.8	Software help: Must provide a comprehensive help menu within the software including hypertext links and index. This will also include a digital copy of the system manual such as a PDF version.	<b>M</b>			
3.9	Data processing: Must provide full data processing and reprocessing capabilities using different calibration curves to aid in data management.	<b>M</b>			
3.10	Must have automatic data archiving into date stamped folders.	<b>M</b>			
3.11	Data analysis: Must export	<b>M</b>			

	data batches to standard data file types (Excel compatible) that could be used to upload the data to a LIMS (Laboratory Information Management System) for archiving and final reporting.				
<b>4</b>	<b>Operating / Data Computer System: Hardware</b>				
4.1	The computer must feature at least an Intel core i5 processor or equivalent operating at 2.5 GHz or higher.	<b>M</b>			
4.2	Must have 8 GB (or greater) RAM	<b>M</b>			
4.3	Must be equipped with two 1 TB (or greater) hard drives.	<b>M</b>			
4.4	Must have a 16x (or greater) DVD-/+r RW drive.	<b>M</b>			
4.5	The computer must be equipped with a minimum 24" LCD monitor.	<b>M</b>			
<b>5</b>	<b>Documentation:</b>				
5.1	The system must be supplied with full documentation including an operator's manual, administration and maintenance manual, spare parts catalog and a comprehensive applications handbook specifically written for the system being offered.	<b>M</b>			
5.2	Standard Operating Procedures (SOP's) must be equivalent to EPA 415.1, 415.3 and/or Standard Methods 5310B.	<b>M</b>			
<b>6</b>	<b>System Implementation and Training:</b>				
6.1	Instrument system supplied must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada (SCC)	<b>M</b>			
6.2	Must meet North American electrical standards. (After contract award supplier will be contacted to discuss specify site requirements including bench space,	<b>M</b>			

	temperature operating range, electrical connections, voltages and plug types meeting North American electrical standards, gases required, and any special requirements to ensure a smooth installation process.)				
6.3	On-site installation, testing, commissioning must be completed by March 15, 2017. Upon completion of the on-site installation, testing and commissioning of the system, the inspection and acceptance will be done at destination to the satisfaction of the Project Authority. Performance verification testing will be ----performed by the analysis of test samples provided by PNLET to demonstrate accuracy within ±10% of target values and stability of ±3% over the course of a 20 minute run.	<b>M</b>			
6.4	A minimum of 3 days on-site training, Monday through Friday from but not restricted to 0830 to 1630 hours. Travel, meals and accommodation for the trainer must be provided by the supplier and is included in the cost.	<b>M</b>			
6.5	The system must be supplied with at least one set of consumable parts and tool kit necessary for maintaining operation.	<b>M</b>			
6.6	Provide CD/DVD with instrument or on-line continuing training.	<b>M</b>			
<b>7</b>	<b>Service &amp; Support:</b>				
7.1	On-site service technicians must be available within 7 business days of a service request during the 1 year warranty period.	<b>M</b>			
7.2	Telephone support service must be available to the end user during regular business hours and must be free of charge during the 1 year warranty period.	<b>M</b>			

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File No. - N° du dossier  
STN-6-39018

Buyer ID - Id de l'acheteur  
stn203  
CCC No./N° CCC - FMS No./N° VME

### ANNEX B – Basis of Payment

- Prices quoted must be **Firm Lot Prices**, FOB Destination including all delivery, offloading charges and installation, in accordance with the requirements identified in Annex A – Statement of Requirement.
- Prices quoted are to remain firm for the duration of the Contract.
- Prices are to be quoted in Canadian Funds, Prices quoted do not include GST/HST, however, GST/HST will be added as a separate item on any invoices issued against this contract.

Item	Description	Qty	Unit of Issue	Firm Unit Price (CAD Funds)
1	Delivery, offloading and installation of a Carbon Analyzer System in accordance with the specifications listed in the Annex A Statement of Requirement.	1	Lot	\$ _____
			<b>Total Evaluated Bid Price</b>	\$ _____

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

### **ELECTRONIC PAYMENT INSTRUMENTS**

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

( ) Direct Deposit (Domestic and International);