

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**1713 Bedford Row**  
**Halifax, N.S./Halifax, (N.É.)**  
**B3J 1T3**  
**Bid Fax: (902) 496-5016**

**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><br>LEAD ANALYZER                                                                                                                                                                                                                     |                                                                                   |
| <b>Solicitation No. - N° de l'invitation</b><br>W355B-131362/A                                                                                                                                                                                            | <b>Date</b><br>2012-10-23                                                         |
| <b>Client Reference No. - N° de référence du client</b><br>W355B-13-1362                                                                                                                                                                                  |                                                                                   |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$HAL-409-8798                                                                                                                                                                                  |                                                                                   |
| <b>File No. - N° de dossier</b><br>HAL-2-69218 (409)                                                                                                                                                                                                      | <b>CCC No./N° CCC - FMS No./N° VME</b>                                            |
| <b>Solicitation Closes - L'invitation prend fin</b><br><b>at - à 02:00 PM</b><br><b>on - le 2012-12-05</b>                                                                                                                                                | <b>Time Zone</b><br><b>Fuseau horaire</b><br>Atlantic Daylight Saving<br>Time ADT |
| <b>F.O.B. - F.A.B.</b><br><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><br>Taylor, Kathie                                                                                                                                                                             | <b>Buyer Id - Id de l'acheteur</b><br>hal409                                      |
| <b>Telephone No. - N° de téléphone</b><br>(902) 496-5510 ( )                                                                                                                                                                                              | <b>FAX No. - N° de FAX</b><br>(902) 496-5016                                      |
| <b>Destination - of Goods, Services, and Construction:</b><br><b>Destination - des biens, services et construction:</b><br>DEPARTMENT OF NATIONAL DEFENCE<br>FMF CAPE SCOTT, HMC DOCKYARD<br>BLDG D-40 DR 8<br>HALIFAX<br>NOVA SCOTIA<br>B3K5X5<br>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><br>See Herein                                                                                                                                                                                                      | <b>Delivery Offered - Livraison proposée</b> |
| <b>Vendor/Firm Name and Address</b><br><b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>                                                                                                                                                       |                                              |
| <b>Telephone No. - N° de téléphone</b><br><b>Facsimile No. - N° de télécopieur</b>                                                                                                                                                                             |                                              |
| <b>Name and title of person authorized to sign on behalf of Vendor/Firm</b><br><b>(type or print)</b><br><b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b><br><b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b> |                                              |
| <b>Signature</b>                                                                                                                                                                                                                                               | <b>Date</b>                                  |

**Issuing Office - Bureau de distribution**  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 3C9

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Solicitation No. - N° de l'invitation

W355B-131362/A

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

W355B-13-1362

Amd. No. - N° de la modif.

File No. - N° du dossier

HAL-2-69218

Buyer ID - Id de l'acheteur

hal409

CCC No./N° CCC - FMS No/ N° VME

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## 11. SACC Manual Clauses

### List of Annexes:

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

Department of National Defence, Maritime Forces Atlantic, have a requirement for two (2) Hand Held Lead Analyzers, as fully detailed in Annex A.

### **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**

### **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 (2012-07-11) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The text under Subsection 4 of Section 01 - Code of Conduct and Certifications - Bid of 2003 referenced above is replaced by:

Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide such a list within the required time frame will

render the bid non-responsive. Bidders must always submit the list of directors before contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaire-forms-eng.html>) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

The text under Subsection 5 of Section 01 - Code of Conduct and Certifications - Bid of 2003 referenced above is replaced by:

The Bidder must diligently maintain the list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid, and must also provide Canada, when requested, with the corresponding Consent Forms. The Bidder will also be required to diligently maintain the list and when requested, provide Consent Forms during the period of any contract arising from this bid solicitation.

## **1.1 SACC Manual Clauses**

### **B3000T Equivalent Products (2006-06-16)**

#### **2. Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

#### **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

#### **4. Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### **1. Bid Preparation Instructions**

Section I: Technical Bid (two hard copies)

Section II: Financial Bid (one hard copy)

Section III: Certifications (one hard copy)

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

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

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

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

#### **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 Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

## Section III: Certifications

Bidders must submit the certifications required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### 1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### 1.1 Technical Evaluation

##### 1.1.1 Mandatory Technical Criteria - as fully detailed in Annex "A"

#### 1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB destination, Canadian customs duties and excise taxes included.

### 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**

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

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The

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

## **1. Code of Conduct Certifications - Certifications Required Precedent to Contract Award**

**1.1 Bidders should provide, with their bids or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.**

The Contracting Authority may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

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

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

### **2.1 Federal Contractors Program - Certification**

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

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



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

The Bidder or the member of the joint venture:

(a) ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;

(b) ( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;

(c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;

(d) ( ) has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: \_\_\_\_\_.

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

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

### 3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### 3.1 General Conditions

2010A (2012-07-16), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 4. Term of Contract

#### 4.1 Delivery Date

**Delivery is mandatory on or before March 29, 2013.**

Please provide best delivery date: \_\_\_\_\_.

### 5. Authorities

#### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Kathie Taylor  
Supply Officer  
Public Works and Government Services Canada  
1713 Bedford Row  
Halifax, NS B3J 1T3  
Telephone: (902) 496-5510

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Facsimile: (902) 496-5016

E-mail address: kathie.taylor@pwgsc.gc.ca

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

## 5.2 Project Authority

The Project Authority for the Contract is: (to be inserted at contract award)

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

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

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

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

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

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

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

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

## 5.3 Contractor's Representative (please complete)

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

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

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

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

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

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

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

## 6. Payment

### 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 price" as specified in Annex B for a cost of \$ \_\_\_\_\_. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

### 6.2 Method of Payment

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

## 7. Invoicing Instructions

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.

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

## 8. Certifications

8.1 Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## 9. Applicable Laws

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

## 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 (2012-07-16), Goods (Medium Complexity)
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_ (insert date of bid)

## 11. SACC Manual Clauses

G1005C - Insurance Requirements (2008-05-12)

### Delivery:

Delivery is Delivered Duty Paid (DDP) Incoterms 2000. The contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes to the destination.

## Annex A Requirement

### Hand Held Lead Analyzer, Quantity Two (2)

General Description: Hand held lead detection system that is portable, reliable, and capable of measuring many different materials in many different situations. Delivery is MANDATORY on or before March 29, 2013. If delivery cannot be met, the contract will be terminated.

### Minimum Mandatory Specifications:

#### 1. General Requirement:

1. Two Li-ion rechargeable battery packs
2. Minimum 6-8 hour battery life
3. Battery charger 110VAC with fast recharge time
4. Waterproof carrying case
5. Shielded belt holster
6. RS-232 cable for downloading
7. NDT software suite
8. MS Excel compatible software
9. Data collected must be tamper proof
10. NIST must be supplied for quality control testing
11. Various data input types including barcode scanner, qwerty keyboard, and pick lists
12. Self-contained with touch-screen display
13. Built from injection moulded Lexan plastic "or equivalent" and sealed against dust, moisture and other contamination
14. Include spectrum analysis software

#### 2. Radiation & Safety:

15. 109 Cd source
16. 40 mCi radio scope source
17. Comply with ALARA
18. Conform to 49 CFR 173.421 and NOS UN2911
19. Pressure activated proximity sensor on analyzer
20. Alert user and bystanders that unit shutter is open

#### 3. Operation and Compliance:

21. Operator Training for 10 Safety Employees over two (2) days of training - five (5) people per day. Training will take place in house at FMF Cape Scott.

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22. Provide real-time data output in ASCII format
  23. Wireless capabilities
  24. Indicate positive/negative thresholds for all test modes and types of substances.
  25. Indicate that there are no inconclusive readings in any mode or any type of substrate
  26. Consistently achieve  $\pm 0.2$  mg/cm<sup>2</sup> on a NIST 1.02mg/ cm<sup>2</sup> lead-paint standard in 20 source-seconds.
  27. Capable of detecting K-shell and L-shell energies via dual energy excitation
  28. Self calibrate at user's request/prompting
  29. Regulate temperature of X-ray detectors
  30. Indicate the degree which lead is present on surface or in layers of non-lead paint
  31. Perform automated K-shell and L-shell detection simultaneously
  32. Include multi-element analysis in soil samples (Cr, Mn, Fe, Co, Ni, Cu, Zn, Mo, Hg, and Pb)
  33. Detect less than 10 $\mu$ g/wipe using lead dust wipe analysis
  34. Comply with OSHA Method OSS-1
  35. Upgradeable to perform air filter analysis and comply with NIOSH Method 7702 and OSHA Method OSA-1
  36. Battery charger 120 VAC
  37. Weight: Maximum five pounds (5lbs./2.3kg)
  38. Must have a minimum one (1) year warranty
  39. Supply three (3) copies of material and maintenance manuals. Contents of the binder shall contain at a minimum: equipment and material specifications, CRN and Mill specifications from all equipment and piping/fittings and related information, warranties and guarantees, calibration and commissioning documentation, copies of any permits and inspection certificates, supply copies of all drawings, calculations and certifications for the receiver and assembled unit. The FMFCS owner reserves the right to add to this list as deemed appropriate
  40. The equipment shall be certified by an acceptable Certification Organization. The following Certification Organizations are acceptable. The electrical control must bear a label from one of these organizations in order to be recognized as approved.
    - A. Canadian Standards Association (CSA)
    - B. Entela
    - C. Intertek Testing Services
    - D. ETL Testing Laboratories
    - E. Warnock Hersey (WH)
    - F. Underwriters Laboratories of Canada (ULC)
    - G. Underwriters Laboratories Inc. (UL)
    - H. MET Laboratories Inc. (MET)
    - I. TUV Rheinland of Nova America
    - J. Quality Auditing Institute (QAI)

K. TUV America Inc.

L. Factory Mutual (FM) Approvals

M. Omni-Test Laboratories Inc.

N. Curtis-Straus LLC

Note: Labels from all Organizations above (with the exception of CSA and ULC), must be accompanied by a small 'c' at the eight o'clock position or Canadian Standard number to indicate the product has been certified to the Canadian Standard.

O. Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is 'field' inspected and labelled (complete with verification documentation) by the Canadian Standards Association (CSA), Cantest Ltd, Entela, Intertek Testing Services, MET Laboratories, TUV SUD America Inc, Underwriters Laboratories of Canada, Electrical Safety Authority (ESA), or QPS Evaluation Services Inc. under the Special Inspection Program. This inspection must take place before equipment delivery.

**Mandatory Accessories:**

1. Portable test stand
2. Soil kit
3. Dust wipe kit



## Annex B Basis of Payment

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB destination, Canadian Customs Duties and Excise Taxes included.

Delivery is Delivered Duty Paid (DDP) Incoterms 2000. The contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes to the destination.

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

| <b>Item</b> | <b>Description</b>                                    | <b>U of I</b> | <b>Qty</b> | <b>Unit Price</b> | <b>Extended Price</b> |
|-------------|-------------------------------------------------------|---------------|------------|-------------------|-----------------------|
| 1.          | Hand-held Lead Analyzer, as fully detailed in Annex A | ea            | 2          | \$_____           | \$_____               |
| 2.          | Portable Test Stand                                   | ea            | 2          | \$_____           | \$_____               |
| 3.          | Soil Kit                                              | ea            | 2          | \$_____           | \$_____               |
| 4.          | Dust Wipe Kit                                         | ea            | 2          | \$_____           | \$_____               |
|             | <b>TOTAL</b>                                          |               |            |                   | <b>\$_____</b>        |

**Make/Model Offered:** \_\_\_\_\_

## ANNEX "C"

### CROSS-REFERENCE DATA

Bidders are requested to provide cross-reference below to identify the page(s) where each mandatory minimum specification can be demonstrated in their technical documentation provided with bid.

|     | Minimum Mandatory Requirements                                                                                                                          | Cross Reference Page # |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1.  | Two Li-ion rechargeable battery packs                                                                                                                   |                        |
| 2.  | 6-8 hour battery life                                                                                                                                   |                        |
| 3.  | Battery charger 110VAC with fast recharge time                                                                                                          |                        |
| 4.  | Waterproof carrying case                                                                                                                                |                        |
| 5.  | Shielded belt holster                                                                                                                                   |                        |
| 6.  | RS-232 cable for downloading                                                                                                                            |                        |
| 7.  | NDT software suite                                                                                                                                      |                        |
| 8.  | MS Excel compatible software                                                                                                                            |                        |
| 9.  | Data collected must be tamper proof                                                                                                                     |                        |
| 10. | NIST must be supplied for quality control testing                                                                                                       |                        |
| 11. | Various data input types including barcode scanner, qwerty keyboard, and pick lists                                                                     |                        |
| 12. | Self-contained with touch-screen display                                                                                                                |                        |
| 13. | Built from injection moulded Lexan plastic "or equivalent" and sealed against dust, moisture and other contamination                                    |                        |
| 14. | Include spectrum analysis software                                                                                                                      |                        |
| 15. | 109 Cd source                                                                                                                                           |                        |
| 16. | 40 mCi radio scope source                                                                                                                               |                        |
| 17. | Comply with ALARA                                                                                                                                       |                        |
| 18. | Conform to 49 CFR 173.421 and NOS UN2911                                                                                                                |                        |
| 19. | Pressure activated proximity sensor on analyzer                                                                                                         |                        |
| 20. | Alert user and bystanders that unit shutter is open                                                                                                     |                        |
| 21. | Operator Training for 10 Safety Employees over two (2) days of training - five (5) people per day. Training will take place in house at FMF Cape Scott. |                        |
| 22. | Provide real-time data output in ASCII format                                                                                                           |                        |
| 23. | Wireless capabilities                                                                                                                                   |                        |
| 24. | Indicate positive/negative thresholds for all test modes and types of substances                                                                        |                        |
| 25. | Indicate that there are no inconclusive readings in any mode or any type                                                                                |                        |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|     | of substrate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 26. | Consistently achieve $\pm 0.2$ mg/cm <sup>2</sup> on a NIST 1.02mg/ cm <sup>2</sup> lead-paint standard in 20 source-seconds                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 27. | Capable of detecting K-shell and L-shell energies via dual energy excitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |
| 28. | Self calibrate at user's request/prompting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| 29. | Regulate temperature of X-ray detectors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 30. | Indicate the degree which lead is present on surface or in layers of non-lead paint                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
| 31. | Perform automated K-shell and L-shell detection simultaneously                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 32. | Include multi-element analysis in soil samples (Cr, Mn, Fe, Co, Ni, Cu, Zn, Mo, Hg, and Pb)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| 33. | Detect less than 10µg/wipe using lead dust wipe analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| 34. | Comply with OSHA Method OSS-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| 35. | Upgradeable to perform air filter analysis and comply with NIOSH Method 7702 and OSHA Method OSA-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 36. | Battery charger 120 VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
| 37. | Weight: Maximum five pounds (5lbs./2.3kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 38. | Must have a minimum one (1) year warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| 39. | Supply three (3) copies of material and maintenance manuals. Contents of the binder shall contain at a minimum: equipment and material specifications, CRN and Mill Specifications from all equipment and piping/fittings and related information, warranties and guarantees, calibration and commissioning documentation, copies of any permits and inspection certificates, supply copies of all drawings, calculations and certifications for the receiver and assembled unit. The FMFCS owner reserves the right to add to this list as deemed appropriate.                                                                                                                                                             |  |
| 40. | <p>The equipment shall be certified by an acceptable Certification Organization. The following Certification Organizations are acceptable. The electrical control must bear a label from one of these organizations in order to be recognized as approved.</p> <ul style="list-style-type: none"> <li>A. Canadian Standards Association (CSA)</li> <li>B. Entela</li> <li>C. Intertek Testing Services</li> <li>D. ETL Testing Laboratories</li> <li>E. Warnock Hersey (WH)</li> <li>F. Underwriters Laboratories of Canada (ULC)</li> <li>G. Underwriters Laboratories Inc. (UL)</li> <li>H. MET Laboratories Inc. (MET)</li> <li>I. TUV Rheinland of Nova America</li> <li>J. Quality Auditing Institute (QAI)</li> </ul> |  |

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|  | <p>K. TUV America Inc.<br/>L. Factory Mutual (FM) Approvals<br/>M. Omni-Test Laboratories Inc.<br/>N. Curtis-Straus LLC</p> <p>Note: Labels from all Organizations above (with the exception of CSA and ULC), must be accompanied by a small 'c' at the eight o'clock position or Canadian Standard number to indicate the product has been certified to the Canadian Standard.</p> <p>O. Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is 'field' inspected and labelled (complete with verification documentation) by the Canadian Standards Association (CSA), Cantest Ltd, Entela, Intertek Testing Services, MET Laboratories, TUV SUD America Inc, Underwriters Laboratories of Canada, Electrical Safety Authority (ESA), or QPS Evaluation Services Inc. under the Special Inspection Program. This inspection must take place before equipment delivery.</p> |  |
|  | <p>Mandatory Accessories:</p> <ol style="list-style-type: none"> <li>1. Portable test stand</li> <li>2. Soil kit</li> <li>3. Dust wipe kit</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

**Make/Model Offered:** \_\_\_\_\_