

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**PO Box 1408, Room 100**  
**167 Lombard Ave.**  
**Winnipeg**  
**Manitoba**  
**R3C 2Z1**  
**Bid Fax: (204) 983-0338**

**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> FTIR Spectroscopy Systems	
<b>Solicitation No. - N° de l'invitation</b> W7702-135597/A	<b>Date</b> 2012-12-21
<b>Client Reference No. - N° de référence du client</b> DRDC	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$WPG-016-8350	
<b>File No. - N° de dossier</b> WPG-2-35278 (016)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2013-02-04</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> Hall, Marlene	<b>Buyer Id - Id de l'acheteur</b> wpg016
<b>Telephone No. - N° de téléphone</b> (204) 984-6423 ( )	<b>FAX No. - N° de FAX</b> (204) 983-7796
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE Defence R&D Canada Suffield Bldg 560 Receiving Ralston Alberta T0J 2N0 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada - Western  
Region  
PO Box 1408, Room 100  
167 Lombard Ave.  
Winnipeg  
Manitoba  
R3C 2Z1

<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>

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## **REQUEST FOR PROPOSAL FTIR SPECTROSCOPY SYSTEMS**

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## PART 1 - GENERAL INFORMATION

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

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

### 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 (2012-11-09) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### 1.1 SACC Manual Clauses

B1000T      Condition of Material      (2007-11-30)

### 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 **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 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 **Manitoba**.

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

### PART 3 - BID PREPARATION INSTRUCTIONS

#### 1. Bid Preparation Instructions

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

Section I: Technical Bid (3 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 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.

**1.1 Exchange Rate Fluctuation**

C3011T (2010-01-11), Exchange Rate Fluctuation

**Section III: Certifications**

Bidders must submit the certifications required under Part 5.

**PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION****1. Evaluation Procedures**

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

**1.1 Technical Evaluation****1.1.1 Mandatory Technical Criteria**

- (a) Ability to perform the full scope of work described in Annex A, Requirement;
- (b) Provision of pricing as requested in Annex B, Basis of Payment.

**1.2 Financial Evaluation**

A0222T (2010-01-11), Evaluation of Price

**2. Basis of Selection****2.1 Basis of Selection - Mandatory Technical Criteria (A0031T 2010-08-16)**

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 and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation 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, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

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

#### **1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have 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 comply will render the bid non-responsive. Providing the required names is a mandatory requirement for 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/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

## 2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will 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 (A3031T 2010-08-16)

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.

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.

### 2.2 Former Public Servant - Competitive Requirements (A3025T 2012-11-19)

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

## Definitions

For the purposes of this clause, *"former public servant"* is any former member of a department as defined in the *Financial Administration Act*, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- (a) an individual;
- (b) an individual who has incorporated;
- (c) a partnership made of former public servants; or
- (d) a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means, a pension or annual allowance paid under the *Public Service Superannuation Act* (PSSA), R.S., 1985, c.P-36, and any increases paid pursuant to the *Supplementary Retirement Benefits Act*, R.S., 1985, c.S-24 as it affects the PSSA. It does not include pensions payable pursuant to the *Canadian Forces Superannuation Act*, R.S., 1985, c.C-17, the *Defence Services Pension Continuation Act*, 1970, c.D-3, the *Royal Canadian Mounted Police Pension Continuation Act*, 1970, c.R-10, and the *Royal Canadian Mounted Police Superannuation Act*, R.S., 1985, c.R-11, the *Members of Parliament Retiring Allowances Act*, R.S., 1985, c.M-5, and that portion of pension payable to the *Canada Pension Plan Act*, R.S., 1985, c.C-8.

## Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? **Yes ( ) No ( )**

If so, the Bidder must provide the following information, for all FPS in receipt of a pension, as applicable:

- (a) name of former public servant;
- (b) date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.



## Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program? **Yes ( ) No ( )**

If so, the Bidder must provide the following information:

- (a) name of former public servant;
- (b) conditions of the lump sum payment incentive;
- (c) date of termination of employment;
- (d) amount of lump sum payment;
- (e) rate of pay on which lump sum payment is based;
- (f) period of lump sum payment including start date, end date and number of weeks;
- (g) number and amount (professional fees) of other contracts subject to the restrictions of a work force reduction program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including the Goods and Services Tax or Harmonized Sales Tax.

## 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 under the "Requirement" at Annex "A".

### 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

2030 (2012-11-19), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

2035 (2012-11-19), General Conditions - Higher Complexity - Services, apply to and form part of the Contract

### **3.2 Supplemental General Conditions**

4001 (2010-08-16), Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

4003 (2010-08-16), Licensed Software, apply to and form part of the Contract.

4004 (2010-08-16), Maintenance and Support Services for Licensed Software, apply to and form part of the Contract.

## **4. Term of Contract**

### **4.1 Delivery Date**

All the deliverables must be received on or before the timelines specified in Annex A , Requirement.

## **5. Authorities**

### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Marlene Hall  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
100 - 167 Lombard Avenue  
Winnipeg, MB. R3C 2Z1

Telephone: 204-984-6423  
Fax: 204-983-7796  
E-mail address: marlene.hall@pwgsc-tpsgc.gc.ca

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

### **5.2 Project Authority**

The Project Authority for the Contract is: The Department of National Defence  
DRDC Suffield  
Ralston, Alberta CANADA

*A contact to be named at date of contract issuance.*

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

### 5.3 Contractor's Representative

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

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

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

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

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

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

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

## 6. Payment

### 6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s) (C0207C)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), as specified in Annex B, Basis of Payment for a cost of \$ \_\_\_\_\_ (*insert the amount at contract award*). Customs duties are excluded 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 Single Payment

SACC *Manual* clause H1000C(2008-05012) Single Payment

### 6.3 SACC *Manual* Clauses

C2000C	Taxes - Foreign-based Contractor	(2007-11-30)
C2605C	Canadian Customs Duties and Sales Tax	(2008-05-12)
	- Foreign Based Contractor	

## 7. Invoicing Instructions

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

## 8. Certifications

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 **Manitoba**.

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4001 (2010-08-16), Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16), Licensed Software;
- (d) the supplemental general conditions 4004 (2010-08-16), Maintenance and Support Services for Licensed Software;
- (e) the general conditions 2030 (2012-11-19), General conditions - Higher Complexity - Goods;
- (f) the general conditions 2035 (2012-11-19), General conditions - Higher Complexity - Services;
- (g) Annex A, Requirement
- (h) Annex B, Basis of Payment;
- (i) the Contractor's bid dated \_\_\_\_\_ (insert date of bid).

## 11. Defence Contract

SACC *Manual* clause A9006C (2012-07-16) Defence Contract

## 12. SACC Manual Clauses

A9062C	Canadian Forces Site Regulations	2011-05-16
B1501C	Electrical Equipment	2006-06-16
B7500C	Excess Goods	2006-06-16
C5201C	Prepaid Transportation Costs	2008-05-12
D0018C	Delivery and Unloading	2007-11-30
D5328C	Inspection and Acceptance	2007-11-30
G1005C	Insurance	2008-05-12

## ANNEX "A" REQUIREMENT

### 1 FTIR SPECTROSCOPY SYSTEMS:

- 1.1 The Department of National Defence (DND), Defence Research and Development Canada (DRDC) Suffield in Ralston, Alberta has a requirement for the supply and delivery of three (3) Fourier transform infrared (FTIR) systems to support national efforts in Chemical Biological Radiological Nuclear and Explosive (CBRNE) defense.
- 1.2 Each FTIR system will be composed of a FTIR optical bench, an Attenuated Total Reflectance (ATR) sampling accessory, a transmission accessory and associated FTIR spectral libraries.
- 1.3 The successful proposal must include installation, validation and a minimum of three days on-site instrument familiarization. Validation of the systems will include ATR-FTIR performance acceptance using DRDC Suffield supplied test compounds. The three systems may be located at up to three different locations within Canada.
- 1.4 The successful proposal must include warranty/service agreement on all three systems. The period of this agreement will be for four years and will include 1 preventive maintenance visit per year per system. Please note that the three systems may be located at up to three different locations within Canada. Warranty/service agreement must include parts, labor, transportation and accommodation costs for on-site visits.

A complete list of the minimum mandatory requirements are detailed herein under article 4, Minimum Mandatory Performance Specifications.

### 2. DELIVERY, INSTALLATION, TRAINING, WARRANTY:

- 2.1 The scope of this work includes mandatory delivery, installation, validation and a minimum of three (3) days on-site instrument familiarization for all three (3) systems on or before March 31, 2013. **The best delivery date Contractor can offer is \_\_\_\_\_ (ARO).**
- 2.2 Bidder must provide details of warranty/service agreement coverage offered: for example : warranty/service agreement will include on-site service visits with a maximum \_\_\_hr response, engineer labour, one (1) scheduled preventative maintenance visit per year, factory-certified replacement parts, software updates and notifications, priority status for technical support inquiries with response within \_\_\_ minutes, subscription to e-support online technical resources. Warranty/service agreement must include parts, labor, transportation and accommodation costs for on-site visits.

### 3 MANDATORY PERFORMANCE SPECIFICATIONS - INSTRUCTIONS

- 3.1 A complete list of the mandatory requirements are detailed below in the Minimum Mandatory Performance Specifications Table. It is MANDATORY for Bidders to complete and submit the table with their proposal.
- 3.2 Bidders are requested to provide documentation to demonstrate compliance to each mandatory criterion listed in the Minimum Mandatory Performance Specifications Table. Technical documentation such as specification sheets, technical brochures, and photographs or illustrations should provide adequate detail to substantiate that the instrument offered meets the technical

requirements. It is the Bidders responsibility to ensure that the submitted documentation provides adequate detail to prove that the proposed product(s) meet the requirements of the technical specifications. If specific published technical documentation is not available, the bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.

- 3.3 Failure to meet any of the mandatory performance specifications listed in the table will render your proposal non-compliant and will be given no further consideration.

### Minimum Mandatory Specifications Table

FTIR Optical Bench	Specification	Met	Not Met	Comments, Technical Reference
1. Dimensions	Less than 40cm W x 40cm D x 30cm H			
2. Power Consumption	Less than 100W			
3. Weight	Less than 20kg			
4. Electrical Specifications	100-240VAC, 50-60Hz			
5. Beam Splitter	KBr/Ge			
6. Mid IR Source	Air cooled with no external utilities required other than power. Each system to include one spare source			
7. Interferometer	Mechanical bearing			
8. Resolution	1 cm <sup>-1</sup>			
9. Detector	DTGS			
10. Detector spectral range	4000-500 cm <sup>-1</sup>			
11. Detector spectral range	4000-500 cm <sup>-1</sup>			
12. Wavenumber precision	Less than 1 cm <sup>-1</sup>			
13. Laser	13.1 Temperature controlled diode laser. 13.2 Each system to include one spare laser.			
14. Optical Bench	14.1 Sealed and desiccated optical bench. Optical bench must be purgeable. 14.2 User replaceable desiccant packs. Includes two spare packs.			
15. Software	15.1 System to include software for collection, processing and analysis of FTIR data. Software must include the ability to export FTIR data at a minimum in CSV and SPC formats.			

	<b>15.2</b> Software must provide the ability to independently acquire, display, manipulate and process background and sample spectra. Software must allow user selection of background spectra used for ratioing against user selected sample spectra.			
<b>16. Computer and Monitor</b>	Included computer must be able to control the FTIR optical bench and run supplied applications. System must collect process and store FTIR data files and include an external 3 Tbyte hard drive.			
<b>SAMPLING Accessories</b>	<b>Specification</b>	<b>Met</b>	<b>Not Met</b>	<b>Comments, Technical Reference</b>
<b>17. Single reflection diamond attenuated total reflectance (ATR)</b>	<p><b>17.1</b> Includes ATR accessory with lenses with a spectral range down to 500cm<sup>-1</sup>. System includes any required hardware for installing, aligning or operation of ATR accessory on optical bench.</p> <p><b>17.2</b> ATR top plate must be removable in order to load toxic samples in a fume hood.</p> <p><b>17.3</b> ATR top plate must be able to be decontaminated with methanolic potassium hydroxide solution.</p> <p><b>17.4</b> Includes a sealed sample cell with an air sensitive reactive anvil with Viton o-rings capable of work with highly toxic compounds including chemical warfare agents.</p> <p><b>17.5</b> System must include apparatus to test pressure seal of Viton o-ring.</p> <p><b>17.6</b> Includes additional replacement ATR top plate with sealed cell assembly.</p>			
<b>18. Transmission</b>	<p><b>18.1</b> Accessory must be able to accept 100mm gas cell and include mounting hardware for gas cell and standard transmission sample cells</p> <p><b>18.2</b> Gas cell with 100mm path length with user replaceable ZnSe windows. Includes one spare pair of ZnSe windows.</p>			
<b>19. Libraries</b>	<b>19.1</b> Includes software to import/export data and spectral libraries			

	<b>19.2</b> Includes software to create user library and search commercial and user libraries <b>19.3</b> Software to include applications for spectral interpretation and deconvolution of mixtures <b>19.4</b> Vapour Phase FTIR library with greater than 8500 spectra <b>19.5</b> Explosive Materials Library with greater than 900 spectra <b>19.6</b> ATR-FTIR Library with greater than 15,000 spectra			
<b>20. Warranty / service agreement</b>	Period of this agreement will be for four years and will include 1 preventive maintenance visit per year per system and include parts, labour, transportation and accommodation costs for on-site visits.			



## ANNEX B BASIS OF PAYMENT

**When completed, the Annex B will be considered as the Bidder's Financial Bid.** Bidder should identify the currency of financial bid.

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, including shipping and offloading charges, FOB destination, as specified below. Customs duties not included. GST, if applicable, is extra.

Prices quoted to be in Canadian or US Dollars (please specify).

1. Prices MUST include ALL costs associated with providing the goods in accordance with the Requirement, Annex A. GST, if applicable, is not included and is to be shown as a separate item on any resulting invoice. Delivery is FOB Destination, prepaid and charged back based on actual Costs. Payment will be made in accordance with the following pricing.
2. Detailed price breakdown and list of all associated components must be provided.

Item	Description	Qty	Unit of Issue	Unit Price	Extended Price
1	<b>FTIR Spectroscopy Systems: composed of a FTIR optical bench, an Attenuated Total Reflectance (ATR) sampling accessory, a transmission accessory, and associated FTIR spectral libraries.</b> Supply and delivery of three (3) FTIR Spectroscopy Systems in accordance with the specifications identified within Annex A. Bidder is to provide a detailed list of all items that will be part of the FTIR spectroscopy system.	3	each	\$	\$
2	<b>Training:</b> minimum of three (3) days on-site instrument familiarization at DND Suffield in accordance with Annex A. (to be coordinated between DRDC and Contractor)	3	each	\$	\$
3	<b>Warranty/Service Agreement:</b> period of agreement for four years and includes 1 preventive maintenance visit per year per system and include parts, labor, transportation and accommodation costs for on-site visits. For the Preventive Maintenance visits, the locations will be: DRDC Suffield (1 unit) and CFB Trenton (2 units) For the warranty/ service: DRDC Suffield will have one unit, the two at CFB Trenton could be at CFB Trenton or deployed with CANSOFCOM and be located somewhere in Canada.	3	each	\$	\$

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Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

DRDC

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4	<b>Installation and Validation Charges:</b> To install and validate the new FTIR Spectroscopy System at each DND, DRDC Suffield CANADA	3	each	\$	\$
5	<b>Delivery charges:</b> FOB Destination, including all delivery and offloading charges to DND, DRDC Suffield, Ralston Alberta CANADA. Delivery is required on or before 31 March 2013.	3	each	\$	\$
	<b>Subtotal</b>				\$
	<b>GST (5%), if applicable</b>				\$
	<b>TOTAL</b>				\$