

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC  
11 Laurier St./ 11 rue, Laurier  
Place du Portage, Phase III  
Core 0A1 / Noyau 0A1  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776

**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> Drift FT-IR System	
<b>Solicitation No. - N° de l'invitation</b> 23375-140316/A	<b>Date</b> 2013-11-27
<b>Client Reference No. - N° de référence du client</b> 23375-140316	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PV-929-64002	
<b>File No. - N° de dossier</b> pv929.23375-140316	<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 2014-01-07</b>	
<b>Time Zone</b> Fuseau horaire Eastern Standard Time EST	
<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> Martin, Doug	<b>Buyer Id - Id de l'acheteur</b> pv929
<b>Telephone No. - N° de téléphone</b> (819) 956-4037 ( )	<b>FAX No. - N° de FAX</b> (819) 956-3814
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATURAL RESOURCES 1 HAANEL DR. CANMETENERGY ATTN: GIANNI CARAVAGGIO 613-992-8934 OTTAWA Ontario K1A1M1 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**

Scientific, Medical and Photographic Division / Division de  
l'équipement scientifique, des produits photographiques et  
pharmaceutiques  
11 Laurier St./ 11 rue, Laurier  
6B1, Place du Portage  
Gatineau, Québec K1A 0S5

<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>



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Drift FT-IR System FT-IR System with Diffuse Reflectance Infrared Fourier Transform ( DRIFT ) accessory	23375	I - 1	1	Each	\$	XXXXXXXXXXXX	XXXXXXXXXXXX	See Herein	

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

Natural Resources Canada has a requirement for the supply "FT-IR System with Diffuse Reflectance Infrared Fourier Transform ( DRIFT ) accessory" in accordance with the mandatory specifications detailed at Annex "A".

Installation, training and manuals included.

### **3. Debriefings**

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided 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 issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website:

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

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 following are incorporated by reference into and form part of the bid solicitation.

### **The 2003 ( 2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements,**

### **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. Applicable Laws**

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

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.

### **4. 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.

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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.

## 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 (two (2) hard copies), consisting of technical brochures/literature to verify compliancy and test data, if applicable**

**Section II: Financial Bid (one (1) hard copy)**

**Section III: Certifications (one (1) hard copy)**

#### ***Prices must appear in the financial bid only.***

No prices must be indicated in any other section of the bid.

Bidders are requested to submit one quotation document with prices, and a second quotation document with prices removed.

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;
- (c) include the certifications as a separate section of the bid.
- (d) In April 2006, Canada issued a policy directing federal departments and agencies to take necessary steps to incorporate environmental considerations into the procurement process Policy of Green Procurement ( <http://www.tpsgc-pwgsc.gc.ca/ecologistation-greening/chats-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 origination from a sustainably-managed fores and /or containing minimum 30% recycled content; and

2) use and enviornmentally-preferabe format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

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

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

The following applies to the Requirement and bidders must provide the following information in the bid where applicable:

##### **1.1.1 Product(s) Offered ( To be completed by bidder )**

Indicate the make and model of the product(s) offered:

Name of Manufacturer: \_\_\_\_\_

Model/Part Number: \_\_\_\_\_

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**1.1.2 Point of Manufacture/Shipping** ( To be completed by bidder )

The Bidder must state the point of manufacture/shipping of goods:

Location: \_\_\_\_\_ Postal Code: \_\_\_\_\_

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

Delivery is requested by 28 March 2014, the best delivery that could be offered by the Bidder is \_\_\_\_\_.

**Delivery is Mandatory by 31 March 2014.**

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

On-site installation must be provided and shall be carried out by a qualified service technician.

State your best installation schedule. Installation will be carried out within \_\_\_\_\_ ( \_\_ ) calendar days of delivery and be completed within \_\_\_\_\_ ( \_\_ ) calendar days.

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

Operator and Service Manuals must be supplied with the equipment.

Operational manuals in English available. \_\_\_\_\_ Yes.

Service manuals in English available. \_\_\_\_\_ Yes.

Operational manuals in French available. \_\_\_\_\_ Yes.

Service manuals in French available. \_\_\_\_\_ Yes.

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

On-site user training must be provided for up to \_\_\_\_\_ ( \_\_ ) users. All costs associated with the on-site training must be included in the price.

On-site training will be completed within \_\_\_\_\_ ( \_\_ ) calendar days of installation. Provide complete details of training e.g. duration, scope, etc.,

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

Purchase of the system must include: regional technical support; technical phone support; support via the Internet; and support via a fax-back document system.

Response for service shall be within 24 hours or less.

Access to an application scientist for guidance, and method development to be included for a period of one year, as part of the purchase agreement following the instrument installation and familiarization training.

Also, provide the following with your bid:



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a) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.

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b) Locations of available replacement parts from consumables to major components.

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c) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

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e) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

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#### 1.1.4 Contacts

Bidders are requested to provide the following:

Information pertaining to Part 6, Resulting Contract Clauses. 5.3 Contractor's Representative.

#### 1.2 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) is to be shown separately, if applicable.

### 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 herein; and
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

All proposals submitted shall be completed in full and provide all of the information requested in the Request for Proposal (RFP) package to enable a full and complete evaluation. If the requirement is not addressed in the bidder's proposal, the proposal will be considered incomplete or non-responsive and will be rejected. The onus is on the bidder to provide all the information necessary to ensure a complete and accurate assessment.

## 2 Factors for Evaluation

1. **PRICING BASIS (MANDATORY):** Prices must be firm.

2. **BID VALIDITY PERIOD (MANDATORY):** Offers are to remain open for a period of not less than ninety (60) days from the date of closing of this Request for Proposal.

3. **ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):**

a) For Items Defined by Specifications:

The bidder MUST cross reference the mandatory technical criteria contained herein to their proposal providing clear indication where a bid does NOT conform to the specifications. If no exceptions are taken to the specifications, Canada will assume the bidder's complete compliance in their assessment of the offer and in any subsequent contract award.

b) Provision of Supporting Technical Documentation:

Supporting technical documentation for the stores offered shall be provided with the bid at time of bid closing. Technical brochures or technical data MUST be provided to verify compliancy to the technical mandatory specifications

4. **COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)**

5. **FOR CANADIAN SUPPLIERS ONLY:** Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - see herein. (MANDATORY if applicable)

### 3. Basis of Selection

1. 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, including options, will be recommended for award of a contract.

2. The lowest evaluated price will be established using the following criteria:

a) Prices will be evaluated in Canadian Funds including any applicable Excise Taxes and Canadian Customs Duty (if applicable) and excluding the Goods and Services Tax (GST) or Harmonized Sales Tax (HST). For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing;

b) Prices will be evaluated on a "DDP Destination" basis, unless otherwise specified.

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3. Requests for Exchange Rate Fluctuation Protection and/or Progress Payments will not be considered.

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**PART 5 - CERTIFICATIONS**

**Certifications with the Bid**

In order to be considered for contract award, a bidder whose bid is technically and financially responsive, must meet the following conditions:

**Code of Conduct Certifications - Certifications Required Precedent to Contract Award**

Bidders should provide, with their bids or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder.

\_\_\_\_\_  
Family Name

\_\_\_\_\_  
Given Name(s)

\_\_\_\_\_  
Family Name

\_\_\_\_\_  
Given Name(s)

\_\_\_\_\_  
Family Name

\_\_\_\_\_  
Given Name(s)

\_\_\_\_\_  
Family Name

\_\_\_\_\_  
Given Name(s)

\_\_\_\_\_  
Family Name

\_\_\_\_\_  
Given Name(s)

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)

( <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/229.pdf> ), 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.

**Federal Contractors Program for Employment Equity - Certification**

**Federal Contractors Program for Employment Equity - over \$25,000 and below \$200,000**

Organizations that are subject to the Federal Contractors Program for Employment Equity (FCP-EE) but that have been declared ineligible to receive government contracts of goods and services over the threshold for solicitation of bids as set out in the Government Contract Regulations (GCRs) (currently \$25,000, including all applicable taxes) by the Department of Human Resources and Skills Development (HRSD), either as a result of a finding of non-compliance by HRSD, or following their voluntary withdrawal from the FCP-EE for a reason other than a reduction in their workforce, have been advised by HRSD that as a consequence of this action they are no longer eligible to receive any government contract over this threshold. Consequently, their certificate numbers have been cancelled and their names have been

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placed on HRSD's List of Ineligible Contractors. Bids from such organizations will be considered non-responsive.

The Bidder certifies that it has not been declared "ineligible" by HRSD to receive government contracts over the GCRs threshold for solicitation of bids (currently \$25,000, including all applicable taxes) as a result of a finding of non-compliance, or as a result of having voluntarily withdrawn from the FCP-EE for a reason other than a reduction in their workforce.

The Bidder acknowledges that the Minister shall rely on this certification to award the Contract. Should a verification by the Minister disclose a misrepresentation on the part of the Bidder, the Minister shall have the right to treat any contract resulting from this bid as being in default, and to terminate it pursuant to the Default provisions of the Contract.

Signature of authorized representative: \_\_\_\_\_ . Date: \_\_\_\_\_

## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

Natural Resources Canada has a requirement for the supply "FT-IR System with Diffuse Reflectance Infrared Fourier Transform ( DRIFT ) accessory" in accordance with the mandatory specifications detailed at Annex "A".

Installation, training and manuals included.

### 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 issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website: <http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>.

#### 3.1 General Conditions

2010A ( 2012-11-19) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 4. Term of Contract

The contract will be force until all warranty and or optional provisions of this agreement are expired

#### 4.1 Delivery Date

Delivery must be completed on or before (*to be filled in at contract award*).

##### 4.1.2 Shipping Instructions

##### 4.1.2. Shipping Instructions - Delivery at Destination

1. Shipment shall be consigned to the destination specified, and delivered:

DDP Delivered Duty Paid Ottawa, Ontario Incoterms 2000.

2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.

### 5. Authorities

#### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

**Doug Martin, Supply Specialist ( PV )**

Public Works and Government Services Canada  
Acquisitions Branch

Commercial Consumer Products Directorate  
11 Laurier Street, ( 44 ) 6A2, Phase III  
Place du Portage, Hull, Quebec, K1A 0S5

Telephone: (819) 956 4037

Facsimile: (819) 956-3814

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E-mail address: **doug.martin@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 Technical Authority** (to be filled in only at contract award)

The Technical Authority for the Contract is:

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**

**Contractor's Representative** ( To be completed by bidder )

The telephone number of the person responsible for :

**General enquiries**

Name: \_\_\_\_\_ Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_ E-mail address: \_\_\_\_\_

**Delivery Follow-up**

Name: \_\_\_\_\_ Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_ E-mail address: \_\_\_\_\_

**6. Payment**

**6.1 Basis of Payment - Firm Price**

1. In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor shall be paid a firm price of **\$ XX.XX** ( to be filled in at contract award) Goods and Services Tax or Harmonize Sales Tax extra, if applicable.
2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Specifications, will be authorized or paid to the Contractor unless such design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority prior to their incorporation in the Work.

## 6.2 Single Payment

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

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

## 7. Invoicing Instructions

### Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in **Section 10, 2010A ( 2012-11-19) General Conditions - Goods or Services ( Medium Complexity)**.

Original copy to **consignee** with one copy to the **Contracting Authority**.

Name: Doug Martin  
 Public Works and Government Services Canada  
 Acquisition Branch, CASMS  
 Telephone: (819) 956-4037  
 Facsimile: (819) 956-3814  
 E-Mail address: doug.martin@pwgsc.gc.ca

**The Invoice contact for the Contract is:** ( *To be filled in at time of contract award* )

## 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 entire contract period. 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.

### 8.2 SACC Manual Clauses

A2000C	Foreign Nationals (Canadian Contractor)	06/06/16
A2001C	Foreign Nationals (Foreign Contractor)	06/06/16
A9131C	Controlled Goods Production	08/12/12
B1501C	Electrical Equipment	06/06/16
B7500C	Excess Goods	06/06/16
C0100C	Discretionary Audit - Commercial Goods and/or Services	07/05/25
D2001C	Labelling	07/11/30
D9002C	Incomplete Assemblies	07/11/30

## 9. Applicable Laws

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



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## 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) **2010A ( 2012-07-16) General Conditions - Goods or Services ( Medium Complexity)**;
- (c) Annex **A**, Requirement;
- (d) the Contractor's bid dated \_\_\_\_\_ as clarified on \_\_\_\_\_ " **or** ", as amended on \_\_\_\_\_

## Annex "A" REQUIREMENT

### ***Mandatory Specifications for the "FT-IR System with Diffuse Reflectance Infrared Fourier Transform ( DRIFT ) accessory" :***

Bidder must complete the following statement of compliance.

The Bidder shall indicate compliance to each item. Failure to comply with the mandatory system specifications will render your proposal non-responsive, and no further consideration will be given.

Your quote must include and list all of the components necessary to meet these mandatory specifications.

Bidders must ensure that adequate literature/technical brochure(s) are submitted at time of bid closing to support compliance with all mandatory technical criteria.

#### **1.0 Specification for FT-IR system**

1.1 The instrument must be sealed and desiccated or purged. The instrument must be equipped with the necessary internal plumbing and external connector for purge operation.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1.2 The infrared source must be user replaceable, must have a guaranteed lifetime of 5 years or 2 sources must be provided.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1.3 The Interferometer must provide collection capabilities at least 60 spectra per second, for fast kinetics at a spectral resolution of 16 cm-1

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1.4 The interferometer must be dynamically aligned and capable of spectral resolution better than 0.09 cm-1 with apodization.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1.5 The instrument must be capable of at least 48,000:1 peak to peak signal to noise, measured at 4 cm-1 resolution with purge. The wavelength precision must be within 0.01 cm-1 with no need for software intervention or calibration.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1.6 The spectrometer must have a motorized, continuously variable aperture, for optimal peak shape collection of data.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1.7 The interferometer must permit insertion of a wide range of beamsplitters and be stored within the spectrometer. Beamsplitters must be available for the instrument to cover the spectral range from 27,000 to 50 cm-1

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1. 8 The instrument must support up to three detectors (as an option). The instrument must include a DLaTGS mid-infrared detector and a MCT liquid nitrogen cooled detector.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1. 9 The spectrometer must support an optional mounted diamond attenuated total reflection accessory (ATR).

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1. 10 The spectrometer must support GC-IR interface and TGA-IR interface accessory module options. These accessories must be available at the point of sale, or as a field upgrade.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1. 11 The spectrometer must include a motorized validation wheel. The spectrometer must include an automated and software controlled beam attenuated wheel.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

1. 12 The system must be able to provide left and right external beams for supporting additional sampling modules or infrared microscopes.

## 2.0 Specification for Operational Software

The operational software must be fully compatible with Microsoft Windows XP (32-bit) and Windows 7 (32-bit or 64-bit).

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 2 Operational software must be able to perform quantitative analysis and qualitative library search.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 3 Operational software-quantitative and qualitative analysis must be able to be performed from kinetic data files/experiments.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 4 The software must be able to reanalyze FT-IR data

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 5 Operational software must support both Advanced and Basic experiment setup functionality. The Basic functionality must support measurement time/number of scans, resolution, final format, spectral region (over the full range supported by the available hardware) and indicate current source, beamsplitter and detector. The Advanced experiment setup functionality must support additional parameter settings such as Corrections, Background collection number of scans, Gain selection, Optical Velocity selection and Aperture settings

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 6 An extensive set of spectral libraries must be available, in NIR and mid-IR spectral references.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 7 The spectral database should include organics, gases, metal oxides

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

2. 8 Operating software must accommodate internal and external trigger

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

### 3.0 Specification for DRIFT accessory

3.1 Must have a high efficiency illumination and collection system with 60° off-axis optical design to optimize diffuse reflectance data by minimizing specular reflectance.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 2 Deflects the specular reflectance away from the collecting ellipsoid

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 3 Configured to study materials and reactions in controlled environments

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 4 Intentionally blank

3. 5 Allows analysis of catalysts in a temperature and/or pressure controlled environment

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 6 Ellipsoids pivot to provide access to the sampling area.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 7 Allows attachment of reaction chambers.

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 8 High Temperature, low pressure chamber operates at temperature up to 910°C (under vacuum)

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 9 Designed for operation from vacuum (pressures of 133 mPa) to 133 kPa

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 10 Reaction chamber must have three inlet/outlet ports provided for evacuating the cell and introducing gases

You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page

3. 11 Reaction chamber must have dome with three windows, KBr and ZnSe for the infrared window  
You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page
3. 12 Reaction chamber must have a glass observation window  
You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page
3. 13 Reaction chamber made of chemically resistant 316 stainless steel.  
You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page
3. 14 Includes automatic and software temperature controller  
You must indicate in your submission, a page reference to the above mandatory. \_\_\_\_\_ Page