



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave. Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

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

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
ATB Place North Tower
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Title - Sujet FTIR Microscope	
Solicitation No. - N° de l'invitation 31970-195708/A	Date 2018-12-11
Client Reference No. - N° de référence du client 31970-195708	
GETS Reference No. - N° de référence de SEAG PW-\$EDM-100-11508	
File No. - N° de dossier EDM-8-41154 (100)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-01-21	Time Zone Fuseau horaire Mountain Standard Time MST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Fisher, Drew	Buyer Id - Id de l'acheteur edm100
Telephone No. - N° de téléphone (780) 901-4270 ()	FAX No. - N° de FAX (780) 497-3510
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: NATIONAL RESEARCH COUNCIL CANADA 11421 SASKATCHEWAN DRIVE Nanotechnology Research Centre EDMONTON Alberta T6G2M9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	2
1.1 REQUIREMENT	2
1.2 DEBRIEFINGS.....	2
1.3 TRADE AGREEMENTS	2
1.4 EPOST CONNECT SERVICE	2
PART 2 - BIDDER INSTRUCTIONS	2
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	2
2.2 SUBMISSION OF BIDS	2
2.3 ENQUIRIES - BID SOLICITATION	3
2.4 APPLICABLE LAWS	3
PART 3 - BID PREPARATION INSTRUCTIONS	3
3.1 BID PREPARATION INSTRUCTIONS.....	3
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	4
4.1 EVALUATION PROCEDURES	4
4.2 BASIS OF SELECTION	5
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	5
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	5
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION.....	5
PART 6 - RESULTING CONTRACT CLAUSES.....	6
6.1 SECURITY REQUIREMENTS	6
6.2 REQUIREMENT	6
6.3 STANDARD CLAUSES AND CONDITIONS	6
6.4 TERM OF CONTRACT	6
6.5 AUTHORITIES	6
6.6 PAYMENT	7
6.7 INVOICING INSTRUCTIONS.....	8
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION	8
6.9 APPLICABLE LAWS	8
6.10 PRIORITY OF DOCUMENTS.....	8
6.11 SACC MANUAL CLAUSES	9
ANNEX "A".....	10
REQUIREMENT	10
ANNEX "B"	15
BASIS OF PAYMENT	15
ANNEX "C" TO PART 3 OF THE BID SOLICITATION	16
ELECTRONIC PAYMENT INSTRUMENTS	16

PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Annex A - Requirement.

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is subject to the provisions of the the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

1.4 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

2.2 Submission of Bids

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

Bids/Offer must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the bid solicitation:

Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave. Jasper
5th floor/5e étage
Edmonton/AB
T5J 1S6

ROReceptionSoumissions.WRBidReceiving@tpsgc-pwgsc.gc.ca Bids/Offer will be not be accepted if emailed directly to this email address. This email is to initiate an ePost Connect conversation, as detailed in the Standard Instructions.

(780) 497-3510

Submissions faxed to PWGSC will be accepted.

2.3 Enquiries - Bid Solicitation

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

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

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy or 1 fax copy)
Section II: Financial Bid (1 hard copy or 1 fax copy)
Section III: Certifications (1 hard copy or 1 fax copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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 hard copy 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, bidders should:

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

Section I: Technical Bid

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- a) Ability to perform the full scope of the work as described in Annex "A".
- b) Provision of firm price(s), as specified in Annex "B".

4.1.2 Financial Evaluation

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

4.2 Basis of Selection

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

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

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before March 31, 2019

6.4.2 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Drew Fisher
Public Works and Government Services Canada
Acquisitions Branch
Western Region

Solicitation No. - N° de l'invitation
31970-195708/A
Client Ref. No. - N° de réf. du client
31970-195708

Amd. No. - N° de la modif.
File No. - N° du dossier
EDM-8-41154

Buyer ID - Id de l'acheteur
EDM100
CCC No./N° CCC - FMS No./N° VME

5th Floor ATB Place North Tower
10025 Jasper Avenue
Edmonton, Alberta T5J 1S6
Telephone: (780) 901-4270
Facsimile: (780) 497-3510
E-mail address: drew.fisher@pwgsc-tpsgc.gc.ca

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

6.5.2 Project Authority

The Project Authority for the Contract is: (TBD)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

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

6.5.3 Contractor's Representative

Name: _____
Title: _____
Telephone : _____
Facsimile: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices as specified in Annex "B"- Basis of Payment. Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

6.6.3 SACC Manual Clauses

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

6.6.4 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 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.

1. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2018-06-21), General Conditions - Goods (medium complexity);
- (c) Annex "A" Requirement;
- (d) Annex "B" Basis of Payment
- (f) the Contractor's bid dated _____

Solicitation No. - N° de l'invitation
31970-195708/A
Client Ref. No. - N° de réf. du client
31970-195708

Amd. No. - N° de la modif.
File No. - N° du dossier
EDM-8-41154

Buyer ID - Id de l'acheteur
EDM100
CCC No./N° CCC - FMS No./N° VME

6.11 SACC *Manual* Clauses

A9068C (2010-01-11), Government Site Regulations
B1501C (2018-06-21), Electrical Equipment
B7500C (2006-06-16), Excess Goods
G1005C (2016-01-28), Insurance-No Specific Requirement

ANNEX "A" –REQUIREMENT

The National Research Council of Canada has a requirement for one (1) new FTIR microscope system to be delivered to Edmonton, Alberta, Canada. On-site installation and training are also required. The FTIR microscope will be used for supporting internal research projects and servicing external clients. Trade in discount for the previous system will be evaluated as a decrease to the final prices for evaluation.

Refer to the Compliance Matrix for the complete performance specifications and instructions that must be satisfied in order for a bid to be deemed responsive.

INSTALLATION AND TRAINING

The supplier must install and configure the FTIR Microscope System in its entirety on site at the delivery address listed below at the complete expense of the supplier (including but not limited to travel expenses). The supplier must verify upon installation that the FTIR Microscope System is operating in accordance with minimum performance specifications in the compliance matrix below. Installation must be coordinated with NRC Project Authority. Installation must be completed on or before March 31, 2019.

Training for the FTIR Microscope, its accessories and the software system must be provided by the supplier at the complete expense of the supplier (including but not limited to travel expenses). The supplier must train up to three persons at the delivery address listed below. Training must be coordinated with NRC Project Authority. Training must be completed by March 31, 2019.

DELIVERY

All deliverables must be received on or before **March 31, 2019** at:

National Research Council Canada (NRC)
Nanotechnology Research
Centre
11421 Saskatchewan Drive
Edmonton, Alberta, T6G 2M9, Canada

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

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

1. Bidders **must** show compliance by addressing each performance specification in the Compliance Matrix, whether the product offered "meets" or "doesn't meet".
2. Bidders are requested to indicate how they meet each performance specification by recording this information under the Performance Specification Offered column in the Compliance Matrix.
3. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Compliance Matrix for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.

4. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
5. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
6. Failure to meet each mandatory performance specification will result in the bid being deemed non-responsive, and be given no further consideration.

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

Requirement	Manufacturer Offered:	Model number Offered#

Item #	Performance Specification	Status (M) Mandatory (D) Desirable*	Performance Specification Met? Indicate either Yes/No	Performance Specification Offered: Bidder <u>should</u> indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents.
1	FTIR System				
1.1	Interferometer is air or mechanical bearing Michelson	M			
1.2	Spectral range covers 8,000 – 400 cm ⁻¹	M			
1.3	Spectral resolution is smaller than or equal to 0.1 cm ⁻¹	M			
1.4	Signal to noise ratio is bigger than or equal to 40,000:1 for peak to peak measurement between 2, 200 cm ⁻¹ to 2,100 cm ⁻¹ with 4 cm ⁻¹ spectra resolution for 5 seconds	M			
1.5	Wavenumber accuracy must be smaller or equal to 0.01 cm ⁻¹ at 2, 200 cm ⁻¹ and precision must be smaller or equal to 0.005 cm ⁻¹	M			

1.6	Infrared source must have a power higher than or equal to 150 mW at the sample focus	M			
1.7	Scan rates must be higher than or equal to 100 spectra/second by using 16 cm ⁻¹ spectral resolution	M			
1.8	Spectrometer enclosure must be purged	M			
1.9	Detector is MCT or DTGS	M			
1.10	The sample compartment must be able to accommodate sample accessories (e.g. diamond ATR, GATR etc.) supplied by third parties	M			
2	Microscope				
2.1	The microscope must be coupled to the above FTIR unit and share the same IR source with the IR spectrometer	M			
2.2	Fixed tri-nocular viewer	M			
2.3	Aperture size must be motorized to change	M			
2.4	IR objective: collection objective: 15x IR/visible with working distance longer than or equal to 20mm; Condenser objective: independent vertical motion to compensate for substrate thickness	M			
2.5	Visible objective: 4x glass with working distance longer than or equal to 30mm	M			
2.6	High magnification optics must be software	M			

	controlled and able to deliver a minimum 5x magnification without changing objectives				
2.7	Stage must be motorized and can travel a minimum area of 8cm x 6cm with 0.1µm step size	M			
2.8	Single point MCT detector should cover minimum range of 8,000 to 450 cm ⁻¹	M			
3	Software				
3.1	Collect data, analyze data and report results, export data in text file	M			
3.2	Set-up parameters, live display of data	M			
3.3	Spectral peak picking and annotation	M			
3.4	Data processing able to run baseline correction (automatic and manual), smoothing, spectral math performance such as addition and subtraction	M			
4	Computer System				
4.1	The computer system should be windows based system (software support windows10)	M			
4.2	Minimum 21" monitor. Must be LCD	M			
4.3	Minimum clock speed is 3.0 Ghz for the processor	M			
4.4	At least 8 GB RAM	M			
4.5	1T Hard drive or more	M			
4.6	16xDVD burner or better, six or more USB ports with at least two having USB 3.0	M			

Solicitation No. - N° de l'invitation
31970-195708/A
Client Ref. No. - N° de réf. du client
31970-195708

Amd. No. - N° de la modif.
File No. - N° du dossier
EDM-8-41154

Buyer ID - Id de l'acheteur
EDM100
CCC No./N° CCC - FMS No./N° VME

4.7	Network card	M			
4.8	Video card must have at least 512 MB onboard memory	M			
4.9	A color laser printer	M			
5	Trade-in of Current Instrument	If applicable			
5.1	Vendor must provide a trade-in discount on NRC Nano Research Center's current approximately 15 year old FTIR microscope (Digilab, now Agilent FTS 7000 system with 64x64 FPA detector).	D			
5.2	The costs and insurance associated with the return of the current FTIR microscope to the vendor will be covered in their entirety by the vendor, or vendor may choose to let NRC Nano Research Center keep the instrument	D			

ANNEX "B"

BASIS OF PAYMENT

- The Firm Unit Prices are FOB destination and include all delivery charges, customs, and duties to National Research Council Canada – Nanotechnology Research Centre; 11421 Saskatchewan Drive, Edmonton, Alberta, T6G 2M9.
- Firm Lot Price does not include applicable taxes, however applicable taxes will be added as a separate line item to any invoice issued as a result of a Contract.
- The Firm Lot Price for the Installation and Testing include all costs for labour, materials, equipment, tools, travel/meals/lodging, and supervision necessary to provide the work.
- All prices are in Canadian dollars.

Item	Description	Qty.	Firm Unit Price	Extended Price
1.0	Supply, and delivery of (1) Fourier Transform InfraRed (FTIR) spectrometer with microscope in compliance with the Minimum Performance Specifications and the requirements outlined in Annex A;	1 Lot	\$_____/lot	\$_____
2.0	Less rebate (if available) for previous system. Approximately 15 year old FTIR microscope (Digilab, now Agilent FTS 7000 system with 64x64 FPA detector). Shipping included.	1 Lot (if applicable)	\$_____/lot	\$_____
3.0	Following the complete on-site installation, testing of the System, and training as outlined in Annex A;	1 Lot	\$_____/lot	\$_____
Total Assessed Bid Price (1.0-2.0+3.0):				\$_____

Solicitation No. - N° de l'invitation
31970-195708/A
Client Ref. No. - N° de réf. du client
31970-195708

Amd. No. - N° de la modif.
File No. - N° du dossier
EDM-8-41154

Buyer ID - Id de l'acheteur
EDM100
CCC No./N° CCC - FMS No./N° VME

ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

- ☐ VISA Acquisition Card;
- ☐ MasterCard Acquisition Card;
- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only);
- ☐ Large Value Transfer System (LVTS) (Over \$25M)