



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada
Room 100,
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6
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

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
Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6

Title - Sujet Mass Spectrometer	
Solicitation No. - N° de l'invitation 01634-190686/A	Date 2018-12-14
Client Reference No. - N° de référence du client 01634-190686	
GETS Reference No. - N° de référence de SEAG PW-\$WPG-119-10734	
File No. - N° de dossier WPG-8-41164 (119)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-01-28	Time Zone Fuseau horaire Central Standard Time CST
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: Zdan, Tyler	Buyer Id - Id de l'acheteur wpg119
Telephone No. - N° de téléphone (204) 509-5743 ()	FAX No. - N° de FAX (204) 983-7796
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF AGRICULTURE AND AGRI-FOOD 101 ROUTE 100, UNIT 100 MORDEN Manitoba R6M1 Y5 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	5
4.1 EVALUATION PROCEDURES	5
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	7
6.5 AUTHORITIES	7
6.6 PAYMENT	8
6.7 INVOICING INSTRUCTIONS	9
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION	9
6.9 APPLICABLE LAWS	9
6.10 PRIORITY OF DOCUMENTS	9
6.11 SACC <i>MANUAL</i> CLAUSES	9
6.12 WARRANTY – MODIFICATION – GENERAL CONDITIONS 2010A	9
ANNEX A	10
REQUIREMENT	10
ANNEX B	21
BASIS OF PAYMENT	21
ANNEX C	22
ELECTRONIC PAYMENT INSTRUMENTS	22

PART 1 - GENERAL INFORMATION

1.1 Requirement

Agriculture and Agri-Food Canada requires the supply and delivery of one (1) mass spectrometer coupled with ultra-high-performance liquid chromatograph (MS-UHPLC) on or before March 29, 2019.

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 World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), 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.

2.2 Submission of Bids

Bids 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:
Bid Receiving Public Works and Government Services Canada
100 -167 Lombard Ave.
Winnipeg, MB, R3B 0T6

Email address (for initiating an ePost conversation): 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. ****

Bid Fax: (204) 983-0338

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) 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 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

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
Section IV: Additional Information

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

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

SACC Manual Clause [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

See Annex A: Requirement.

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2016-01-28), Evaluation of Price

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause [A0031T](#) (2010-08-16), Basis of Selection - Mandatory Technical Criteria

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.

The Bidder must provide the Contracting Authority with a completed annex titled Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

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 one (1) mass spectrometer coupled with ultra-high-performance liquid chromatograph (MS-UHPLC), in accordance with 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.

6.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance; and
4003 (2010-08-16), Licensed Software, 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 29, 2019.

6.4.2 Delivery Points

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

6.4.3 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex B of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before March 31, 2020 by sending a written notice to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Tyler Zdan
Title: Procurement Officer
Public Works and Government Services Canada
Procurement Services
Directorate: Western Region
Address: 100-167 Lombard Avenue, Winnipeg, MB, R3B 0T6
Telephone: (204) 509-5743
E-mail address: Tyler.Zdan@tpsgc-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.

6.5.2 Project Authority

The Project Authority for the Contract is:

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

6.6 Payment

6.6.1 Basis of Payment

*** This section will be completed upon contract award. ***

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$ _____.
Customs duties are included and 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 Single Payment

SACC Manual Clause [H1000C](#) (2008-05-12), Single Payment

6.6.3 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

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: The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

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 Manitoba.

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) [4001](#) (2015-04-01), Hardware Purchase, Lease and Maintenance; and [4003](#) (2010-08-16), Licensed Software;
- (c) the general conditions [2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated _____.

6.11 SACC Manual Clauses

SACC Manual Clause [A9062T](#) (2010-01-11), Government Site Regulations

6.12 Warranty – Modification – General Conditions 2010A

Section 09 entitled *Warranty of general conditions 2010A* is amended in accordance with the section of Annex A: Requirement entitled Technical Support and Warranty.

ANNEX A

REQUIREMENT

Requirement Detail

Statement of Requirement: Agriculture and Agri-Food Canada requires the supply and delivery of one (1) mass spectrometer coupled with ultra-high-performance liquid chromatograph (MS-UHPLC) on or before March 29, 2019. The requirement includes of installation of the MS-UHPLC and training on its use.

Background: AAFC's Morden Research and Development Centre in Morden, Manitoba supports various breeding, pathology, genomics, proteomics, and nutritional and health benefits of agriculture produce through mycotoxin research and bioactive research programs both on-station and off-station.

The MS-UHPLC to be supplied will be used for small molecules (50 to 2000 m/z) analysis for identification, quantification, and structure elucidation. The instrument must support MS2 and higher order data acquisition for identification of unknown molecules.

Delivery Location

Street Address: AAFC Morden Research and Development Centre, 101 Route 100
City: Morden
Province: Manitoba
Country: Canada
Postal Code: R6M 1Y5

Mandatory Delivery Date

Delivery Date: March 29, 2019

Compliance Matrix - Minimum Mandatory Criteria

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 ("Yes") or doesn't meet ("No").
2. Bidders must indicate whether the product or service offered meets each performance specification by stating, "Yes," or, "No."
3. If applicable, supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations, should be provided with the bid at solicitation close. If supporting documentation is supplied, the Bidder should include a note in the Compliance Matrix that directs the evaluator(s) to the precise location of the supporting information for the relevant criterion (e.g. "specification sheet, item 2.1." Supporting documentation should be provided directly. Bidders should refrain from referencing information not included with the bid (e.g. "See company website," or, "See p. 12 of our online brochure").
4. If Canada requests additional supporting documentation for any of the mandatory specifications, the Contracting Authority will notify the Bidder, and the Bidder will have a deadline of two (2) business days to provide the requested information. Failure to fulfil such a request could result in the bid being deemed non-compliant.
5. Bidders with questions or concerns in regards to the performance specifications can raise these with the Contracting Authority prior to the deadline outlined in the solicitation document. Such submissions should be provided in writing by emailing the Contracting Authority directly. When required, bidder questions or concerns can result in revisions or corrections to the performance specifications.
6. If the bid fails to meet any mandatory performance specification herein, the evaluator(s) will deem the bid non-compliant.

Bidder Information	
Bidder Name:	
Address:	
Representative:	
Phone/Email:	
PBN/Vendor Code:	

Line Item #	Technical Specification/ Mandatory Criterion/ Item List	Requirement Met? Indicate "Yes" or "No"	Supporting documentation provided? Provide cross- referencing information if applicable.
General Specifications			
1	The Contractor must provide one (1) mass spectrometer coupled with ultra-high-performance liquid chromatograph (MS-UHPLC).		
2	The MS-UHPLC must be new (not used or refurbished) and a current production model (not a prototype or developmental model).		
Technical Specifications			
Mass Spectrometer (MS)			
3	The mass spectrometer must be capable of analyzing small molecules derived from cereal grains and other agricultural produce. The instrument must have: - High mass accuracy (< 3 ppm with an external calibration, and <1 ppm using an internal calibration procedure) across the entire mass range; - High mass resolution (up to 500,000 FWHM at m/z 200) and fast scan speeds (up to 30 Hz) during routine LC-MS analyses with MS scan power (top-ten method);		

	-A linear dynamic range of at least 4 orders of magnitude, to enable relative quantification.		
4	The MS must be compatible with the UHPLC, heated electrospray ionization (HESI) and Atmospheric pressure chemical ionization (APCI). HESI and APCI attachments must be provided.		
5	The MS must be able to perform data acquisitions at a speed of up to 30 Hz, under standard experimental conditions - a top-ten method - where each precursor ion scan is followed by 10 data-dependent product ion scans.		
6	The MS must be able to detect < 100 fg of analyte in a selected ion monitoring (SIM) scan with a signal-to-noise ratio of 100:1 or better.		
7	The MS must exhibit a dynamic range of at least 5000:1.		
8	The MS must support multiplex selected ion monitoring (SIM), MS/MS.		
9	Mass Range: MS must operate in in the range of m/z 50-2000 da. (Dalton), and must maintain mass accuracy across the full range.		
10	The MS must support rapid polarity switching from positive to negative mode so that both		

	modes may be used during the same run, that is, one full cycle in 1.1 seconds or less, at resolution of at least 30,000.		
11	The MS must provide selectivity as good as the parent ion selection and isolation with at least 0.4 Da by mass.		
12	The MS must support data acquisition modes for profiling analytes in complex samples (MS2) and for identification, characterization, and structure elucidation of unknown molecules (MS3 and higher order fragmentation).		
13	The instrument must not exceed the following size restrictions: 150 cm (w) x 90 cm (h) x 90 cm (d).		
Ultra-High-Performance Liquid Chromatograph (UHPLC)			
14	The ultra-high-performance liquid chromatograph must include UHPLC pump and auto-sampler. The instrument must: -Be able to deliver a steady and stable flow of 0.001 to 8 mL/min to the MS via a temperature controlled UHPLC column (typically C18 or biphenyl particles of 1.5 to 1.7 µm with 100 Å pores, in a stainless steel body with ID = 2.1mm); -Be able to operate at a back pressure up to 15000 psi;		

	-Be able to inject sample batches (up to 400 samples, 0.01-25 µl each) automatically from a temperature-controlled (4°C to 40 °C) auto-sampler; -Include column compartment to control column temperature.		
15	Auto-sampler injection range: Must be able to select a vial and inject a minimum volume of 0.01 µL up to 25 µL and maintain a sample temperature (set point between 4 and 40 °C) with a deviation of no more than 2 °C.		
16	Sample compartment temperature control: Must be able to maintain a sample temperature (set point between 4 and 40 °C) with a deviation of no more than 2 °C.		
17	Programmable auto-sampler: Must be fully programmable to analyze overnight sample batches.		
18	UHPLC Pump: Must be able to deliver reliable and steady flow of at least 0.01 to 8 mL/min and form accurate gradients from two mobile phases.		
19	UHPLC Pump: Must include binary pumps capable of maintaining steady flow with column backpressures of up to 15,000 psi.		

20	UHPLC system must be able to record and display column pressures and mobile phase gradients in real time.		
21	Sample compartment must accommodate at least two hundred (200) 1.5 mL UHPLC vials OR four (4) 96 well plates.		
22	UHPLC must be compatible with chromatograph columns (typically C18 or biphenyl particles of 1.5 to 1.7 μm with 100 Å pores, in a stainless steel body with ID = 2.1mm) from all major manufacturers.		
Nitrogen Gas Supply			
23	Nitrogen gas generator to supply high purity nitrogen gas to the equipment. Nitrogen gas generated must meet the gas requirement specifications for the equipment.		
System Computer			
24	Contractor must supply one (1) high-speed processing computer with adequate RAM (at least 32 GB), high speed video graphics cards supporting dual monitors and high speed read/write solid state hard drives (> 1TB) with Windows 10 OS to control MS-UHPLC. In addition, the Contractor must provide one (1) additional high speed Data Processing		

	<p>Work Station (higher processing speed than the one controlling the MS-UHPLC) with solid state hard drives (> 1TB) and video cards supporting dual monitors.</p> <p>The Contractor must also supply two monitors for each computer ordered (total of four) and one laser color printer. Monitors must measure at least 27".</p>		
System Software			
25	The Contractor must provide system software and software upgrades must be provided free of charge for a period of at least one year after installation of the system.		
26	The software must be compatible with Microsoft Windows 10 or Windows 7, with 64 bit operating systems.		
27	The software must be able to control all functions of both instruments (MS and UHPLC along with column and sample compartments), and must be able to collect data in the form of mass spectra, extract and analyze spectra, and quantify analytes. The Contractor must include at least 2 software licenses with each software package.		

28	Must include software packages for screening of unknown compounds and allow for identification, characterization, and structure elucidation of unknown small molecules.		
Electrical Specifications and Certifications			
29	Power requirements must not exceed 240 v, 30A per circuit for the MS, 110V/15A for UHPLC and system controlling computers.		
30	Equipment must be Canadian Standards Association (CSA or CSA International) approved. Additionally, the equipment must meet the criteria of a National Certification body for the Country of Manufacture (i.e., EC, UL, ULC) before being shipped to the Morden Research and Development Centre.		
31	The overall system must include an uninterrupted power supply (UPS) to be able to power the equipment for up to an hour to allow proper shutdown in the event of power failure and to protect the equipment from power surges.		
Technical Support and Warranty			

32	The Contractor must provide a one-year warrant, offering full parts and labour coverage and on-site service		
33	The Contractor must offer AAFC the option to purchase an extended warranty, offering parts and labour coverage of 3 to 4 years beyond the standard manufacturer's one-year warranty.		
34	Work resulting from warranty calls must begin within 72 hours of the initiating contact.		
Delivery, Inspection and Acceptance			
35	Packaging and shipping must be in accordance with the industry standard for all items, in order to ensure their safe arrival at the destination. Packing slips shall accompany each shipment.		
36	Upon installation, an authorized representative of AAFC will inspect the instruments to ensure they are in full working order, which will finalize AAFC's acceptance of the instruments.		
Quality Assurance			
37	The Manufacturer of the instruments must be ISO 9000 compliant.		

38	The Contractor must be the OEM, or an authorized distributor or reseller, of the instruments being offered.		
Installation and Training			
39	Installation must occur within 15 calendar days of delivery of the instruments. Installation must be completed by a certified-installer.		
40	The Contractor must provide up to 3 days of training on the use of the MS-UHPLC for up to five (5) AAFC employees. Training must take place at the AAFC Morden Research Centre.		
User Documentation			
41	On delivery, the Contractor must provide a full set of user documentation (e.g. user manual, parts manual) in English, and in an electronic format.		

ANNEX B

BASIS OF PAYMENT

In consideration of the Contractor satisfactorily fulfilling all of its obligations under the Contract, the Contractor will be paid a firm price, as specified below. Customs duties are included and any applicable taxes are extra, and are to be shown as a separate item on any resulting invoice.

Bidders must provide pricing for both warranties listed within Table 2. Prices for the warranties will not be utilized in the financial evaluation of the bid and are for information purposes only. Upon award of a contract, Agriculture and Agri-Food Canada will not be bound to purchase either warranty, but may opt to purchase one by exercising the option as described within Section 6.4.3.

Table 1: Initial Purchase					
Item #	Description	Unit	Unit Price	Quantity	Extended Price
1	Mass Spectrometer.	ea	\$	1	\$
2	Ultra-high-performance liquid chromatograph.	ea	\$	1	\$
3	High-speed processing computer, to be used to control MS-UHPLC.	ea	\$	1	\$
4	High-speed processing computer, to be used as data processing work station.	ea	\$	1	\$
5	Computer monitor, 27" or larger (two per computer).	ea	\$	4	\$
6	Laser printer.	ea	\$	1	\$
7	Delivery to Agriculture and Agri-Food Canada Morden Research Centre in Morden, MB.	ea	\$	1	\$
8	Installation of MS-UHPLC system.	ea	\$	1	\$
9	Training of AAFC staff.	ea	\$	1	\$
Financial Evaluation Total:					\$

Table 2: Optional Purchases					
Item #	Description	Unit	Unit Price	Quantity	Extended Price
1	3-year extended warranty.	ea	\$	1	\$
2	4-year extended warranty.	ea	\$	1	\$
Table 2 Total:					\$

Solicitation No. - N° de l'invitation
01634-190686
Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.
File No. - N° du dossier
01634-190686

Buyer ID - Id de l'acheteur
wpg119
CCC No./N° CCC - FMS No./N° VME

ANNEX C

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)