



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095**

**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
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Title - Sujet Carbohydrate IC System	
Solicitation No. - N° de l'invitation 01E91-170829/A	Date 2016-12-15
Client Reference No. - N° de référence du client 01E91-170829	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-007-7237	
File No. - N° de dossier TOR-6-39115 (007)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-01-25	Time Zone Fuseau horaire Eastern Standard Time EST
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: Noor, Hussain	Buyer Id - Id de l'acheteur tor007
Telephone No. - N° de téléphone (905) 615-2080 ()	FAX No. - N° de FAX (905) 615-2060
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF AGRICULTURE AND AGRI-FOOD 93 Stone Road West Guelph Ontario N1G5C9 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
PART 2 - BIDDER INSTRUCTIONS	2
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	2
2.2 SUBMISSION OF BIDS.....	2
2.3 ENQUIRIES - BID SOLICITATION.....	2
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 – MANDATORY TECHNICAL CRITERIA	7
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	7
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	7
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	7
PART 6 - RESULTING CONTRACT CLAUSES	8
6.1 SECURITY REQUIREMENTS	8
6.2 REQUIREMENT	8
6.3 STANDARD CLAUSES AND CONDITIONS.....	8
6.4 TERM OF CONTRACT	8
6.5 AUTHORITIES	8
6.6 PAYMENT	9
6.7 INVOICING INSTRUCTIONS	10
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	10
6.9 APPLICABLE LAWS.....	10
6.10 PRIORITY OF DOCUMENTS	11
6.11 INSURANCE	11
ANNEX A	12
REQUIREMENT	12
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 Article 6.2 of the resulting contract clauses.

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 North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

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>) 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 (2016-04-04) 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 Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

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 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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders 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. The total amount of Applicable Taxes must be shown separately.

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

ITEM #	Mandatory Requirement	Page # Identify page number in your proposal where the information can be found
M1	The bidder must provide the proposed Carbohydrate Ion Chromatography (IC) System Technical Manual.	
	The bidder must provide documentation that demonstrates that their proposed Carbohydrate IC System meets the Mandatory Requirement for the following criteria (M2 to M8)	
M2	Carbohydrate IC Solvent Delivery System: <ul style="list-style-type: none">- The pumping system must be either quaternary low pressure mixing, isocratic, or capillary design;- The pumping system must operate at pressure of 5000 psi; and- The gradient pump must support unlimited number of linear, convex, and concave eluent gradient profiles.	
M3	Carbohydrate IC Auto Sampler: <ul style="list-style-type: none">- The autosampler must perform full-loop and partial-loop injections;	

	<ul style="list-style-type: none"> - The autosampler must be configurable in either push or pull injection mode; - The autosampler capacity must be flexible to accommodate a minimum of eighty-one (81) 10mL vials, and one-hundred-and-twenty (120) 1.5mL vials; - The instrument must be capable of sampling a minimum volume of 10 µL from a 300 µL microvial or 20 µL from a 500 µL microvial; - The instrument must perform fraction collection and sample reinjection; and - The instrument must set and control sample tray temperature in a range of 4-60 °C. 	
M4	<p>Carbohydrate IC Thermal/Column Compartment:</p> <ul style="list-style-type: none"> - The thermal/column compartment must house two independent valves in the following configurations: injection, 6-port, and 10-port; - The thermal/column compartment must monitor a minimum of two columns for usage and automatically log the information to the audit trail; and - The thermal/column compartment must house a minimum of 3 column sets up to a maximum of 300mm in length with associated pre column of 50mm in length and two optional heat exchangers. 	
M5	<p>Carbohydrate IC Electrochemical Detector</p> <ul style="list-style-type: none"> - The electrochemical detector must operate in an integrated amperometry, pulsed amperometry, or DC amperometry mode; and - The cell electrodes must be available in the following material options: gold, silver, platinum, and glassy carbon. 	
M6	<p>IC System Software:</p> <ul style="list-style-type: none"> - The operating system must be compatible with Windows 7 Professional, 64 bit; if not available, 32 bit to ensure compatibility with local area network; - Carbohydrate IC instrument must have software and hardware capability to analyze and automatically re-inject samples. Method may include data system selection of a smaller loop, reduced direct injection volume ("partial loop" injection) or true "vial to vial" sample dilution; and - The Bidder must provide all software updates and new releases to the purchaser for a period of one year following the acceptance, at no additional cost. 	

M7	<p>Computer Requirements:</p> <p>The vendor must supply a computer system for the Carbohydrate IC system to provide complete control of all of the Carbohydrate IC system components, and acquisition of data.</p> <ul style="list-style-type: none"> - The system must have the following minimum specifications and features: <ul style="list-style-type: none"> o CPU inter core I7-3770 with 8 meg cache, 3.0 GHZ; o 8 gig memory 1600 MHZ (2 module); o Minimum 250 gig 3.5 SATA; o Integrated Network Card; o 1 gig memory for video; o Minimum of 6 USB ports; o Minimum 16x DVD +/-RW Drive; and o 3 year support and 3 year next business day on-site warranty. - The monitor must have the following minimum specifications and features: <ul style="list-style-type: none"> o Size: 22" – 24" monitor (flat screen); o Built in speaker; o Minimum 1 USB port; o Resolution: 1920 x 1080; and o VGA and DVI Connectivity. <p>The system must have all the necessary cables for connection to and communication with all Carbohydrate IC system components.</p>	
M8	<p>The Carbohydrate IC system, including all components and the computer and monitor, must fit on a bench top that is 59 inches in width, 64 inches in height, and 28 inches in depth, for operational use. The computer system must be no larger than a standard-sized desktop PC.</p>	

4.1.2 Financial Evaluation

1. The Bidder must submit pricing in accordance with Annex B, Basis of Payment, in Canadian Funds;
2. The evaluated price is the aggregate of the Firm Extended Prices at Annex B – Basis of Payment, calculated as Quantity multiplied by Firm Unit Price offered by the bidder. Optional Requirement pricing will not be a part of the evaluation.

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

4.2 Basis of Selection – Mandatory Technical Criteria

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 *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, 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 *Ineligibility and Suspension Policy* (<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](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to 31 March 2019 inclusive.

6.4.2 Delivery Date

The firm deliverables must be received on or before 31 March 2017.

6.4.3 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A 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 the expiry of the Contract by sending a written notice to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Solicitation No. - N° de l'invitation
01E91-170829/A
Client Ref. No. - N° de réf. du client
01E91-170829

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-6-39115

Buyer ID - Id de l'acheteur
TOR007
CCC No./N° CCC - FMS No./N° VME

Name: Hussain Noor
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
33 City Centre Dr., Suite 480C
Mississauga, ON
L5N 2N5

Telephone: 905-615-2080
Facsimile: 905-615-2060
E-mail address: Hussain.Noor@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 *(to be inserted at contract award)*

The Project Authority for the Contract is:

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 *(to be completed by bidder)*

Name: _____
Title: _____
Organization: _____
Address: _____
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 unit price as specified in Annex B, Basis of Payment, 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

If applicable, where payment of invoices will be made using electronic payment instruments, Refer to Annex "C" Electronic Payment Instruments, where the Bidder indicated which electronic payment instruments are accepted and change the text below accordingly.

Delete 6.6.3 if bidder does not accept electronic payment

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:
 - 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 _____.

Solicitation No. - N° de l'invitation
01E91-170829/A
Client Ref. No. - N° de réf. du client
01E91-170829

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-6-39115

Buyer ID - Id de l'acheteur
TOR007
CCC No./N° CCC - FMS No./N° VME

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, (2016-04-04) General Conditions – Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____. *(to be inserted at contract award)*

6.11 Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

ANNEX A

REQUIREMENT

A1. Objective

The Guelph Research and Development Centre, Agriculture and Agri-Food Canada has a requirement to purchase a new Carbohydrate Ion Chromatography (IC) Instrument.

The Carbohydrate IC Instrument must include:

- a. Carbohydrate IC Solvent Delivery System;
- b. Carbohydrate IC Autosampler;
- c. Carbohydrate IC Thermal/Column Compartment;
- d. Carbohydrate IC Electrochemical Detector;
- e. IC System Software;
- f. Computer System and Monitor;
- g. CSA Approval prior to delivery;
- h. Installation; and
- i. On-site Training.

A2. Firm Requirement

Carbohydrate IC Solvent Delivery System:

- The pumping system must be either quaternary low pressure mixing, isocratic, or capillary design;
- The pumping system must operate at pressure of 5000 psi; and
- The gradient pump must support unlimited number of linear, convex, and concave eluent gradient profiles.

Carbohydrate IC Auto Sampler:

- The autosampler must perform full-loop and partial-loop injections;
- The autosampler must be configurable in either push or pull injection mode;
- The autosampler capacity must be flexible to accommodate a minimum of eighty-one (81) 10mL vials, and one-hundred-and-twenty (120) 1.5mL vials;
- The instrument must sample a minimum volume of 10 µL from a 300 µL microvial or 20 µL from a 500 µL microvial;
- The instrument must perform fraction collection and sample reinjection; and
- The instrument must set and control sample tray temperature in a range of 4-60 °C.

Carbohydrate IC Thermal/Column Compartment:

- The thermal/column compartment must house two independent valves in the following configurations: injection, 6-port, and 10-port;
- The thermal/column compartment must monitor a minimum of two columns for usage and automatically log the information to the audit trail; and
- The thermal/column compartment must house a minimum of 3 column sets up to a maximum of 300mm in length with associated pre column of 50mm in length and two optional heat exchangers.

Carbohydrate IC Electrochemical Detector

- The electrochemical detector must operate in an integrated amperometry, pulsed amperometry, or DC amperometry mode; and
- The cell electrodes must be available in the following material options: gold, silver, platinum, and glassy carbon.

IC System Software:

- The operating system must be compatible with Windows 7 Professional, 64 bit or 32 bit (if 64 bit not available) to ensure compatibility with local area network;
- Carbohydrate IC instrument must have software and hardware to analyze and automatically re-inject samples. Method may include data system selection of a smaller loop, reduced direct injection volume ("partial loop" injection) or true "vial to vial" sample dilution; and
- The Contractor must provide all software updates and new releases for a period of one year following the acceptance of the equipment.

Computer Requirements:

The Contractor must supply a computer system for the Carbohydrate IC system to provide complete control of all of the Carbohydrate IC system components, and acquisition of data.

- The system must have the following minimum specifications and features:
 - o CPU inter core I7-3770 with 8 meg cache, 3.0 GHZ;
 - o 8 gig memory 1600 MHZ (2 module);
 - o Minimum 250 gig 3.5 SATA;
 - o Integrated Network Card;
 - o 1 gig memory for video;
 - o Minimum of 6 USB ports;
 - o Minimum 16x DVD +/-RW Drive; and
 - o 3 year support and 3 year next business day on-site warranty.
- The monitor must have the following minimum specifications and features:
 - o Size: 22" – 24" monitor (flat screen);
 - o Built in speaker;
 - o Minimum 1 USB port;
 - o Resolution: 1920 x 1080; and
 - o VGA and DVI Connectivity.

The system must have all the necessary cables for connection to and communication with all Carbohydrate IC system components.

The Carbohydrate IC system, including all components and the computer and monitor, must fit on a bench top that is 59 inches in width, 64 inches in height, and 28 inches in depth, for operational use. The computer system must be no larger than a standard-sized desktop PC.

The Contractor must provide (2) two copies of the site preparation documents at the award of the contract.

CERTIFICATION

Carbohydrate IC Instrument must have the following certification:

- Canadian Standards Association (CSA) certification (www.csagroup.org/global/en/about-csa-group/certification-marks-labels); or an equivalent proof of certification or proof of equivalency must be recognized by SCC (Standard Council of Canada) (www.scc.ca).

MANUALS

The following Manuals must be included with Carbohydrate Ion Chromatography (IC) Instrument:

- The Contractor must provide the Carbohydrate Ion Chromatography (IC) System Technical Manual.

A3. Installation and Training

The Contractor must provide installation including labor and travel and on-site operator training for up to (4) four people. Training is to include usage instruction on all software and hardware components, routine maintenance requirements and equipment troubleshooting. All the deliverables, including the installation and training, must be received on or before March 31, 2017.

A4. Optional Warranty

The Contractor must provide an optional one year Hardware and Services Warranty for the entire system beginning at the expiration of the standard warranty. The Optional Hardware and Service Warranty must include all parts, labour and travel associated with the work.

A5. Delivery

The Carbohydrate IC system must be delivered to the following address:
Agriculture and Agri-Food Canada
Guelph Research and Development Centre
95 Stone Road West
Guelph, ON N1H 8J7

Solicitation No. - N° de l'invitation
01E91-170829/A
Client Ref. No. - N° de réf. du client
01E91-170829

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-6-39115

Buyer ID - Id de l'acheteur
TOR007
CCC No./N° CCC - FMS No./N° VME

ANNEX B

BASIS OF PAYMENT

Firm, all inclusive price in Canadian Funds. F.O.B destination including all delivery and installation charges, Canadian Customs Duties and excise taxes included as applicable. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) is to be shown separately, if applicable.

1. Firm Requirement

Item #	Description	Quantity	Firm Unit Price	Extended Price
1	Carbohydrate Ion Chromatography System	1	\$	\$
2	Installation	1	\$	\$
3	Training-onsite	1	\$	\$

Total Firm Requirement Extended Price: \$

TOTAL EVALUATED PRICE \$

2. Optional Requirement

Item #	Description	Quantity	Firm Unit Price	Extended Price
1	Optional Warranty as per Annex A	1	\$	\$
Total Cost				\$

Total Optional Requirement Extended Price: \$

Solicitation No. - N° de l'invitation
01E91-170829/A
Client Ref. No. - N° de réf. du client
01E91-170829

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-6-39115

Buyer ID - Id de l'acheteur
TOR007
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)