



**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

<b>Title - Sujet</b> Dual Channel Ion Chromatograph (IC)	
<b>Solicitation No. - N° de l'invitation</b> KW405-190395/B	<b>Date</b> 2018-12-31
<b>Client Reference No. - N° de référence du client</b> KW405-190395	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-009-7697	
<b>File No. - N° de dossier</b> TOR-8-41144 (009)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2019-02-11</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Holvec, Monique	<b>Buyer Id - Id de l'acheteur</b> tor009
<b>Telephone No. - N° de téléphone</b> (905) 615-2062 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF THE ENVIRONMENT 867 Lakeshore Road Burlington Ontario L7S 1A1 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
KW405-190395/A		tor009
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
KW405-190395	TOR-8-41144	

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with this bid solicitation.

### **1.2 Requirement**

The requirement is detailed under Article 6.2 of the resulting contract clauses.

### **1.3 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.

### **1.4 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).

### **1.5 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.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 120 days

## 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:

Courier/Post: Bid Receiving Unit – PWGSC Ontario Region  
33 City Center Drive, Suite 480C  
Mississauga ON L5B 2N5

epost: [TPSGC.orreceptiondessoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.orreceptiondessoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca)

**(Offers will 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)**

Facsimile: 905-615-2095

## 2.3 Enquiries - Bid Solicitation

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

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the 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 (Canada).

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 (2 hard copies)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications (2 hard copies)

- 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

### 3.1.3 SACC Manual Clauses

#### 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

Mandatory and point rated technical evaluation criteria are included in Annex "D" - *Technical Evaluation Criteria*.

#### 4.1.2 Financial Evaluation

The Bidder must submit with its bid, pricing details in accordance with Annex "B" - *Basis of Payment*, in Canadian funds. Pricing must be provided for the initial contract period and optional years.

Bids will be evaluated based on the prices detailed in Annex "B" – *Basis of Payment*.

The price used in the evaluation will be the Total Evaluated Cost which is calculated as follows: Total Evaluated Cost is the sum of the Firm Requirement and all the Optional Goods and Services.

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

### 4.2 Basis of Selection

#### 4.2.1 Basis of Selection – Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
  - a. comply with all the requirements of the bid solicitation; and
  - b. meet all mandatory technical evaluation criteria; and

- c. obtain the required minimum of 525 points overall for the technical evaluation criteria which are subject to point rating.  
 The rating is performed on a scale of 700 points.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70 % for the technical merit and 30 % for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70 %.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30 %.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

**Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)**

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		115/135	89/135	92/135
Bid Evaluated Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
	Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
Combined Rating		83.84	75.56	80.89
Overall Rating		1st	3rd	2nd

**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.

### **5.2.3 OEM Certification**

Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit Annex "E" *OEM's certification* regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the

hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.

For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

#### **5.2.4 Software Publisher Certification and Software Publisher Authorization**

If the Bidder is the Software Publisher for any of the proprietary software products it bids, Canada requires that the Bidder confirm in writing that it is the Software Publisher. Bidders are requested to use Annex "E" - *Software Publisher Certification Form* included with the bid solicitation. Although all the contents of the Software Publisher Certification Form are required, using the form itself to provide this information is not mandatory. For bidders who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

Any Bidder that is not the Software Publisher of all the proprietary software products proposed in its bid is required to submit proof of the Software Publisher's authorization, which must be signed by the Software Publisher (not the Bidder). No Contract will be awarded to a Bidder who is not the Software Publisher of all of the proprietary software it proposes to supply to Canada, unless proof of this authorization has been provided to Canada. If the proprietary software proposed by the Bidder originates with multiple Software Publishers, authorization is required from each Software Publisher. Bidders are requested to use the Software Publisher Authorization Form included with the bid solicitation. Although all the contents of the Software Publisher Authorization Form are required, using the form itself to provide this information is not mandatory. For Bidders/Software Publishers who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

In this bid solicitation, "Software Publisher" means the owner of the copyright in any software products proposed in the bid, who has the right to license (and authorize others to license/sub-license) its software products.

## **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**

There is no security requirement applicable to the Contract.

### **6.2 Requirement**

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

### **6.2.2 Optional Goods and/or Services**

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex "B" – *Basis of Payment* 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.

### **6.2.3 Option to Extend the Contract**

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to seven (7) additional one (1) year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at any time before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

## **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

[4003](#) (2010-08-16), Licensed Software

[4004](#) (2013-04-25), Maintenance and Support Services for Licensed Software

## **6.4 Term of Contract**

### **6.4.1 Period of the Contract**

The period of the Contract is from date of Contract Award to March 31, 2021 inclusive.

### **6.4.2 Delivery Date - Firm Requirement**

All the deliverables for the firm requirement must be received on or before March 29, 2019.

### **6.4.3 Delivery Points**

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

## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Monique Holvec  
Title: Supply Specialist  
Public Works and Government Services Canada  
Directorate: Acquisitions Branch / Mississauga  
Address: 33 City Centre Drive, Suite 480C  
Mississauga, Ontario, Canada  
L5B 2N5  
Telephone: 905-615-2062  
Facsimile: 905-615-2060  
E-mail address: [monique.holvec@pwgsc-tpsgc.gc.ca](mailto:monique.holvec@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 Technical Authority

The Technical Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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

### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

#### 6.5.4 After-sales support

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

#### 6.6 Payment

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

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price(s), as specified in in Annex "B" for a cost of \$ \_\_\_\_\_ insert the amount at contract award). 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 Method of Payments

SACC Manual clause H1001C (2008-05-12) Multiple Payments

SACC Manual clause H3028C (2010-01-11) Advance Payment (for sections 2.2 and 2.3 in Annex "B" - *Basis of Payment*, if exercised)

##### 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)

##### 6.6.5 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Requirement and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

All three (3) Systems must be delivered to the locations specified in Annex A – *Requirement*, where they will undergo full acceptance tests carried out by the Contractor under the supervision of the Technical Authority or designated representative. Each lab will be responsible for acceptance testing of their specific unit(s).

## 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 \_\_\_\_\_.

## 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 supplemental general conditions:
  - 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance
  - 4003 (2010-08-16), Licensed Software
  - 4004 (2013-04-25), Maintenance and Support Services for 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) Annex E, Certifications; and
- (g) the Contractor's bid dated \_\_\_\_\_.

## 6.11 SACC Manual Clauses

SACC Manual clause B7500C (2006-06-16) Excess Goods  
SACC Manual clause B1501C Electrical Equipment (2018-06-21)

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## 6.12 Insurance Requirements

SACC Manual clause G1005C (2016-01-28) Insurance, No Specific Requirement

## ANNEX "A"

### REQUIREMENT

#### 1. SCOPE

##### 1.1. Introduction

The Environmental Services and Technology Laboratory (ESTL), a division within Environment and Climate Change Canada, has a requirement for the supply, delivery, installation and qualification of three (3) systems as follows:

- One (1) single channel high pressure ion chromatograph capable of performing anion analysis;
- One (1) one dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses; and
- One (1) one dual channel high pressure ion chromatograph capable of performing anion/cation analyses.

##### 1.2. Objective

The Environmental Services and Technology Laboratory provides analytical services which support a large number of Environment Canada programs, both at the regional and national level. ESTL calls for increasing laboratory efficiency and productivity.

The intent of a "dual channel Ion Chromatograph system" is to have one (1) Ion Chromatograph (IC) system that is capable of performing two (2) simultaneous chemistries, controlled by one (1) computer and fed by one (1) auto sampler. We are seeking ICs with the latest computing and data handling technological capabilities that will increase throughput and productivity and that operate unattended outside regular laboratory operating hours.

##### 1.3. Relevant Terms, Acronyms and Glossaries

###### APPROPRIATE ANALYTICAL COLUMN

Anions analysis and cations analysis require different analytical columns and eluent suppression. "Appropriate" indicates that anion specific equipment is to be supplied for anion analysis and cation specific equipment is to be supplied for cation analysis

###### ASTM

American Society for Testing and Materials

###### ECCC

Environment and Climate Change Canada

###### EPA

Environmental Protection Agency

###### ESTL

Environmental Services and Technology Laboratory

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FIELD UPGRADABLE	means that the system must be able to be easily upgraded to a dual channel system in situ (in the lab) with no need to return the equipment to the manufacturer to complete the work
IC	Ion Chromatograph
NLET	National Laboratory of Environmental Testing
OEM	Original Equipment Manufacturer
PEEK	Polyether Ether Ketone
QLET	Quebec Laboratory of Environmental Testing
QUALIFICATION	means the final series of inspections and tests to ensure that critical requirements necessary for operation and analysis are satisfied
SYSTEM 1	Single Channel Ion Chromatograph
SYSTEM 2	Dual Channel High Pressure Ion Chromatograph capable of sequential anion/anion analyses
SYSTEM 3	Dual Channel High Pressure Ion Chromatograph capable of anion/cation analyses

## **2. GENERAL REQUIREMENTS**

### **2.1. Documentation**

The Contractor must provide at the time of delivery, in hard copy or electronic format, in English, one (1) set per unit, including: (a) after-sales services and (b) Software and Operator Manuals containing the latest technical information related to the ICs as follows:

- OEM Software Manual: must include all the instructions required for the proper operation and use of the instrument software provided.
- OEM Operator Manual: must provide all instructions required for the safe operation of the equipment, including a detailed description of all available features and how to use them. Must also include routine inspection and preventative maintenance for both types of ICs.
- After-sales support: The contractor must provide warranty coverage details and after-sales contact information.

**Note:** A French version of the above documentation is desirable, but not mandatory.

### **2.2. Delivery and Installation**

The Contractor must deliver and install the three (3) Systems in satisfaction of the contract requirements as follows:

2.2.1 All deliverables for the following two (2) units:

- (1) one single channel high pressure ion chromatograph capable of performing anion analysis; and
- (1) one dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses

Must occur by loading dock at the following address:

National Laboratory of Environmental Testing (NLET)  
867 Lakeshore Road  
Burlington, ON L7S 1A1

2.2.2 All deliverables for the following one (1) unit:

- (1) one dual channel high pressure ion chromatograph capable of performing anion/cation analyses

Must occur by loading dock at the following address:

Quebec Laboratory of Environmental Testing (QLET)  
105 McGill Street  
Montreal, QC H2Y 2E7

## 2.3. Calibration

All three (3) systems must be calibrated on-site, at the specific lab where they are installed. During installation, each system must be able to reproduce the values of the mandatory specifications.

## 2.4. On-Site End-User Training

The Contractor must provide on-site operator training at NLET in Burlington (ON) for Systems 1 & 2 and at QLET in Montreal (QC) for System 3. Training duration must be minimum three (3) days per system (7.5 hours per day and during the day time) and provided on-site after the delivery and installation of each system. Training to be provided to a minimum of two (2) operators for each of the three (3) systems. The training must provide the operators with in-depth knowledge of the operational control of the software and hardware, included but not limited to, start-up, safe operation, shut down procedures, daily/routine maintenance procedures and features.

**Note:** Training in French at QLET in Montreal (QC) is desirable, but not mandatory.

## 2.5. Technical Support

The Contractor must provide technical assistance services by trained technical personnel for a period of one (1) year from the date of installation and acceptance, with support to be delivered on-site if necessary and at the expense of the Contractor.

2.5.1 Availability – The Contractor must:

- a. ensure that full service support and replacement parts are available for the duration of the Contract; and

- b. without limiting the generality of Section 2.5.1.(a), provide Canada with a one (1) year written notification prior to the Equipment parts no longer being available, and failing such notification, the Contractor must provide Canada sufficient notice to ensure that Canada may purchase the parts that are no longer available.

2.5.2 Service Desk – A support service desk function must be provided to help Canada in answering questions with respect to the Equipment that includes, at a minimum:

- a. telephone technical support between the hours of 08:00 and 17:00 (Eastern Time), Monday to Friday, excluding statutory holidays;
- b. e-mail technical support with a response within 48 hours excluding weekends and statutory holidays; and
- c. on-line help resources, including contact information, product information and documentation downloads (e.g. product brochures, technical manuals).

2.5.3 Product Notifications – Canada must be advised in writing as soon as it becomes known, in the event of:

- a. any safety-related product recalls or advisories, component defects, and other similar events;
- b. any security vulnerabilities that are subsequently discovered;
- c. any hidden or previously unknown defects that are subsequently discovered that may adversely affect product performance and/or functionality; and
- d. updates to software and product manuals.

2.5.4 Software Support:

- a. The Contractor must provide Maintenance Releases for the duration of the Contract.
- b. All provided proprietary software must be of the most current version and must be provided with a full end-user license not limited in time, and provided with a backup CD/DVD disk(s)/USB.

## **2.6. Minimum Mandatory Technical Specifications**

2.6.1 System 1 must meet each of the following thirteen (13) specifications:

Item	Specification
1	The High Pressure (minimum 5,000 psi) Single Channel Ion Chromatograph (System 1) must be modular and consist of components which are interchangeable and compatible with the dual channel High Pressure Ion Chromatograph (System 2).
2	The High Pressure Single Channel IC must be equipped with chemistry to analyze anions.
3	System 1 must be Field Upgradable to a Dual Channel System.
4	System 1 must include appropriate analytical column and eluent suppression for the chemistry specified.
5	System 1 must have inert, non- metallic PEEK (polyether ether ketone) fluidic components throughout the system to ensure solvent compatibility and metal contamination-free chromatography.
6	System 1 must come with a computer with Windows 10, capable of operating instrument operation software and minimum one (1) TB hard drive. Accessories include minimum 24" display monitor, mouse and key board.
7	Windows based software for full instrument control, digital data collection and data handling must be included. Software must be Windows 10 compatible. The Windows based software must be able to process acquired data offline on a separate Windows 10 computer (not supplied by Contractor).
8	Eluent for anions must be hydroxide based.
9	System 1 must come complete with on line eluent production capable of producing hydroxide based eluent.
10	System 1 must come complete with a high capacity (100 plus positions) intelligent auto sampler.

<b>11</b>	System 1 must have leak sensor for laboratory safety and management to allow fast response to system leaks.
<b>12</b>	System 1 must have system pressure monitoring capability
<b>13</b>	System 1 must include one (1) complete starter kit including all consumables, tubing and connections between the instrument and the data acquisition system to operate the system immediately. Please include description of consumable specifications in your submission (for example, column type, length and diameter). Starter kit should be specific to anions chemistry requested for this system.

2.6.2 System 2 must meet each of the following twelve (12) specifications:

<b>Item</b>	<b>Specification</b>
<b>1</b>	One High Pressure (minimum 5,000 psi) Dual Channel System (System 2) must be one (1) Ion Chromatograph System, controlled by one (1) computer and fed by one (1) auto sampler. The system must be capable to double the analysis productivity while minimizing the use of space and resources. The Dual Channel Ion Chromatograph must have dual channel capability for the sequential analysis of anions on both channels.
<b>2</b>	System 2 must be equipped with identical chemistries to analyze anions on both channels.
<b>3</b>	System 2 must include appropriate analytical column and eluent suppression for the chemistries specified.
<b>4</b>	System 2 must have inert, non-metallic PEEK (polyether ether ketone) fluidic components throughout the system to ensure solvent compatibility and metal contamination-free chromatography.
<b>5</b>	System must come with a computer with Windows 10, capable of operating instrument operation software and minimum one (1) TB hard drive. Accessories include minimum 24" display monitor, mouse and key board.

<b>6</b>	Windows based software for full instrument control, digital data collection and data handling must be included. Software must be Windows 10 compatible. The Windows based software must be able to process acquired data offline on a separate Windows 10 computer (not supplied by Contractor).
<b>7</b>	Eluent for anions must be hydroxide based.
<b>8</b>	System must come complete with on line eluent production for both channels, each channel capable of producing hydroxide based eluent.
<b>9</b>	System 2 must come complete with a high capacity (100 plus positions) intelligent auto sampler with capability to service dual channels simultaneously.
<b>10</b>	System 2 must have leak sensor for laboratory safety and management to allow fast response to system leaks.
<b>11</b>	System 2 must have system pressure monitoring capability.
<b>12</b>	System 2 must include two (2) complete starter kits (one for each channel) including all consumables, tubing and connections between the instrument and the data acquisition system to operate the system immediately. Please include description of consumable specifications in your submission (for example, column type, length and diameter). Starter kits should be specific to anions chemistry requested for this system.

2.6.3 System 3 must meet each of the following twelve (12) specifications:

Item	Specification
1	One High Pressure (minimum 5000 psi) Dual Channel System (System 3) must be one (1) Ion Chromatograph System, controlled by one (1) computer and fed by one (1) auto sampler. The system must be capable to double the analysis productivity while minimizing the use of space and resources. The Dual Channel Ion Chromatograph must have dual channel capability for the analysis of anions on one channel and cations on the other channel.
2	System 3 must be equipped with anion chemistry to analyze anions on one channel and cation chemistry to analyze cations on the other channel.
3	System 3 must include appropriate analytical columns and eluent suppressions for the chemistries specified.
4	System 3 must have inert, non- metallic PEEK (polyether ether ketone) fluidic components throughout the system to ensure solvent compatibility and metal contamination-free chromatography.
5	System must come with a computer with Windows 10, capable of operating instrument operation software and minimum one (1) TB hard drive. Accessories include minimum 24" display monitor, mouse and key board.
6	Windows based software for full instrument control, digital data collection and data handling must be included. Software must be Windows 10 compatible. The Windows based software must be able to process acquired data offline on a separate Windows 10 computer (not supplied by Contractor).
7	Eluent for anions must be hydroxide based. Eluent for cations must be acid based.
8	System must come complete with on line eluent production for each channel, one channel capable of producing hydroxide based eluent and the second channel capable of producing acid based eluent.
9	System 3 must come complete with a high capacity (100 plus positions) intelligent auto sampler with capability to service dual

	channels simultaneously.
10	System 3 must have leak sensor for laboratory safety and management to allow fast response to system leaks.
11	System 3 must have system pressure monitoring capability.
12	System 3 must include two (2) complete starter kits (one for each channel) including all consumables, tubing and connections between the instrument and the data acquisition system to operate the system immediately. Please include description of consumable specifications in your submission (for example, column type, length and diameter). Starter kits should be specific to anion and cation chemistry requested for the two channels of this system.

## 2.7 Additional Requirements

### 2.7.1 Methods

Analytical chemistries provided for anion and cation analyses must be based on standardized methods, such as EPA, Standard Methods or ASTM methods.

### 2.7.2 Warranty - Hardware

The Contractor must warrant purchased equipment to be free of defects in material and workmanship and the warranty must cover both parts and labour for a minimum of two (2) years from the date of installation and acceptance by ESTL Project Authority or designated representative.

The Contractor must perform equipment maintenance for all three (3) Ion Chromatographs and all three (3) computers, including all preventive maintenance in accordance with manufacturer's recommended maintenance schedule and all maintenance service repairs. This includes, but is not limited to, annual check-up with clean-up of all components and recalibration of the units at the end of each year for the duration of the contract.

### 2.7.3 Maintenance & Support - Software

The Contractor must provide one (1) year of software maintenance & support, including but not limited to, software upgrades and on-site support when issues cannot be resolved on-line or by phone.

## ANNEX "B"

### BASIS OF PAYMENT

All inclusive, firm lot prices in Canadian funds, delivery and transportation included, FOB destination, Canadian Customs duties and excise taxes included. GST/HST extra if applicable.

For requirement, please refer to Annex "A" - *Requirement*.

Note: Upon issuance of the Contract, wording that is italicized will be deleted from Annex "B".

### 1.0 FIRM REQUIREMENT

Firm Lot Price is the price per system including, but not limited to, delivery, installation, calibration, training, two (2) year warranty and one (1) year maintenance & support as described in Annex "A" - *Requirement*.

Item No.	Description	Qty.	Unit of Issue	Firm Lot Price
1	<p><b>System 1:</b> single channel high pressure ion chromatograph capable of performing anion analysis.</p> <p>Delivery, installation, calibration and training location:</p> <p>National Laboratory of Environmental Testing (NLET) 867 Lakeshore Road Burlington, ON L7S 1A1</p> <p>Manufacturer:</p> <p>_____</p> <p>Model: _____</p>	1	EA	\$
2	<p><b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses.</p> <p>Delivery, installation, calibration and training location:</p>	1	EA	\$

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CCC No./N° CCC - FMS No./N° VME

	National Laboratory of Environmental Testing (NLET) 867 Lakeshore Road Burlington, ON L7S 1A1  Manufacturer: _____  Model: _____			
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses.  Delivery, installation, calibration and training location:  Quebec Laboratory of Environmental Testing (QLET) 105 McGill Street Montreal, QC H2Y 2E7  Manufacturer: _____  Model: _____	1	EA	\$
<b>Total:     \$ _____</b> <b>(applicable taxes extra)</b>				

## 2.0 OPTIONAL GOODS AND SERVICES

Canada may purchase any or all of the optional goods and services at any time during the period of the contract.

### 2.1 Optional Hardware

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Item No.	Description	Qty.	Unit of Issue	Firm Lot Price
1	<p>Online water purification system feeding purified water directly to System 2 and including supply, installation, calibration and delivery to the following location:</p> <p>National Laboratory of Environmental Testing (NLET) 867 Lakeshore Road Burlington, ON L7S 1A1</p> <p>Manufacturer: _____</p> <p>Model: _____</p>	1	EA	\$
2	<p>Auto-dilution system for System 3, which independently perform dilutions using a partial-loop system and including supply, installation, calibration and delivery to the following location:</p> <p>Quebec Laboratory of Environmental Testing (QLET) 105 McGill Street Montreal, QC H2Y 2E7</p> <p>Manufacturer: _____</p> <p>Model: _____</p>	1	EA	\$

<b>3</b>	<p>Ten (10) port valve for System 3 including supply, installation, calibration and delivery to the following location:</p> <p>Quebec Laboratory of Environmental Testing (QLET)          105 McGill Street          Montreal, QC H2Y 2E7</p> <p>Manufacturer:</p> <p>_____</p> <p>Model: _____</p>	<b>1</b>	<b>EA</b>	<b>\$</b>
<b>4</b>	<p>Package of consumables for System 3 for (1) year supply (assuming 1,000 samples) of consumables for each chemistry (including, column guard column, suppressor, eluent cartridge, vials, etc.). Complete list of items being offered to be provided.</p> <p>Delivery location:</p> <p>Quebec Laboratory of Environmental Testing (QLET)          105 McGill Street          Montreal, QC H2Y 2E7</p> <p>Manufacturer:</p> <p>_____</p> <p>Model: _____</p>	<b>1</b>	<b>EA</b>	<b>\$</b>

## 2.2 Option Years: Extended Warranty

For evaluation purposes, Annual Price will be multiplied by Quantity of one (1).

### 2.2.1 Option 1, Year 3: April 1, 2021 to March 31, 2022

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

### 2.2.2 Option 2, Year 4: April 1, 2022 to March 31, 2023

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

### 2.2.3 Option 3, Year 5: April 1, 2023 to March 31, 2024

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ (applicable taxes extra)		

### 2.2.4 Option 4, Year 6: April 1, 2024 to March 31, 2025

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ (applicable taxes extra)		

### 2.2.5 Option 5, Year 7: April 1, 2025 to March 31, 2026

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

#### 2.2.6 Option 6, Year 8: April 1, 2027 to March 31, 2028

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

### 2.3 Maintenance & Support - Software

#### 2.3.1 Option 1, Year 2: April 1, 2020 to March 31, 2021

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

### 2.3.2 Option 2, Year 3: April 1, 2021 to March 31, 2022

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

### 2.3.3 Option 3, Year 4: April 1, 2022 to March 31, 2023

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

#### 2.3.4 Option 4, Year 5: April 1, 2023 to March 31, 2024

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

#### 2.3.5 Option 5, Year 6: April 1, 2024 to March 31, 2025

Item No.	Description	Annual Price
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1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

**2.3.6 Option 6, Year 7: April 1, 2025 to March 31, 2026**

Item No.	Description	Annual Price
1	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
2	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
3	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

**2.3.7 Option 7, Year 8: April 1, 2027 to March 31, 2028**

Item No.	Description	Annual Price
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<b>1</b>	<b>System1:</b> single channel high pressure ion chromatograph capable of performing anion analysis	\$ _____
<b>2</b>	<b>System 2:</b> dual channel high pressure ion chromatograph capable of performing sequential anion/anion analyses	\$ _____
<b>3</b>	<b>System 3:</b> dual channel high pressure ion chromatograph capable of performing anion/cation analyses	\$ _____
<b>Total:</b> \$ _____ <b>(applicable taxes extra)</b>		

### 3.0 TOTAL EVALUATED PRICE

<b>Section</b>	<b>Total Price</b>
1. Firm Requirement (Items 1, 2 and 3)	\$
2. Optional Goods and Services – 2.1 Optional Hardware (Items 1, 2, 3 and 4)	\$
3. Optional Goods and Services – 2.2 Option Years: Extended Warranty (Items 2.2.1, 2.2.2, 2.2.3, 2.2.4, 2.2.5 and 2.2.6)	\$
4. Optional Goods and Services – 2.3 Maintenance & Support – Software (Items 2.3.1, 2.3.2, 2.3.3, 2.3.4, 2.3.5, 2.3.6 and 2.3.7)	\$
<b>Total Evaluated Price (sum of Total Price 1 to 4)</b>	<b>\$</b>

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## **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)

## ANNEX "G"

### TECHNICAL EVALUATION CRITERIA

#### 3. MANDATORY TECHNICAL CRITERIA

- 1.1 Bidders must demonstrate that their proposed products meet every mandatory criteria below by providing proof (either by providing a compliance statement, a technical report or an instrument report) in their bids. Failure to demonstrate compliance will result in the bid being deemed non-responsive, and be given no further consideration.
- 1.2 Each mandatory technical criterion should be addressed separately.
- 1.3 System 1 must meet each of the specifications outlined below:

Item	Specification	Identify where the supporting documentation is located in the bid package (page number(s))
M1	The High Pressure (minimum 5,000 psi) Single Channel Ion Chromatograph (System 1) must be modular and consist of components which are interchangeable and compatible with the dual channel High Pressure Ion Chromatograph (System 2).	
M2	System 1 must be equipped with chemistry to analyze anions.	
M3	System 1 must be Field Upgradable to a Dual Channel System.	
M4	System 1 must include appropriate (*) analytical column and eluent suppression for the specified chemistry. (*) Refer to Annex "A" – <i>Requirement</i> , Section 1.3	

<b>M5</b>	System 1 must have inert, non- metallic PEEK (polyether ether ketone) fluidic components throughout the system to ensure solvent compatibility and metal contamination-free chromatography.	
<b>M6</b>	System 1 must come with a computer with Windows 10, capable of operating instrument operation software and minimum one (1) TB hard drive. Accessories include minimum 24" display monitor, mouse and key board.	
<b>M7</b>	Windows based full-feature software for full instrument control, digital data collection and data handling must be included. Software must be Windows 10 compatible. The Windows based software must be able to process acquired data offline on a separate Windows 10 computer.	
<b>M8</b>	Eluent for anions must be hydroxide based.	
<b>M9</b>	System 1 must come complete with on line eluent production capable of producing hydroxide based eluents.	
<b>M10</b>	System 1 must come with a high capacity (100 plus positions) intelligent auto sampler.	
<b>M11</b>	System 1 must have leak sensor for laboratory safety and management to allow fast response to system leaks.	
<b>M12</b>	System 1 must have system pressure monitoring capability.	

1.4 System 2 must meet each of the specifications outlined below:

Item	Specification	Identify where the supporting documentation is located in the bid package (page number(s))
<b>M1</b>	One High Pressure (minimum 5,000 psi) Dual Channel System (System 2) must be one (1) Ion Chromatograph System, controlled by one (1) computer and fed by one (1) auto sampler. The system must be capable to double the analysis productivity while minimizing the use of space and resources. The Dual Channel Ion Chromatograph must have dual channel capability for the sequential analysis of anions on both channels.	
<b>M2</b>	System 2 must be equipped with identical chemistries to analyze anions on both channels.	
<b>M3</b>	System 2 must include appropriate analytical column and eluent suppression for the specified chemistries. (*) Refer to Annex "A" - <i>Requirement</i> , Section 1.3	
<b>M4</b>	System 2 must have inert, non- metallic PEEK (polyether ether ketone) fluidic components throughout the system to ensure solvent compatibility and metal contamination-free chromatography.	
<b>M5</b>	System 2 must come with a computer with Windows 10, capable of operating instrument operation software and minimum 1 TB hard drive. Accessories include minimum 24" display monitor, mouse and key board.	
<b>M6</b>	Windows based full-feature software for full instrument control, digital data collection and data handling must be included. Software must be Windows 10 compatible. The Windows based software must be able to process acquired data offline on a separate Windows 10 computer.	
<b>M7</b>	Eluent for anions must be hydroxide based.	
<b>M8</b>	System 2 must come complete with on line eluent production capable of producing hydroxide based eluents.	

<b>M9</b>	System 2 must come with a high capacity (100 plus positions) intelligent auto sampler with capability to service dual channels simultaneously.	
<b>M10</b>	System 2 must have leak sensor for laboratory safety and management to allow fast response to system leaks.	
<b>M11</b>	System 2 must have system pressure monitoring capability.	

1.5 System 3 must meet each of the specifications outlined below:

<b>Item</b>	<b>Specification</b>	<b>Identify where the supporting documentation is located in the bid package (page number(s))</b>
<b>M1</b>	One High Pressure (minimum 5,000 psi) Dual Channel System (System 3) must be one (1) Ion Chromatograph System, controlled by one (1) computer and fed by one (1) auto sampler. The system must be capable to double the analysis productivity while minimizing the use of space and resources. The Dual Channel Ion Chromatograph must have dual channel capability for the analysis of anions on one channel and cations on the other channel.	
<b>M2</b>	System 3 must be equipped with anion chemistry to analyze anions on one channel and cation chemistry to analyze cations on the other channel.	
<b>M3</b>	System 3 must include appropriate analytical columns and eluent suppressions for the specified chemistries. (*) Refer to Annex "A" – <i>Requirement</i> , Section 1.3	
<b>M4</b>	System 3 must have inert, non- metallic PEEK (polyether ether ketone) fluidic components throughout the system to ensure solvent compatibility and metal contamination-free chromatography.	
<b>M5</b>	System 3 must come with a computer with Windows 10, capable of operating instrument operation software and minimum 1 TB hard drive. Accessories include minimum 24" display monitor, mouse and key board.	

<b>M6</b>	Windows based full-feature software for full instrument control, digital data collection and data handling must be included. Software must be Windows 10 compatible. The Windows based software must be able to process acquired data offline on a separate Windows 10 computer.	
<b>M7</b>	Eluent for anions must be hydroxide based. Eluent for cations must be acid based.	
<b>M8</b>	System 3 must come complete with on line eluent production capable of producing both hydroxide and acid based eluents.	
<b>M9</b>	System 3 must come with a high capacity (100 plus positions) intelligent auto sampler with capability to service dual channels simultaneously.	
<b>M10</b>	System 3 must have leak sensor for laboratory safety and management to allow fast response to system leaks.	
<b>M11</b>	System 3 must have system pressure monitoring capability.	

## 2. Point Rated Technical Criteria

### Rating Scale: the total maximum points available is 700 points

Bids deemed responsive against all mandatory technical criteria will be evaluated against the point rated technical criteria specified in the eleven (11) sections below. Proposals must achieve at least 525 points (75%) overall.

Bids which fail to obtain the required minimum number of points specified will be declared non-responsive.

All three (3) systems should be similar instrument models and have similar performance characteristics, therefore the Point Rated Evaluation will only be performed for System 3.

Each point rated technical criterion should be addressed separately.

#### 2.1 Pump:

##### **Maximum points available: 80 points**

**Note:** A minimum requirement is an isocratic high pressure pump with built in vacuum degas. Gradient capability is not required. Control of the degas operation should be automated to sense when degassing is required.

Identify where the  
supporting  
documentation is located  
in the bid package (page  
number(s))

2.1.1 Dual Pump Isocratic with Degas	N or Y	0 or 10 pts.	
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Eluent pump flow rate:				
2.1.2 Accuracy	Greater than 0.1% %	Value	5 pts.	
	0.1 % or less	Value	10 pts	
2.1.3 Precision	Greater than 0.1% %	Value	5 pts.	
	0.1% or less	Value	10 pts	
2.1.4 Range, Analytical	0-10mL/min	Value	5 pts.	
	Wider than 0-10 mL/min	Value	10 pts	
2.1.5 Maximum pump pressure when configured with eluent generation:	5000 psi or greater	Value	40 pts	

2.2 On-line eluent production capability, hydrolysis preferred:  
**Maximum points available: 150 points**

2.2.1 Hydroxide based by hydrolysis	N or Y	0 or 75 pts.	
2.2.2 Acid based by hydrolysis	N or Y	0 or 75 pts.	

2.3 Variable cell temperature control (detector):  
**Maximum points available: 40 points**

2.3.1 Temperature range	20-50°C	Value	10 pts.	
	Wider than 20-50°C	Value	20 pts	
2.3.2 Temperature stability	Greater than 0.001 °C	Value	10 pts.	
	0.001°C or less	Value	20 pts	

2.4 Suppression:  
**Maximum points available: 50 points**

Typical background conductivity after suppression:				
2.4.1 Hydroxide	Greater than 0.5 uS/cm	Value	5 pts.	
	0.5 uS/cm or lower	Value	10 pts	
2.4.2 MSA	Greater than 0.5uS/cm	Value	5 pts.	
	0.5 uS/cm or lower	Value	10 pts	

2.4.3 Electrolytic suppression	N or Y	0 or 30 pts.	
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2.5 CO<sub>2</sub> removal capability:  
**Maximum points available: 40 points**

2.5.1 CO <sub>2</sub> removal capability	N or Y	0 or 40 pts.	
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2.6 System pressure monitoring:  
**Maximum points available: 50 points**

**Note:** A minimum desirable requirement for evaluation is pressure monitoring at the beginning of the analysis. This minimum requirement will be awarded 30 points in technical merits. Further enhancements in pressure monitoring which benefit Environment Canada will receive further points. Full points (50) will be awarded to systems with pressure monitoring in real-time throughout the entire the analysis.

2.6.1 Pressure monitoring at beginning of analysis	N or Y	0 or 10 pts.	
2.6.2 Real time pressure monitoring throughout run	N or Y	0 or 40 pts.	

2.7 Analyte detection limits at 3-sigma:  
**Maximum points available: 80 points**

2.7.1 Specify for Fluoride:	Greater than 10 ug/L	Value	10 pts.	
	10 ug/L or less	Value	20 pts	
2.7.2 Specify for Chloride:	Greater than 10 ug/L	Value	10 pts.	
	10 ug/L or less	Value	20 pts	
2.7.3 Specify for Nitrate:	Greater than 5 ug/L	Value	10 pts.	
	5 ug/L or less	Value	20 pts	
2.7.4 Specify for Sulfate:	Greater than 10 ug/L	Value	10 pts.	
	10 ug/L or less	Value	20 pts	

2.8 Full Scale Linear Dynamic Range of Detector:  
**Maximum points available: 50 points**

2.8.1 Digital Output	Less than 15,000 uS/cm	Value	10 pts.	
	15,000 uS/cm or higher	Value	50 pts	

2.9 High capacity (100 plus positions) intelligent auto sampler with capability to service dual channels simultaneously:

**Maximum points available: 50 points**

**Note:** A minimum requirement for evaluation is an auto sampler with more than 100 positions and the capability to service dual channels. This minimum requirement will be

awarded 10 points in the technical merits. Further enhancements in auto sampler functions which benefit Environment Canada will receive further points. Full points (50) will be awarded to auto samplers which have the ability to preload a sample prior to the completion of the previous sample to reduce overall cycle time.

2.9.1 As stated above Auto sampler with >100 positions and capable of servicing dual channels	N or Y	0 or 10 pts.	
2.9.2 Sample Preload option	N or Y	0 or 40 pts.	

2.10 Auto dilution features to handle out of range samples:

**Maximum points available: 50 points**

**Note:** A minimum requirement for evaluation is operator preprogramming of dilution factors. This minimum requirement will be awarded 10 points in the technical merits. Further enhancements in auto dilution functions which benefit Environment Canada will receive further points. Full points (50) will be awarded to systems which can automatically detect and perform required dilutions using partial-loop injections.

2.10.1 As stated above Operator preprogramming of dilution factors	N or Y	0 or 10 pts.	
2.10.2 Intelligent auto dilution determined by software	N or Y	0 or 40 pts.	

2.11 Windows based software for instrument control and data handling:

**Maximum points available: 60 points**

2.11.1 Audit trail capability	N or Y	0 or 10 pts.	
2.11.2 Multi-tasking capability	N or Y	0 or 10 pts.	
2.11.3 Automated diagnostics, quality and performance qualifiers ( OQ/PQ ) :	N or Y	0 or 20 pts.	
2.11.4 Sample Preload option Auto Ranging and Auto Offset Capability:	N or Y	0 or 20 pts.	

Solicitation No. - N° de l'invitation  
KW405-190395/A  
Client Ref. No. - N° de réf. du client  
KW405-190395

Amd. No. - N° de la modif.  
File No. - N° du dossier  
TOR-8-41144

Buyer ID - Id de l'acheteur  
tor009  
CCC No./N° CCC - FMS No./N° VME

## ANNEX "E"

### CERTIFICATIONS

Form 1 OEM Certification Form	
This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.	
Name of OEM	_____
Signature of authorized signatory of OEM	_____
Print Name of authorized signatory of OEM	_____
Print Title of authorized signatory of OEM	_____
Address for authorized signatory of OEM	_____
Telephone no. for authorized signatory of OEM	_____
Fax no. for authorized signatory of OEM	_____
Date signed	_____
Solicitation Number	_____
Name of Bidder	_____

Solicitation No. - N° de l'invitation  
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Buyer ID - Id de l'acheteur  
tor009  
CCC No./N° CCC - FMS No./N° VME

**Form 2**  
**Software Publisher Certification Form**  
(to be used where the Bidder itself is the Software Publisher)

The Bidder certifies that it is the software publisher of all the following software products and that it has all the rights necessary to license them (and any non-proprietary sub-components incorporated into the software) on a royalty-free basis to Canada pursuant to the terms set out in the resulting contract:

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*[bidders should add or remove lines as needed]*

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Buyer ID - Id de l'acheteur  
tor009  
CCC No./N° CCC - FMS No./N° VME

**Form 3**  
**Software Publisher Authorization Form**  
(to be used where the Bidder is not the Software Publisher)

This confirms that the software publisher identified below has authorized the Bidder named below to license its proprietary software products under the contract resulting from the bid solicitation identified below. The software publisher acknowledges that no shrink-wrap or click-wrap or other terms and conditions will apply, and that the contract resulting from the bid solicitation (as amended from time to time by its parties) will represent the entire agreement, including with respect to the license of the software products of the software publisher listed below. The software publisher further acknowledges that, if the method of delivery (such as download) requires a user to "click through" or otherwise acknowledge the application of terms and conditions not included in the bid solicitation, those terms and conditions do not apply to Canada's use of the software products of the software publisher listed below, despite the user clicking "I accept" or signaling in any other way agreement with the additional terms and conditions.

This authorization applies to the following software products:

\_\_\_\_\_

\_\_\_\_\_

*[bidders should add or remove lines as needed]*

Name of Software Publisher (SP) \_\_\_\_\_

Signature of authorized signatory of SP \_\_\_\_\_

Print Name of authorized signatory of SP \_\_\_\_\_

Print Title of authorized signatory of SP \_\_\_\_\_

Address for authorized signatory of SP \_\_\_\_\_

Telephone no. for authorized signatory of SP \_\_\_\_\_

Fax no. for authorized signatory of SP \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_