



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving
- PWGSC

1550 Avenue d'Estimauville

1550 D'Estimauville Avenue

Québec

Québec

G1J 0C7

FAX pour soumissions: (418) 648-2209

**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

Title - Sujet HP Liquid Chromatograph	
Solicitation No. - N° de l'invitation 23331-180659/A	Date 2017-12-04
Client Reference No. - N° de référence du client 23331-180659	
GETS Reference No. - N° de référence de SEAG PW-\$QCW-030-17274	
File No. - N° de dossier QCW-7-40201 (030)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-15	Time Zone Fuseau horaire Heure Normale du l'Est HNE
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Roy, Alain	Buyer Id - Id de l'acheteur qcw030
Telephone No. - N° de téléphone (418) 649-2845 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Ressources naturelles Canada Jason Ahad 490, rue de la Couronne Tél : (418) 654-3721 QUEBEC Québec G1K9A9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

TPSGC - PWGSC

601 - 1550 Avenue d'Estimauville

Québec

Québec

G1J 0C7

Delivery Required - Livraison exigée Voir doc	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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed at article 6.2 of the Resulting Contract Clauses section.

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 America Free Trade Agreement (NAFTA) and the Canadian Free Trade Agreement (CFTA).

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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

B1000T (2014-06-26) Condition of material – Bid

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.

Your proposal can be transmitted by fax to # 418-648-2209 or by mail to the following address:

Bid Receiving Unit
Public Works and
Government Services Canada (PWGSC)
1550 D'Estimauville Avenue
Quebec City, Quebec, Canada, G1J 0C7

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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.

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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 the Province of Quebec.

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 (1 hard copies)

Section II: Financial Bid (1 hard copies)

Section III: Certifications (1 hard 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 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 – Annex B. The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

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

3.1.2 SACC Clause

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

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words "must" or "mandatory" is a mandatory requirement.

Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

4.1.1.1 Mandatory Technical Criteria

The bidder must include with its proposal:

1. The Table of technical compliance below duty filled-in:

The supplied equipment and services must meet or better all of the requirements defined below. The supplied equipment is to be new, not used or refurbished. Systems not meeting all the following Mandatory Requirements will be considered non-compliant.

Bidder must provide with their proposal technical literature/brochures, operating manuals, written documentation (such as a description of system components and capabilities) etc to demonstrate compliance with each area of the criteria stated below at time of bid closing. Proposal evaluation will be based upon the information supplied with the bid only. Failure to demonstrate compliance with any area of the criteria will render your proposal non-responsive and no further consideration will be given. References are to be specific to supporting documentation (ex. document title, page and paragraph number). *Please note that compliance must be demonstrated (by submission of supporting documentation such as technical literature/brochures, operating manuals, written statement describing how requirement is meet etc.) and that if an offeror only states "comply" without any further detail, this is not considered as a demonstration compliance.*

4.1.1.2 Table of Technical Compliance

Bidders must propose an equipment which must not be a prototype or a test unit but a standard proven product of the manufacturer and contain reliable state-of-the-art technology.

Although bidders must propose products meeting all mandatory specifications and components outlined in Annex "A"; at the bid closing date, bids will be evaluated on following preselected mandatory specifications and components:

Mandatory Technical Specifications :		Bidder's Specifications (should indicate the reference to the technical specifications of the proposed equipment or indicate the exact information)
HPLC Pump and Column Control System		
1.	Must allow for quaternary solvent blending.	
2.	The operating flow rate must be capable of reaching up to at least 5 mL/min	
3.	There must be a heating/cooling system that supports columns up to 300 mm	
Photodiode Array Detector		
4.	The wavelength detection range must cover at least 190-800 nm (a wider range is acceptable).	
5.	The software must allow the detector to operate as a single wavelength, multi-wavelength or spectral detector.	
Fraction Collector		
6.	Peak detection and collection must be fully compatible with the photodiode array detector.	
7.	The unit must offer a variety of fraction collection modes of operation, including those based on retention time and peak threshold.	
Autosampler		
8.	The injection volume range must cover from 0.1 µL up to at least 2000 µL	
Data Instrument / Electrical Supply		
9.	The HPLC system must come with a computer and monitor.	
10.	The software will allow updates to be carried out OFFLINE, since this instrument will NOT be connected to the internet.	

Projects	
<p>11. The bidder must demonstrate that it has a proven and successful experience in the production of HPLC systems coupled to a photodiode detector and a fraction collector.</p> <p>The Bidder must submit in its proposal three (3) projects valued at 50,000.00\$ and over completed within the last five (5) years (from the bid closing date).</p> <p>The bidder should include in his Proposal, the following information for each project ;</p> <ul style="list-style-type: none"> (i) The date of sale (ii) The value of the Project (iii) The User contact information that should include the name of the organization, address, contact person, telephone and email. <p><i>You may use the template that is under the table or any other document to meet this criterion.</i></p> <p><i>The provided information may be verified with the user to check and certify the accuracy of the information.</i></p> <p><i>If the information certification does not match the above requirements, the bid will be declared non responsive.</i></p>	

4.1.1.3 Proposed model for answer to criterion no. 11

The bidder should include in his bid the following information for each project;		Project 1	Project 2	Project 3
(i)	Date of Sale			
(ii)	Project Value			
(iii)	Brief Description of the Project			
The contact details of the user, which should include:		Project 1	Project 2	Project 3
a)	Name of the Organization			
b)	Address			
c)	Contact Person			
e)	Telephone			
f)	E-mail			

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4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation and all the mandatory technical criteria to be declared responsive. The responsive bid with the lowest Total Bid Price (TBP) (Annex B) 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 website](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) (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

5.2.3 Bidder certifies that All Equipment is "Off-the-Shelf"

Any equipment bid to meet this requirement must be "off-the-shelf" (unless otherwise stated in this bid solicitation), meaning that each item of equipment is commercially available and requires no further research or development and is part of an existing product line with a field-proven operational history (that is, it has not simply been tested in a laboratory or experimental environment). If any of the equipment bid is a fully compatible extension of a field-proven product

line, it must have been publicly announced on or before the bid closing date. By submitting a bid, the Bidder is certifying that the entire equipment bid is off-the-shelf.

5.2.4 OEM Certification (Annex C)

- (a) 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 the 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). **(Annex C)**

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.

- (b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.
- (c) For the purposes of this bid solicitation, EOM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

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 this contract.

6.2 Requirement

The Contractor must supply and deliver one (1) High Performance Liquid Chromatography (HPLC), in accordance with the Requirement described at Annex "A".

6.2.1 Condition of Material - Contract

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

6.2.2 Optional Requirement

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.

Option: (Annex B: Goods - Table B2)

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

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

[2030](#) (2016-04-04), 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 contract period is from the date of contract award to March 31st 2020.

6.4.2 Delivery Date

6.4.2.1

All the deliverables of the firm quantity of the Basis of Payment, Annex B (B1) must be received on or before six (6) weeks after contract awarded.

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6.4.2.2

Goods of the Options of the Basis of Payment, Annex B (B2) must be received on or before six (6) weeks following the written notice sent to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Alain Roy
Title: a/ Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch

Address 1550, D'Estimauville Ave., Quebec, QC. G1J 0C7
Telephone: 418-649-2845
Facsimile: 418-648-2209
E-mail address: Alain.Roy.que@pwgsc.gc.ca

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

6.5.2 Project Authority

The Project Authority for the Contract is: [\(will be added at the contract\)](#)

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 Client Administrative Authority

The Client Administrative Authority for the Contract is: [\(will be added at the contract\)](#)

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

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The Client Administrative Authority must receive the original invoice. Any request for payment must be addressed to the Client Administrative Authority.

6.5.3 Contractor's Representative

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

6.6 Payment

6.6.1 Basis of Payment

i. Initial Contract

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$ _____ *insert the amount at contract award*). Customs duties are *included* and Applicable Taxes are extra.

ii. Contract Extension Option (Goods: Table B2)

During the extended period of the Contract, the Contractor will be paid the firm price of \$ _____ *insert amount at contract award*) to perform all the Work in relation to the contract extension.

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 Price

SACC Manual Clause C6000C, (2017-08-17), Limitation of Price
SACC Manual Clause C2000C, (2007-11-30), Taxes – Foreign-Based Contractor

6.6.3 Terms of payment

SACC Manual Clause H1001C, (2008-05-12) Multiple Payments

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 the Province of Quebec.

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;
- c) the supplemental general conditions 4003, (2010-08-16) Licensed Software
- d) the supplemental general conditions 4004, (2013-04-25) Maintenance and Support Services for Licensed Software
- e) the General Conditions 2030 (2016-04-04) Higher Complexity - Goods;
- f) Annex A, Requirement;
- g) Annex B, Basis of payment;
- h) Annex C, Certification and Bidder Forms;
- i) the Contractor's bid dated _____ (*insert date of bid*)

6.11 SACC Manual Clauses

G1005C	2016-01-28	Insurance
B1501C	2006-06-16	Electrical Equipment
B7500C	2006-06-16	Excess Goods
D9002C	2007-11-30	Incomplete Assemblies

6.12 Inspection and Acceptance

The Project 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 Statement of Work 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.

6.13 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the contract, delivered DDP Delivered Duty Paid; Natural Resources Canada (NRC), 490, Rue de la Couronne, Québec, Québec, G1K 9A9, Canada, as per Incoterms 2000 for shipments from commercial contractor.

ANNEX « A »

STATEMENT OF REQUIREMENT

1. TITLE

HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) SYSTEM

2. CONTEXT

The Geological Survey of Canada (GSC-Québec), Earth Sciences Sector, NRCAN, requires a high-performance liquid chromatography (HPLC) system interfaced with a Photodiode Array Detector (PAD) and Fraction Collector. This new instrument will play a key role in the continued development and expansion of the Delta-Lab's (GSC-Québec) "environmental isotope organic geochemistry" capabilities, but most importantly the system is necessary to fulfil the research obligations outlined in our Program of Energy Research and Development (PERD)-funded project ("Quantifying sources of polycyclic aromatic hydrocarbons (PAHs) in Canada's oil sands region"). This PERD-funded project falls under the framework of the Environment Geoscience Program's SOURCES Project (SOURCE apportionment Using isotope Ratio Characterization of oil sands Environmental samples; 2014-2019). The new HPLC fraction collector system will also play an important role in research to be carried out under future Environment Geoscience Program projects scheduled to begin in 2019.

3. GENERAL REQUIREMENTS

Experience

The vendor must demonstrate a proven and successful track record of production of HPLC systems interfaced with a Photodiode Array Detector and Fraction Collector. Vendors will be required to identify at least three installations over the past five years and provide points of contact and related information

No prototypes, demonstration models or used/refurbished instruments will be considered. The instrument model offered for sale must be available on the market.

Warranty

The vendor must guarantee a minimum one-year warranty on all parts and labour beginning on the date of acceptance of the system and commissioning of goods. During the warranty period, hardware upgrades developed by the manufacturer to increase performance and/or reliability of the instrument, must be provided free of charge.

4. TECHNICAL SPECIFICATIONS

Specifications of the High-Performance Liquid Chromatography (HPLC) System Coupled with a Photodiode Array Detector (PAD) and a Fraction Collector

4.1 HPLC Pump and Column Control System

- 4.1.1 Must allow for quaternary solvent blending.
- 4.1.2 The operating flow rate must be capable of reaching up to at least 5 mL/min
- 4.1.3 The delay volume must be < 700 µL.
- 4.1.4 Must have a vacuum degassing system with separate vacuum chambers for each solvent.
- 4.1.5 The flow precision must be < 0.1% RSD with a flow accuracy of ± 1%.

- 4.1.6 Measured at 1 ml/min, the compositional accuracy must be < 0.5% and the compositional precision must be < 0.5%.
- 4.1.7 There must be a heating/cooling system that supports columns up to 300 mm

4.2 Photodiode Array Detector

- 4.2.1 The noise sensitivity must be equal to or less than 10 µAU.
- 4.2.2 The wavelength detection range must cover at least 190-800 nm (a wider range is acceptable).
- 4.2.3 The digital and optical resolution must be equal to or better than 1.2 nm.
- 4.2.4 Must allow for flexible sampling rates for normal and fast LC separations from 1 to 80 Hz.
- 4.2.5 The software must allow the detector to operate as a single wavelength, multi-wavelength or spectral detector.
- 4.2.6 The software must allow for simultaneous 2D and 3D operation.

4.3 Fraction Collector

- 4.3.1 Peak detection and collection must be fully compatible with the photodiode array detector.
- 4.3.2 The unit must offer a variety of fraction collection modes of operation, including those based on retention time and peak threshold.
- 4.3.3 The unit must be controlled either through a local keypad or by serial port communication.
- 4.3.4 The system must allow for pooling of repeated runs into common vessels
- 4.3.5 The unit must come equipped with a test tube rack capable of holding between 100-150 tubes.
- 4.3.6 The system must be compatible with a wide range of optional adapter racks and collection vessels.

4.4 Autosampler

- 4.4.1 Linearity must be >0.999 coefficient of deviation for injections from 1-100 µL.
- 4.4.2 Precision must be equal to or less than 0.5% for injections from 5-80 µL.
- 4.4.3 The injection volume range must cover from 0.1 µL up to at least 2000 µL.
- 4.4.4 The sample capacity must be at least 120 standard 2 mL vials.
- 4.4.5 The needle wash system should use fresh solvent with each injection.
- 4.4.6 The needle height control must be programmable

4.5 Data Instrument / Electrical Supply

- 4.5.1 The HPLC system must be fully automated and allow unattended operation.
- 4.5.2 The HPLC system must come with a computer and monitor.
- 4.5.3 The software which operates the HPLC system must be Windows-based
- 4.5.4 The software will allow updates to be carried out OFFLINE, since this instrument will NOT be connected to the internet.
- 4.5.5 The instrument must connect to the standard Canadian electrical supply, i.e., 110 V, 15 Amps, single-phase, 60 Hz AC. If an electrical device (e.g., transformer) is required to connect the system to the electrical supply, it must be included in the price.

4.6 Option to Purchase Additional Equipment (Annex B – B2 Option: Goods)

The Contractor must provide the following options in accordance with the indicated specifications.

- 4.6.1 *Mass Detector:* The HPLC system must allow for an optional mass detection unit that is fully compatible with the system being purchased (i.e., no additional pumps, fraction collection units or autosamplers are required). The mass detector must contain the following features:
 - Ionization source flow rate compatibility to 2 mL/min
 - Rapid positive/negative ionization mode switching (i.e., less than 30 ms).

- Scan speed to 10,000 Da/s.
- Automated acquisition in either single ion monitoring or full scan mode in m/z range 30-1250.
- 100-240 V ac (50/60 Hz) power supply compatibility.
- Must be able to acquire both full scan and single ion monitoring data at the same time.
- The unit must have a dry (oil-free) exhaust-free vacuum backing pump.
- The detector can be incorporated in or on the pre-existing HPLC system to minimise bench space requirements.

4.6.2 Autosampler: An optional temperature control module should be available for controlling the sample temperature compartment between 4 and 40°C (in 1° increments).

5. **INSTALLATION**

A complete installation of the equipment must be carried out on a date to be agreed between the Contractor and the Technical Authority but no later than six (6) weeks after delivery. Installation must be performed by a qualified technician.

6. **DELIVERABLES**

The instrument must be delivered to GSC-Québec with all cables, pipes, power cords, fittings and other accessories required for installation and operation, as well as the complete operating and maintenance manuals.

7. **TRAINING**

The Contractor must provide on-site training at a date to be set between the Contractor and the Technical Authority, ideally following installation. User training should be in English. Manuals and other documentation may be in English and if available, in French as well.

8. **STANDARDS**

The instrument must comply with Canadian standards and regulations for safety and electromagnetic compatibility.

ANNEX « B »

BASIS OF PAYMENT

B1. Price – firm quantity

#	Description	Qty	UD	Firm unit price	Firm price total (CAD)
1	<p>High-Performance Liquid Chromatography System (HPLC)</p> <p>In accordance with the specifications described in Annex "A", including:</p> <ul style="list-style-type: none"> - All cables, hoses, power cords, fittings and other accessories required for installation - User manual and other documentation in French and / or in English <p>Specify the make and model of equipment:</p> <p>Make : _____</p> <p>Model : _____</p>	1	EA	\$	\$
2	- Complete installation on site by a qualified technician	1	LOT	\$	\$
3	- On-site training in English for users	1	LOT	\$	\$
4	DDP (Quebec City, Quebec, Canada), including customs duties, handling, delivery and unloading.	1	LOT	\$	\$
TOTAL (TABLE B1) =					\$
Note: Price in Canadian dollars excluding applicable sales taxes					

B2. Price – Option: Goods

#	Description	Qty	UD	Firm unit price	Firm price total (CAD)
The firm prices listed below will be applied if the call option is exercised before March 31, 2020.					
1	<p>Mass Detector In accordance with the specifications described in Annex "A" including: <i>Mass Detector:</i> The HPLC system must allow for an optional mass detection unit that is fully compatible with the system being purchased (i.e., no additional pumps, fraction collection units or autosamplers are required). The mass detector must contain the following features:</p> <ul style="list-style-type: none"> • Ionization source flow rate compatibility to 2 mL/min • Rapid positive/negative ionization mode switching (i.e., less than 30 ms). • Scan speed to 10,000 Da/s. • Automated acquisition in either single ion monitoring or full scan mode in m/z range 30-1250. • 100-240 V ac (50/60 Hz) power supply compatibility. • Must be able to acquire both full scan and single ion monitoring data at the same time. • The unit must have a dry (oil-free) exhaust-free vacuum backing pump. • The detector can be incorporated in or on the pre-existing HPLC system to minimise bench space requirements. 	1	EA	\$	\$
2	<p>Autosampler In accordance with the specifications described in Annex "A" including: An optional temperature control module should be available for controlling the sample temperature compartment between 4 and 40°C (in 1° increments).</p>	1	EA	\$	\$
3	DDP (Quebec City, Quebec, Canada), including customs duties, handling, delivery and unloading.	1	LOT	\$	\$
TOTAL TABLE B2 =					\$
TOTAL BID PRICE (TBP) (TABLE B1 + TABLE B2) =					\$
Note: Price in Canadian dollars excluding applicable sales taxes					

N° de l'invitation - Solicitation No.
23331-180659/A
N° de réf. du client - Client Ref. No.
23331-180659

N° de la modif - Amd. No.
File No. - N° du dossier
QCW-7-40201

Id de l'acheteur - Buyer ID
QCW030
N° CCC / CCC No./ N° VME - FMS

ANNEX « C »

CERTIFICATION AND BIDDER FORMS

Form – To be submitted with bid

5.2.4. OEM Certification

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 _____

Bidder's name _____