



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

Room 1650, 635 8th Ave. S.W.

Calgary

Alberta

T2P 3M3

Bid Fax: (403) 292-5786

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/Travaux
publics et Services gouvernementaux Canada

Room 1650, 635 8th Ave. S.W.

Calgary

Alberta

T2P 3M3

Title - Sujet Lab Equipment- LCMS	
Solicitation No. - N° de l'invitation 31970-184484/A	Date 2017-10-23
Client Reference No. - N° de référence du client 31970-184484	
GETS Reference No. - N° de référence de SEAG PW-\$CAL-140-6651	
File No. - N° de dossier CAL-7-40061 (140)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-12-04	Time Zone Fuseau horaire Mountain Standard Time MST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Saboungi, Rana	Buyer Id - Id de l'acheteur cal140
Telephone No. - N° de téléphone (403) 680-8394 ()	FAX No. - N° de FAX (403) 292-5786
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: NATIONAL RESEARCH COUNCIL CANADA National Institute for Nanotechno 11421 SASKATCHEWAN DRIVE EDMONTON Alberta T6G2M9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

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

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is subject to the provisions the North American Free Trade Agreement (NAFTA), the Canadian Free Trade Agreement (CFTA), the Canada-Chile Free Trade Agreement (CCFTA), the Canada-Colombia Free Trade Agreement (CCOFTA), and the Canada-Panama Free Trade Agreement (CPAFTA).

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](#) (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 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.

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (one (1) hard copy)

Section II: Financial Bid (one (1) hard copy)

Section III: Certifications (one (1) hard copy)

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

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

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

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

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

Section I: Technical Bid

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

Section II: Financial Bid

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

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- (a) Bidder must be able to perform the full scope of the work described in the Annex A, “Requirement” and meet the Minimum Mandatory Performance Specifications detailed in the Compliance Matrix.
- (b) Bidder must complete the Compliance Matrix as detailed in Annex A, “Requirement”.

4.1.2 Financial Evaluation

SACC Manual Clause A0222T (2014-06-26), Evaluation of Price – Canadian/Foreign Bidders

The Total Bid Price will be determined as follows:

At Annex “B” – Basis of Payment:

- (a) For line 1, the quantity (A) will be multiplied by the firm unit price (B) to determine the Extended Price (C) for that line;
- (b) For line 2, the quantity (A) will be multiplied by the firm unit price (B) to determine the Extended Price (C) for that line; and
- (c) Line 1 plus line 2 minus line 3 of the Extended Price column will determine the Total Bid Price

4.2 Basis of Selection

4.2.1 Mandatory Technical Criteria

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

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

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

[2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

Section 09 entitled *Warranty of general conditions 2010A* is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

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, apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract award to TBD inclusive

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6.4.2 Delivery Date

All the deliverables must be received on or before March 31, 2018.

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: Rana Sabounji, Procurement Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1650, 635 8th Ave SW
Calgary, AB
T2P 3M3
Telephone: 403-680-8394
Facsimile: 403-292-5786
E-mail address: rana.sabounji@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: **to be determined**

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

(to be filled out by bidder)

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

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

6.6 Payment

6.6.1 Basis of Payment

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

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

6.6.2 Single Payment

H1000C (2008-05-12), Single Payment

6.6.3 Electronic Payment of Invoices – Contract

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

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 Alberta.

6.10 Priority of Documents

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

- (a) the Articles of Agreement;

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- (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 2010A (2016-04-04), General Conditions – Goods (Medium Complexity);
- (f) Annex A, Requirement;
- (g) Annex B, Basis of Payment
- (h) the Contractor's bid dated _____ (*insert date of bid*)

6.11 SACC Manual Clauses

<u>A9068C</u>	Government Site Regulations	2010-01-11
<u>B1501C</u>	Electrical Equipment	2006-06-16
<u>B7500C</u>	Excess Goods	2006-06-16
<u>C2000C</u>	Taxes - Foreign-based Contractor	2007-11-30
<u>G1005C</u>	Insurance	2016-01-28

6.12 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 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.

ANNEX "A"

REQUIREMENT

The National Research Council of Canada (NRC) has a requirement for one (1) new Liquid Chromatography with Single Quadrupole or comparable Mass Selective Detector (LCMS) to be delivered to Edmonton, Alberta, Canada. On-site installation and training are also required. The LCMS will be used for supporting internal research projects and servicing external clients. The vendor must provide a trade-in discount for the current LCMS at the Nanotechnology Research Centre (NRC Nano).

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

INSTALLATION AND TRAINING

The supplier must install and configure the LCMS in its entirety on site at the delivery address listed below at the complete expense of the supplier (including but not limited to travel expenses). The supplier must verify upon installation that the LCMS is operating in accordance with minimum performance specifications in the compliance matrix below. Installation must be coordinated with NRC Project Authority. Installation must be completed on or before March 31, 2018.

Training for the LCMS, its accessories and the software system must be provided by the supplier at the complete expense of the supplier (including but not limited to travel expenses). The supplier must train up to three persons at the delivery address listed below. Training must be coordinated with NRC Project Authority. Training must be completed by March 31, 2018.

TRADE-IN REQUIREMENTS

The supplier must provide a trade-in discount on NRC's current approximately 15 year old Agilent 1100 Single Quadrupole LCMS.

Refer to Annex "C" Used Microscope Information for photos and additional information regarding the current LCMS. Questions during the solicitation period regarding the used LCMS must be directed by email to rana.sabounqi@pwqsc-tpsgc.gc.ca

The used LCMS to be traded in will be retained by Canada until exchanged for the new LCMS. No adjustment will be made to the trade-in allowance to allow for depreciation arising out of normal wear and tear on the used LCMS between the time of contract award and the time the used LCMS is exchanged. The supplier agrees to collect the used LCMS when the new LCMS is installed and tested in accordance with the minimum mandatory performance specifications in Annex "A".

DELIVERY

All deliverables must be received on or before **March 31, 2018** at:

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

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

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

1. Bidders **must** show compliance by addressing each performance specification in the Compliance Matrix, whether the product offered "meets" or "doesn't meet".
2. Bidders are requested to indicate how they meet each performance specification by recording this information under the Performance Specification Offered column in the Compliance Matrix.
3. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Compliance Matrix for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
4. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
5. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
6. Failure to meet each mandatory performance specification will result in the bid being deemed non-responsive, and be given no further consideration.

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

Requirement	Manufacturer Offered:	Model number Offered
Liquid Chromatography with Single Quadrupole or comparable Mass Selective Detector (LCMS)		

Item #	Performance Specification	Performance Specification Met? Indicate either Yes/No	Performance Specification Offered: Bidder <u>should</u> indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents.
1	High Performance Liquid Chromatography (HPLC) unit			
1.1	Pump			
a	Quaternary or Binary			
b	Number of channels must be two (2) or four (4)			
c	Must have flow rate range from 0.1 mL/min to 5 ml/min or wider and flow rate must be user settable			
1.2	Autosampler			
a.	Must offer a flow through design with variable injection volume			
b	The draw and eject speed must be user settable			
c	The module must be able to inject sample volumes from 0.1 to 100 µL or wider range in 0.1 µL increments			
d	Rotor seals must support both normal phase and reverse phase application			
e	Metering device must have the capability to be flushed after injection			
f	Must be able to accommodate at least 100 vials (1-2mL capacity of the vial)			
1.3	Thermostated column compartment			
a	Must have temperature accuracy within $\pm 0.8^{\circ}\text{C}$			
b	Must have temperature range from 10°C below ambient to at least 75°C			
c	The module must be able to accommodate at least two 25cm length columns			
1.4	Degas Unit			

a	Stand-alone or integrated with pump			
b	Must be able to accommodate a minimum of 5 mL/min flow rate of mobile phase			
1.5	Diode array detector (DAD)			
a	Must have a minimum of 6 signal channels			
b	Must have a minimum sampling rate of 80 Hz			
c	Linearity to 2.0 Au or higher at 265nm			
d	Wavelength range 190 to 640nm or wider with an accuracy of ± 1 nm			
e	Output range of 0.001 to 2 Au or wider			
1.6	The system must be modularized to enable future addition of detectors			
1.7	Power supply: AC 90-240 V, 50/60Hz			
1.8	The Liquid Chromatograph (LC) unit must have leaking sensor to report leakage for individual module			
1.9	All units must have been released to the market within less than five (5) years on March 31, 2018			
2	Mass spectrometer			
2.1	The mass unit is single quadrupole unit or other comparable unit such as ion trap or orbital trap			
2.2	Mass to charge ratio (m/z) must cover 10-2500 or wider			
2.3	The mass unit can run both negative mode and positive mode in a single run			
2.4	The mass unit can run Scan mode and Selected Ion Monitoring (SIM) mode			
2.5	The mass unit must have dedicated Electron Spray Ionization (ESI) and Atmospheric Pressure Chemical Ionization (APCI) sources			
2.6	The signal to noise ratio for injecting 1pg of reserpine at m/z=609 ion (SIM and ESI positive ion) must be at least 250 or higher, for SIM and APCI positive ion must be at least 100 or higher			
2.7	The scan speed must be at least 10,000 Da/sec			
2.8	The mass stability over 12 hours must be less than 0.1 u (Da)			

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2.9	Mass accuracy must be within 0.01 u (Da)			
2.10	The dynamic range must be higher than 5x10 ⁶ (Electronic)			
2.11	Auto-tuning: Sensitivity and resolution must be optimized for both positive-ion and negative-ion modes			
2.12	The mass unit must have been released to the market within less than five (5) years on March 31, 2018			
3	Software			
3.1	Collect data, analyze data and report results			
3.2	Set-up parameters such as pump flow rate, column compartment temperature, UV-Vis wavelength selection, injection volume and mass parameters			
3.3	Mass spectra processing - must be able to de-convolute mass profile to allow calculation of high molecular weight (for molecules able to form multi-charged ions such as protein or peptide)			
3.4	Able to generate calibration curve using standards and quantify unknowns			
4	Computer System			
4.1	The computer system must be a Windows based system. Software supports minimum Windows 7.			
4.2	Minimum 21" LCD monitor.			
4.3	Minimum clock speed is 3.0 Ghz for the processor			
4.4	Minimum 8 GB RAM			
4.5	Minimum 1T Hard drive			
4.6	Minimum 16xDVD burner			
4.7	Minimum of six USB ports with at least two having USB 3.0			
4.8	Network card			
4.9	Video card must have a minimum of 512 MB onboard memory			
4.10	A black and white laser printer			

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cal140
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ANNEX "B"

BASIS OF PAYMENT

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified below. Applicable taxes will be added as a separate line item to any invoice issued as a result of the contract.

Line Number	Description	Unit of Issue	Quantity (A)	Firm Unit Price (B) USD or CAD	Extended Price (C) USD or CAD
1	LCMS in accordance with the mandatory performance specifications detailed in Annex "A." (Pricing is all inclusive including installation, training, and warranty)	Each	1	\$	\$
2	Delivery and offloading charges , FOB destination, to: National Research Council Canada (NRC) National Institute for Nanotechnology 11421 Saskatchewan Drive Edmonton, Alberta, T6G 2M9, Canada				\$
3	Trade-in discount on NRC's current approximately 15 years old Agilent 1100 Single Quadrupole LCMS	Each	1	\$	\$
Total Bid Price					\$

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ca1140
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ANNEX "C"

USED LCMS INFORMATION

LCMS description: Agilent 1100 Single Quadrupole LCMS

Condition of LCMS: operational

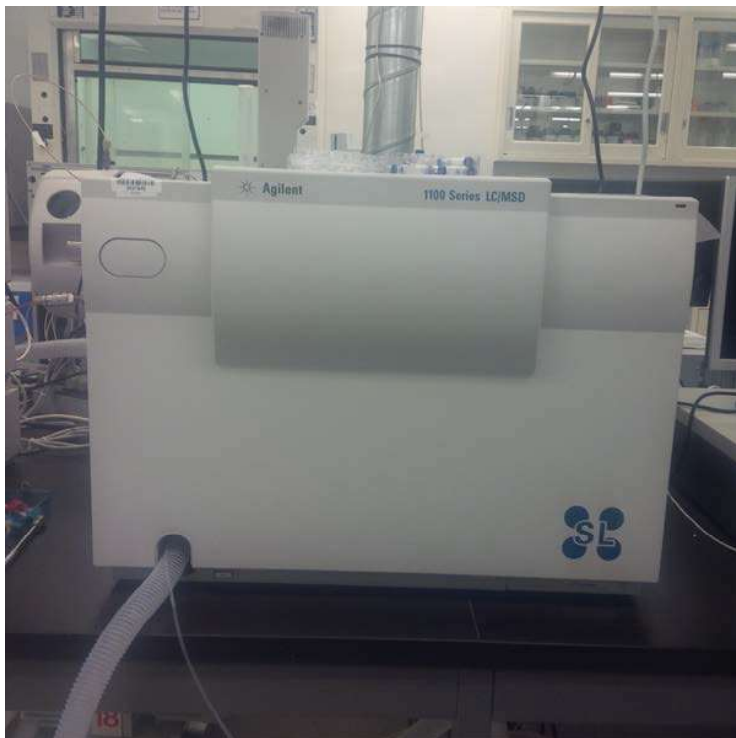
Maintenance: maintained regularly

Issues and problems with the LCMS: APCI mode is not working.

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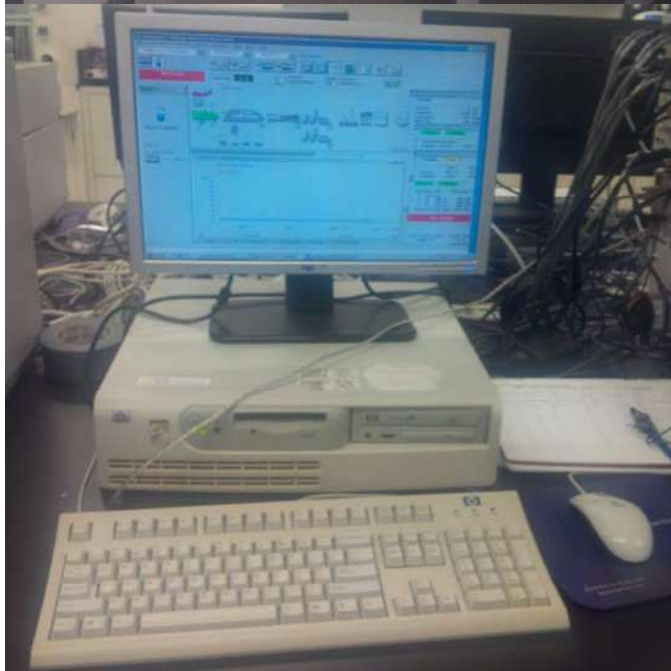
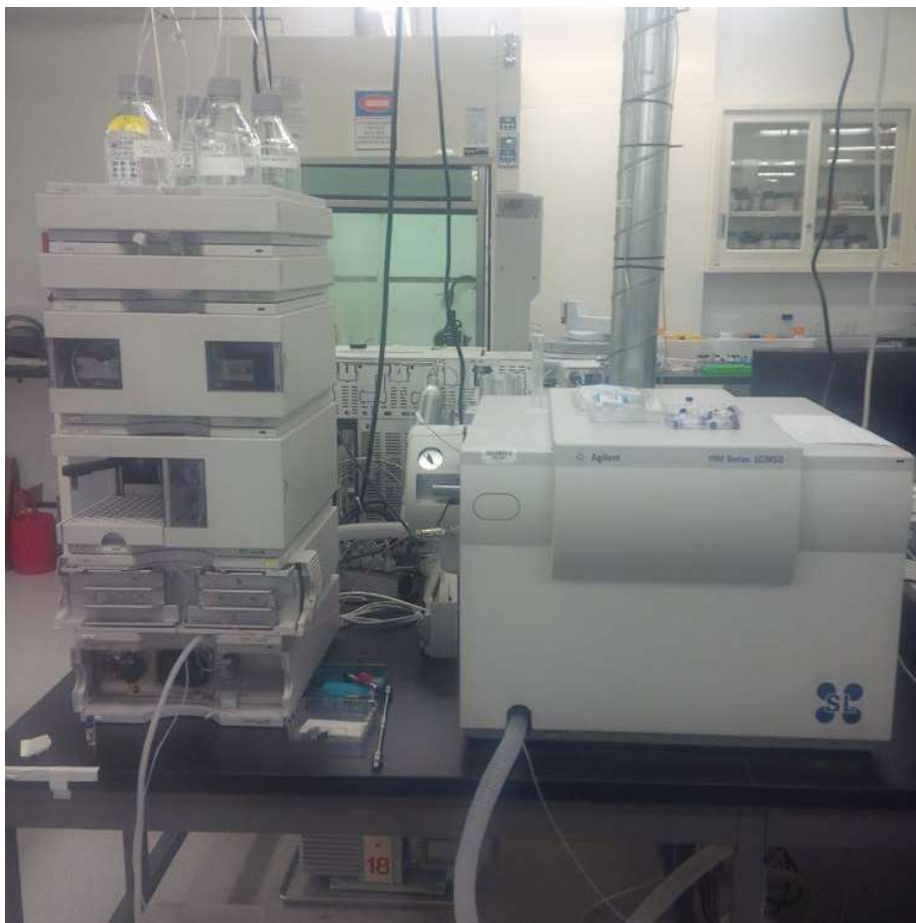
Buyer ID - Id de l'acheteur
cal140
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ANNEX “D” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

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