

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des soumissions
- TPSGC
11 Laurier St./ 11 rue, Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Scientific, Medical and Photographic Division /
Division de l'équipement scientifique, des produits
photographiques et pharmaceutiques
11 Laurier St./ 11 rue, Laurier
6B1, Place du Portage
Gatineau, Québec K1A 0S5

Title - Sujet ICP-OES ANALYTICAL INSTRUMENT	
Solicitation No. - N° de l'invitation H4091-144812/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client H4091-144812	Date 2014-11-21
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-916-66166	
File No. - N° de dossier pv916.H4091-144812	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-01-06	Time Zone Fuseau horaire Eastern Standard Time EST
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: Emond, Linda A.	Buyer Id - Id de l'acheteur pv916
Telephone No. - N° de téléphone (819) 956-4014 ()	FAX No. - N° de FAX (819) 956-3814
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	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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This amendment is raised to Delete entirety Table of Contents from page 1 to 18, and insert the new Table of Contents from 1 to 22

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PART 1 - GENERAL INFORMATION

1.1 Security Requirement

There is no security requirement associated with this bid solicitation.

1.2 Requirement

The requirement is detailed under Annex A

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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2014-09-25) 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: sixty (60) days
Insert: ninety (90) days

2.1.1 SACC Manual Clauses

B1000T	Condition of Material	2014-06-26
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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

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 questions 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 the province of Ontario, Canada.

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

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

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy. (use when you ask for CD / DVD only)

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:

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>). To assist Canada in reaching its objectives, Offerors should follow the format instructions described below in the preparation of their offer:

- 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;
- 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; and
- 3) use a numbering system that corresponds to that of the Request for Standing Offers.

Section I: Technical Bid

The following applies to the Requirement and bidders must provide the following information in the bid where applicable:

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work. (choose if statement of work)

3.1.1 Installation

On-site installation must be provided and be carried out by a qualified service technician.

State your best installation schedule. Installation will be carried out within _____ calendar days of delivery and be completed within _____ calendar days.

3.1.2 Training

On-site user training must be provided for up to five (5) users. All costs associated with the on-site training must be included in the price.

On-site training will be completed within _____ calendar days of installation.

Provide complete details of training e.g. duration, scope, etc.,

3.1.3 Service

Purchase of the system must include: technical support; technical phone support; support via the Internet; and support via a fax-back document system. Service cost must be included in the price.

Response for service must be within 24 hours or less.

Also, provide the following with your bid (for information purposes only):

- a) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.

- b) Locations of available replacement parts from consumables to major components.

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- c) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

- d) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

3.1.4 Product(s) Offered

The Bidder must indicate the make and model number of the products offered (identify specific components which make up the system):

Name of Manufacturer: _____

Model/Part Number: _____

Literature attached: Yes (____) No (____)

3.1.5 Point of Manufacture/Shipping

The Bidder must state the point of manufacture/shipping of goods or where service is to be performed:

Location: _____

Postal Code: _____

3.1.6 Delivery

While delivery must be no later than March 15, 2015 the best delivery that could be offered by the Bidder is _____.

3.1.7 Software Upgrades

The Bidder must provide all software updates and new releases to the purchaser for a period of one year following the acceptance, at no additional cost.

Note: The word "updates" means all enhancements, extensions or other modifications to the software. The word "releases" means enhancements or modifications to the software or new modules or supplementary modules that function in conjunction with the software, that represent the next generation of software, and which the Contractor has decided to make available to its customers usually for an additional charge.

3.1.8 Contacts

Bidders are requested to provide the following: Information pertaining to Article 5.3 Contractor Representatives under Part 6, Resulting Contract Clauses.

Section II: Financial Bid

The bidder must quote a firm lot price all inclusive of supply, installation, training and manuals DDP (Ottawa, Ontario), the total amount of applicable taxes must be shown separately. Freight charges to destination and all applicable Customs duties and Excise taxes must be included.

3.2.1 Exchange Rate Fluctuation

C3011TExchange Rate Fluctuation

2013-11-06

Section III: Certifications

Bidders must submit the certifications 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

All proposals submitted must be completed in full and provide all of the information requested in the Request for Proposal (RFP) package to enable a full and complete evaluation. If the requirement is not addressed in the bidder's proposal, the proposal will be considered incomplete or non-responsive and will be rejected. The onus is on the bidder to provide all the information necessary to ensure a complete and accurate assessment.

Confirm that you have read and understood by checking the: Yes _____

Factors for Evaluation

1. PRICING BASIS (MANDATORY): Prices must be firm, DDP Delivered Duty Paid.

2. ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):

a) For Items Defined by Specifications:

The bidder is requested to cross reference the mandatory technical criteria contained herein to their supporting technical documentation.

b) Provision of Supporting Technical Documentation:

Supporting technical documentation for the stores offered must be provided with the bid at time of bid closing.

Technical brochures or technical data MUST be provided to verify compliancy to the technical mandatory specifications.

Included: **Yes:** _____

3. COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)
4. Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - (see Part 5).
5. The Bidder must provide proof of certification of CSA or ULC standard (photocopy of certificate will suffice)

4.1.1.1 Mandatory Technical Criteria

As per Annex B

4.2 Financial Evaluation

Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP Ottawa, Ontario Incoterms® 2000, 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.

4.3 Basis of Selection

A0031T Basis of Selection -
Mandatory Technical Criteria Only

2010-08-16

PART 5 – CERTIFICATIONS

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required Precedent to Contract Award

5.1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

5.1.2 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 (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Employment and Social Development Canada (ESDC) - Labour's website.

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 Requirement

6.1.1 There is no security requirement associated with this contract.

6.2 Requirement

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

6.2.3 Installation

On-site installation must be provided and be carried out by a qualified service technician.

6.2.4 Manuals

One complete set of operating, maintenance, troubleshooting manuals or videos demonstrating the regular operation and maintenance either English/ French must be supplied.

6.2.5 Training

On-site user training must be provided for up to five users.

6.2.6 Software

The contractor must provide all software updates and new releases to the purchaser for a period of one (1) year following the acceptance, at no additional cost.

6.2.7 Service

Purchase of the system must include: technical support; technical phone support; support via the Internet; and support via a fax-back document system. Service cost must be included in the price.

Response for service must be within 24 hours or less.

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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2014-09-25) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

The 2010A (2014-09-25), General Conditions - Goods (Medium Complexity) is appended with Section 31 - Intellectual Property Infringement and Royalties, as follows:

- 1) The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.
- 2) If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to [Department of Justice Act](#), R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.
- 3) The Contractor has no obligation regarding claims that were only made because:
 - (a) Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
 - (b) Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
 - (c) the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
 - (d) the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of

Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.

- 4) If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
- (a) take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
 - (b) modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
 - (c) take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

6.3.2 Supplemental General Conditions

4001 (2010-08-16)	Hardware Purchase, Lease and Maintenance,
4003 (2010-08-16)	Licensed Software, and
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 Delivery Date

All the deliverables must be received on or before _____ (to be filled in only at contract award).

6.5. Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Linda Emond
Public Works and Government Services Canada
Acquisitions Branch
Commercial Consumer Products Directorate
11 Laurier Street, 6A2, Phase III
Place du Portage, Gatineau, Quebec, K1A 0S5

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Telephone: (819) 956-4014
Facsimile: (819) 956-3814
E-mail address: linda.emond@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 Technical Authority

The Technical Authority for the Contract is:

Name: _____
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 *(fill in)*

The telephone number of the person responsible for:

General enquiries
Name: _____
Telephone No. _____
Facsimile No. _____
E-mail address: _____

Delivery Follow-up
Name: _____
Telephone No. _____
Facsimile No. _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price(s), as specified in in Annex A for a cost of \$_____ **(to be filled in only 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 SACC Manual

C2000C	Taxes - Foreign-Based Contractor	2007-11-30
C2608C	Canadian Customs Documentation	2012-07-06
H1000C	Single Payment	2008-05-12

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.
 - (c) one (1) copy must be forwarded to the consignee.

6.8. Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to, provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms 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 Ontario.

6.10. Priority of Documents

If there is a discrepancy between the wordings 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 (2010-08-16) Hardware Purchase, Lease and Maintenance,
4003 (2010-08-16) Licensed Software, and

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4004 (2013-04-25) Maintenance and Support Services for Licensed Software

- (c) 2010A (2014-09-25) General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) the Contractor's bid dated _____

6.11 SACC Manual clause

B1501C	Electrical Equipment	2006-06-16
A9068C	Government Site Regulations	2010-01-11
A2000C	Foreign Nationals (Canadian Contractor)	2006-06-16
A2001C	Foreign Nationals (Foreign Contractor)	2006-06-16
G1005C	Insurance	2008-05-12

6.12 Shipping Instructions

6.12.1 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

Delivered Duty Paid (DDP) Ottawa, Ontario Incoterms 2000 for shipments from a commercial contractor.
2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.

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ANNEX A

REQUIREMENT / BASIS OF PAYMENT

Health Canada division of Healthy Environments and Consumer Safety Branch has a requirement for the supply of one inductively coupled plasma optical emission spectrometer (ICP-OES). Installation and training are required, delivery by March 15, 2015, delivery to Ottawa, Ontario.

Description	Firm Qty	Firm lot price
For the supply of one inductively coupled plasma optical emission spectrometer (ICP-OES). Installation and training. In Accordance with the mandatory specification on Annex B.	1	\$ _____

If bidders quoted FCA (Freight Carrier) they must provide the following information:

Custom Duties
Excise Tax
Transportation Charge

ANNEX B

MANDATORY SPECIFICATIONS

Inductively coupled plasma optical emission spectrometer (ICP-OES)

ICP SYSTEM:

1. For maximum matrix tolerance and maximum sensitivity the instrument must be equipped with a vertical plasma with a 'dual view' configuration and capability to synchronously read both axially and radially at the same time, or to read axial or radial views alone.

Reference in Contractors Proposal: _____

2. The instrument must be able to run high %Total Dissolved Solids (TDS) matrices up to 20% or higher.

Reference in Contractors Proposal: _____

3. The instrument must be able to run organic as well as aqueous matrices. Organic matrices include oil, kerosene and solvent such as hexanes.

Reference in Contractors Proposal: _____

4. The instrument must monitor gas pressures and flows, water flows, air pressure, exhaust air flow and plasma stability.

Reference in Contractors Proposal: _____

5. The system must have interlocks around the plasma compartment door. The interlocks must be continuously monitored and if any interlock is interrupted, the plasma is shutdown automatically.

Reference in Contractors Proposal: _____

6. The instrument must be able to operate in laboratory non-condensing, non-corrosive conditions that range from 15 °C to 30 °C and relative humidity between 30 % and 70 % or wider.

Reference in Contractors Proposal: _____

7. Plasma ignition and shut down must be computer controlled and totally automated.

Reference in Contractors Proposal: _____

8. The instrument must be able to operate with a single exhaust extraction directly coupled to the instrument.

Reference in Contractors Proposal: _____

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9. The instrument must include an on-board fan to supply air to the system, and maintain a positive pressure environment within the instrument enclosure.

Reference in Contractors Proposal: _____

10. The power requirements of the instrument must operate on single phase input voltage between 200 - 240 VAC, 50-60 Hz.

Reference in Contractors Proposal: _____

11. The system must be able to operate with a single source of gas (i.e. argon) for its normal operation.

Reference in Contractors Proposal: _____

RF GENERATOR:

1. The RF generator must be solid state and have an optimal power output range of 800 watts to 1500 watts or wider and be computer controllable in 10 watts increments.

Reference in Contractors Proposal: _____

2. The RF generator must be of free running design and have power transfer efficiency into the plasma of at least 75%.

Reference in Contractors Proposal: _____

3. The power output stability must be 0.2% or lower.

SPECTROMETER:

1. The instrument must have an Echelle-based polychromator that utilizes a single solid state detector and a single entrance slit to the optics. The resolution of the system must be less than 0.007 nm at 200 nm and 0.013nm at 327.4nm. The entire optical system must be enclosed in a purged and thermostated optical enclosure operator above room temperature.

Reference in Contractors Proposal: _____

2. An optical system purge of 0.7L/min with maximum optional boost purge up to 3L/min in the polychromator for determinations made at wavelengths below 189 nm must be standard to reduce the total consumption of Argon during the operation of the instrument.

Reference in Contractors Proposal: _____

3. Gas flow for the polychromator purge must be Mass Flow Controlled.

Reference in Contractors Proposal: _____

4. The instrument must have vertical plasma and the standard torch must be of a single-piece design for facility of usage and installation.

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Reference in Contractors Proposal: _____

5. Viewing of the plasma height must be computer controlled.

Reference in Contractors Proposal: _____

6. The system must have the ability view at least 96% of the emission spectra between 180 and 750nm or wider.

Reference in Contractors Proposal: _____

7. The instrument must be able to simultaneously perform determinations across the entire spectrum in a single measurement on the detector.

Reference in Contractors Proposal: _____

SYSTEM DETECTOR:

1. The instrument must utilize a single focal plane with a single solid-state detector that is optimized for performance across the entire emission spectrum possible on the spectrometer.

Reference in Contractors Proposal: _____

2. All emission wavelengths need to be read simultaneously.

Reference in Contractors Proposal: _____

3. Each detector pixel must have anti-blooming protection to enable the simultaneous measurement of trace level analytes in the presence of major matrix constituents.

Reference in Contractors Proposal: _____

4. The detector must be cooled to a temperature of at least -40°C to minimize detector dark current thereby enhancing instrument performance and detection limits.

Reference in Contractors Proposal: _____

5. The detector must allow intense and trace signals to be measured simultaneously at the optimum Signal to Background Ratio (SBR).

Reference in Contractors Proposal: _____

6. The detector must be hermetically sealed to reduce the overall gas consumption during operation.

Reference in Contractors Proposal: _____

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PERFORMANCE:

1. The instrument must have the following **typical** resolution:

As 188.979 nm < 0.01 nm
Mo 202.030nm < 0.01 nm
Zn 213.856 nm < 0.01 nm
Pb 220.353 nm < 0.01 nm
Cr 267.716 nm < 0.1 nm
Cu 327.396 nm < 0.02 nm
Ba 614.171 nm < 0.05 nm

Reference in Contractors Proposal: _____

2. Stray light must be less than 2.0 ppm effect on the As signal at 188.980 nm from 10,000 ppm Ca. Data provided must clearly demonstrated this performance in the specification sheet of the proposed instrument.

Reference in Contractors Proposal: _____

3. The instrument must have analytical linearity of 4 orders of magnitude or higher with the ability to use alternate wavelengths measured simultaneously.

Reference in Contractors Proposal: _____

SAMPLE INTRODUCTION SYSTEM:

1. The torch must be a cassette style torch that is mounted vertically and that does not require further manual adjustment of the torch for alignment to the RF coil, axial optical alignment, or for adjustment of the position of the injector tube.

Reference in Contractors Proposal: _____

2. The instrument must include a double pass glass cyclonic spray chamber and a glass concentric nebulizer.

Reference in Contractors Proposal: _____

3. The system must include a four (4) or higher number of channels, variable speed, computer controlled peristaltic pump which allows for on-line addition of internal standards.

Reference in Contractors Proposal: _____

4. Peristaltic pump must be capable of operating at high pumping rate (e.g. 60 rpm or higher) for rapid uptake and washout.

Reference in Contractors Proposal: _____

FLOW CONTROLS:

1. All gas flows to control the plasma must be Mass Flow Controlled. These include the plasma gas (coolant), auxiliary gas, nebulizer gas and make up gas.

Reference in Contractors Proposal: _____

2. Plasma argon gas (coolant) flow must be controlled at flows ranging from 8.0 to 15.0 L/min or wider with 0.1L/min increment.

Reference in Contractors Proposal: _____

3. Auxiliary gas flow must be controlled at flows ranging from 0 to 2.0L/min with 0.01L/min increment.

Reference in Contractors Proposal: _____

4. The nebulizer argon flow must be controlled from 0 to 1.5 L/min with 0.01 L/min increment.

Reference in Contractors Proposal: _____

5. The make up gas must have flow from 0 to 2L/min with 0.01L/min increment.

Reference in Contractors Proposal: _____

6. The addition of oxygen for organics analysis must use an integrated gas control system and be computer controlled.

Reference in Contractors Proposal: _____

ADDITIONAL OPTIONS:

1. The instrument must include a water chiller that is separate from the instrument chassis and away from the instrument and RF generator.

Reference in Contractors Proposal: _____

2. The instrument must be supplied with an auto sampler that is computer controlled and have total random access capabilities of at least 100, 15 ml vials and have an additional 10 vials for standard solutions.

Reference in Contractors Proposal: _____

INSTRUMENT CONTROLLER:

1. The instrument controller must be a minimum of an industry standard Intel 3GHz processor, 8 MB cache, 4 GB RAM.

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Reference in Contractors Proposal: _____

2. The computer must have a hard disk that will hold at least 500 Gbytes of information at 7200RPM 6G/s

Reference in Contractors Proposal: _____

3. The computer must include at least 16 x DVD +/- RW drive with an integrated sound card

Reference in Contractors Proposal: _____

4. The PC must have at least two USB ports and one serial (RS232) port.

Reference in Contractors Proposal: _____

5. The computer must have a minimum of a 21" flat panel color monitor and color and inkjet printer or better quality.

Reference in Contractors Proposal: _____

6. The computer must have Windows 7 Professional 64-bit operating system loaded.

Reference in Contractors Proposal: _____

SOFTWARE:

1. The instrument controlling software must be 64-bit running under Microsoft Windows 7 Professional.

Reference in Contractors Proposal: _____

2. The software must be able to display calibration curves for all of the elements analyzed simultaneously.

Reference in Contractors Proposal: _____

3. The software must be able to display all of the peaks from an analysis simultaneously.

Reference in Contractors Proposal: _____

4. The software must provide automated background correction.

Reference in Contractors Proposal: _____

5. The software must have the ability to do spectral interference correction. Interfering Element Corrections (IEC) must be available and the system must be able to calculate these values automatically.

Reference in Contractors Proposal: _____

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6. IEC factors must recalculate automatically when background correction points are changed eliminating the need to recollect the IEC data.

Reference in Contractors Proposal: _____

7. The system must be able to apply spectral interference correction in addition to background correction post sample analysis, eliminating the need to reanalyze the sample.

Reference in Contractors Proposal: _____

8. The software must allow for four different types of predefined check standards which may be customized by the instrument user. If samples are found to fall out of these limits, user defined corrective actions including recalibration and rerunning of samples must be available.

Reference in Contractors Proposal: _____

9. Additional QC capability must include at least three types of blank checks, multiple sample calculations including duplicates and dilution calculations and spike calculations.

Reference in Contractors Proposal: _____

10. The instrument must be able to read both background and emission data simultaneously and allow for manual or automatic background correction.

Reference in Contractors Proposal: _____

11. All raw data must be saved and the system must allow for post run reprocessing of the data including the changing of background correction points, standard values, curve-fit technique, and individual replicate editing.

Reference in Contractors Proposal: _____

12. Calibration curves must be stored and be able to be recalled for later use.

Reference in Contractors Proposal: _____

13. The software must have a library of analytical wavelengths containing at least 30,000 lines whose relative intensities are determined on the instrument optical system.

Reference in Contractors Proposal: _____

14. Calibration equations must include linear, quadratic and include functions of weighted fit and force through blank options.

Reference in Contractors Proposal: _____

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ANNEX C

COMPLETE LIST OF DIRECTORS (As per Standard Instructions, Clauses and Conditions Part 2)

Name	Position
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____