

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 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

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 "Quadrupole ICP-MS with collision/r	
Solicitation No. - N° de l'invitation 23375-140507/A	Date 2014-01-22
Client Reference No. - N° de référence du client 23375-140507	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-929-64484	
File No. - N° de dossier pv929.23375-140507	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-03-04	
Time Zone Fuseau horaire Eastern Standard Time EST	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Martin, Doug	Buyer Id - Id de l'acheteur pv929
Telephone No. - N° de téléphone (819) 956-4037 ()	FAX No. - N° de FAX (819) 956-3814
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATURAL RESOURCES 1 HAANEL DR. OTTAWA Ontario K1A1M1 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
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

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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM	Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	"Quadrapole ICP-MS with collision/ reaction cell te	23375	I - 1	1	Each	\$	XXXXXXXXXXXX	XXXXXXXXXXXX	See Herein	

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

NRCan, CanmentEnergy - Ottawa, Characterization Laboratory has a requirement for the supply a quadrupole ICP-MS with collision/reaction cell technology.

The quadrupole ICP-MS with collision/reaction cell technology will be used to perform qualitative and quantitative multi element analysis.

It will be combined with an auto sampler, and must be able to be coupled to a liquid or gas chromatography system, or laser ablation accessory when required.

The elements of interest will be at concentrations ranging from ppb to ppt in various matrices.

Installation, training and manuals included.

2.2 Optional Requirement

The Contractor grants to Canada the irrevocable option to acquire:

1) Warranty extension for second and third year coverage.

The Contracting Authority may exercise the option up to twelve months following contract award for year two warranty, and if year two warranty is exercised up to 12 month following year two exercise for third year coverage by sending a written notice to the Contractor.

2) Advanced training.

The Contracting Authority may exercise the option for Advanced training up to twelve months following contract sending a written notice to the Contractor.

3) Comprehensive spare kits,

The Contracting Authority may exercise the option for Comprehensive spare parts kits, up to twelve months following contract sending a written notice to the Contractor.

The option (s) may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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 issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website:

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>

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 following are incorporated by reference into and form part of the bid solicitation.

The 2003 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements,

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.

3. Applicable Laws

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

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

4. Enquiries - Bid Solicitation

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

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (two (2) hard copies), consisting of technical brochures/literature to verify compliancy and test data, if applicable

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.

Bidders are requested to submit one quotation document with prices, and a second quotation document with prices removed.

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;
- (c) include the certifications as a separate section of the bid.
- (d) In April 2006, Canada issued a policy directing federal departments and agencies to take necessary steps to incorporate environmental considerations into the procurement process Policy of Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologistation-greening/chats-procurement/politique-policy-eng.html>). To Assist Canada in reaching its objectives, bidders are encouraged to:

1) use 8.5. X 11 inch (216 mm X 279 mm) paper containing fibre certified as origination from a sustainably-managed forest and /or containing minimum 30% recycled content; and

2) use and enviornmentally-preferabe format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

1.1 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.

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

1.1.1 Product(s) Offered (To be completed by bidder)

Indicate the make and model of the product(s) offered:

Name of Manufacturer: _____

Model/Part Number: _____

1.1.2 Point of Manufacture/Shipping (To be completed by bidder)

The Bidder must state the point of manufacture/shipping of goods:

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Location: _____ Postal Code: _____

1.1.3 Delivery (To be completed by bidder)

Delivery is requested by 15 March 2014, the best delivery that could be offered by the Bidder is _____.

Delivery is Mandatory by March 31, 2014.

Installation (To be completed by bidder)

On-site installation must be provided and shall 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.

Documentation (To be completed by bidder)

(1) Two copies of Operator and Service Manuals for system should be supplied with the equipment.

Operational manuals in English available. _____ Yes.

Service manuals in English available. _____ Yes.

Operational manuals in French available. _____ Yes.

Service manuals in French available. _____ Yes.

(2) Two copies of Software Manuals should be supplied with the equipment.

Operational manuals in English available. _____ Yes.

Service manuals in English available. _____ Yes.

Operational manuals in French available. _____ Yes.

Service manuals in French available. _____ Yes.

Training (To be completed by bidder)

On-site user training must be provided for(2) two days for up to four (04) users which must include, but not be limited to basic machine features, operations, and maintenance.. 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.,

Service (To be completed by bidder)

Purchase of the system must include:

(1) a minimum of one year technical support for hardware and software.

(2) a minimum of one year applications support to aid with method development work.

Response for service shall be within 24 hours or less.

Also, provide the following with your bid:

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.

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).

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

1.1.4 Contacts

Bidders are requested to provide the following:

Information pertaining to Part 6, Resulting Contract Clauses. 5.3 Contractor's Representative.

1.2 Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) is to be shown separately, if applicable.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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 herein; and
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

All proposals submitted shall 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.

2 Factors for Evaluation

1. **PRICING BASIS (MANDATORY):** Prices must be firm.
2. **BID VALIDITY PERIOD (MANDATORY):** Offers are to remain open for a period of not less than ninety (60) days from the date of closing of this Request for Proposal.
3. **ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):**

- a) For Items Defined by Specifications:

The bidder MUST cross reference the mandatory technical criteria contained herein to their proposal providing clear indication where a bid does NOT conform to the specifications. If no exceptions are taken to the specifications, Canada will assume the bidder's complete compliance in their assessment of the offer and in any subsequent contract award.

- b) Provision of Supporting Technical Documentation:

Supporting technical documentation for the stores offered shall 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

4. COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)

5. **FOR CANADIAN SUPPLIERS ONLY:** Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - see herein. (MANDATORY if applicable)

3. Basis of Selection

1. A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price, including options, will be recommended for award of a contract.
2. The lowest evaluated price will be established using the following criteria:

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- a) Prices will be evaluated in Canadian Funds including any applicable Excise Taxes and Canadian Customs Duty (if applicable) and excluding the Goods and Services Tax (GST) or Harmonized Sales Tax (HST). For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing;
- b) Prices will be evaluated on a "DDP Destination" basis, unless otherwise specified.
3. Requests for Exchange Rate Fluctuation Protection and/or Progress Payments will not be considered.

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PART 5 - CERTIFICATIONS

Certifications with the Bid

In order to be considered for contract award, a bidder whose bid is technically and financially responsive, must meet the following conditions:

Code of Conduct Certifications - Certifications Required Precedent to Contract Award

Bidders should provide, with their bids or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder.

Family Name

Given Name(s)

Family Name

Given Name(s)

Family Name

Given Name(s)

Family Name

Given Name(s)

Family Name

Given Name(s)

If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information.

Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.

The Contracting Authority may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/229.pdf>), for any or all individuals named in the aforementioned list within a specified delay.

Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

Federal Contractors Program for Employment Equity - \$200,000 or more

1. The Federal Contractors Program for Employment Equity (FCP-EE) requires that some organizations bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity, as a condition precedent to the contract award. If the bidder is subject to the Program, evidence of its commitment must be provided prior to the award of any contract.

Contractors that have been declared Ineligible Contractors by the Department of Human Resources and Skills Development (HRSD) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contract Regulations (currently at \$25,000, including all

applicable taxes), either as a result of a finding of non-compliance by the Department of HRSD, or following their voluntary withdrawal from the Program for a reason other than the reduction in their workforce. Any bid from ineligible contractors will not be considered for award.

2. The Bidder certifies its status with FCP-EE, as follows:

The Bidder

- (a) is not subject to FCP-EE, having a workforce of less than 100 permanent full or part-time employees in Canada,
- (b) is not subject to FCP-EE, being a regulated employer under the Employment Equity Act;
- (c) is subject to the requirements of FCP-EE, having a workforce of 100 or more permanent full or part-time employees in Canada, but has not previously obtained a certificate number from the Department of HRSD, (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is provided herewith (attached);
- (d) is subject to FCP-EE, and has a valid certification number as follows: _____
(e.g. Has not been declared Ineligible Contractor by the Department of HRSD).

3. If the Bidder does not fall within the exceptions enumerated in 2. (a) or (b), the Program requirements do apply, and as such, the Bidder is required to submit to the Department of HRSD form LAB 1168, Certificate of Commitment to Implement Employment Equity, DULY SIGNED or a valid Certificate number confirming its adherence to the FCP-EE.

4. The Bidder acknowledges that the Minister shall rely on this certification to award the Contract. Should a verification by the Minister disclose a misrepresentation on the part of the Bidder, the Minister shall have the right to treat any contract resulting from this bid as being in default, and to terminate it pursuant to the Default provisions of the Contract.

5. In all cases, the Bidder is required to produce evidence or supporting information on demand prior to contract award, if such evidence is not included with its bid.

Signature of authorized representative: _____ . Date: _____

NOTE: Information on the FCP-EE and the Certificate of Commitment (LAB 1168) are available on the following Department of HRSD Website:

<http://www.hrsdc.gc.ca/en/gateways/topics/wzp-gxr.shtml> and
<http://www100.hrdc.gc.ca/labswenm1e.shtml>, respectively.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

NRCan, CanmentEnergy - Ottawa, Characterization Laboratory has a requirement for the supply a quadrupole ICP-MS with collision/reaction cell technology.

The quadrupole ICP-MS with collision/reaction cell technology will be used to perform qualitative and quantitative multi element analysis.

It will be combined with an auto sampler, and must be able to be coupled to a liquid or gas chromatography system, or laser ablation accessory when required.

The elements of interest will be at concentrations ranging from ppb to ppt in various matrices.

Installation, training and manuals included.

2.2 Optional Requirement

The Contractor grants to Canada the irrevocable option to acquire:

1) Warranty extension for second and third year coverage.

The Contracting Authority may exercise the option up to twelve months following contract award for year two warranty, and if year two warranty is exercised up to 12 month following year two exercise for third year coverage by sending a written notice to the Contractor.

2) Advanced training.

The Contracting Authority may exercise the option for Advanced training up to twelve months following contract sending a written notice to the Contractor.

3) Comprehensive spare kits,

The Contracting Authority may exercise the option for Comprehensive spare parts kits, up to twelve months following contract sending a written notice to the Contractor.

The option (s) may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

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 issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website: <http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>.

3.1 General Conditions

2010A (2012-11-19) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

The contract will be force until all warranty and or optional provisions of this agreement are expired

4.1 Delivery Date

Delivery must be completed on or before *(to be filled in at contract award)*.

4.1.2 Shipping Instructions

4.1.2. Shipping Instructions - Delivery at Destination

1. Shipment shall be consigned to the destination specified, and delivered:

DDP Delivered Duty Paid Ottawa, Ontario Incoterms 2000.

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.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Doug Martin, Supply Specialist (PV)

Public Works and Government Services Canada
Acquisitions Branch

Commercial Consumer Products Directorate
11 Laurier Street, (44) 6A2, Phase III
Place du Portage, Hull, Quebec, K1A 0S5

Telephone: (819) 956 4037

Facsimile: (819) 956-3814

E-mail address: doug.martin@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.

5.2 Technical Authority (to be filled in only at contract award)

The Technical Authority for the Contract is:

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..

5.3 Contractor's Representative

Contractor's Representative (To be completed by bidder)

The telephone number of the person responsible for :

General enquiries

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Name: _____ Telephone No. _____

Facsimile No. _____ E-mail address: _____

Delivery Follow-up

Name: _____ Telephone No. _____

Facsimile No. _____ E-mail address: _____

6. Payment

6.1 Basis of Payment - Firm Price

1. In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor shall be paid a firm price of **\$ XX.XX** (to be filled in at contract award) Goods and Services Tax or Harmonize Sales Tax extra, if applicable.
2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Specifications, will be authorized or paid to the Contractor unless such design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority prior to their incorporation in the Work.

6.2 Single Payment (Choose one)

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- (a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) all such documents have been verified by Canada;
- (c) the Work delivered has been accepted by Canada.

7. Invoicing Instructions

Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in **Section 10, 2010A (2012-11-19) General Conditions - Goods or Services (Medium Complexity)**.

Original copy to **consignee** with one copy to the **Contracting Authority**.

Name: Doug Martin
Public Works and Government Services Canada
Acquisition Branch, CASMS
Telephone: (819) 956-4037
Facsimile: (819) 956-3814
E-Mail address: doug.martin@pwgsc.gc.ca

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The Invoice contact for the Contract is: (To be filled in at time of contract award)

8. Certifications

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or 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.

8.2 SACC Manual Clauses (delete those that do not apply)

A2000C	Foreign Nationals (Canadian Contractor)	06/06/16
A2001C	Foreign Nationals (Foreign Contractor)	06/06/16
A9131C	Controlled Goods Production	08/12/12
B1501C	Electrical Equipment	06/06/16
B7500C	Excess Goods	06/06/16
C0100C	Discretionary Audit - Commercial Goods and/or Services	07/05/25
D2001C	Labelling	07/11/30
D9002C	Incomplete Assemblies	07/11/30

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

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) **2010A (2012-07-16) General Conditions - Goods or Services (Medium Complexity);**
- (c) Annex A, Requirement;
- (d) the Contractor's bid dated _____ as clarified on _____ " or ", as amended on _____

Solicitation No. - N° de l'invitation

23375-140507/A

Client Ref. No. - N° de réf. du client

23375-140507

Amd. No. - N° de la modif.

File No. - N° du dossier

pv92923375-140507

Buyer ID - Id de l'acheteur

pv929

CCC No./N° CCC - FMS No/ N° VME

Annex "A" REQUIREMENT

Mandatory Specifications for a "Inductively Coupled Plasma Mass Spectrometer (ICP-MS) System":

Bidder must complete the following statement of compliance.

The Bidder shall indicate compliance to each item. Failure to comply with the mandatory system specifications will render your proposal non-responsive, and no further consideration will be given.

Your quote must include and list all of the components necessary to meet these mandatory specifications.

Bidders must ensure that adequate literature/technical brochure(s) are submitted at time of bid closing to support compliance with all mandatory technical criteria.

1. GENERAL REQUIREMENTS

1.1. Track Record.

The vendor must demonstrate a proven and successful track record of production of ICP- mass spectrometers.

Vendors must 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 in full production.

Installation One:

Organization Name: _____

Address of Installation: _____

Contact Name: _____

Contact E-mail _____

Contact E-mail and Phone Number (_____) _____

System Installed: _____

Installation Two:

Organization Name: _____

Address of Installation: _____

Contact Name: _____

Contact E-mail _____

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23375-140507/A

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pv92923375-140507

Buyer ID - Id de l'acheteur

pv929

CCC No./N° CCC - FMS No/ N° VME

Contact E-mail and Phone Number (_____) _____

System Installed: _____

Installation Three:

Organization Name: _____

Address of Installation: _____

Contact Name: _____

Contact E-mail _____

Contact E-mail and Phone Number (_____) _____

System Installed: _____

1.2. Software Updates

Vendor must also provide all software updates free of cost for a minimum of three years from date of on-site acceptance.

Page Reference in supplied documentation : _____

1.3. The analytical figures of merit.

Performance Specifications as delineated in paragraph three (3) below must be confirmed at the time of installation.

1.4. Safety and emergency protection.

The design of the instrument must assure operator safety and preservation of the instrument integrity in cases of power outage, accidental water leaks or cooling instrument breakdown, rapid increase of room temperature and humidity due to air conditioning failure.

Page Reference in supplied documentation : _____

The instrument must also be equipped with safety features preventing injury in cases of operator oversight (including but not restricted to switching off plasma when respective compartments of the instrument are opened).

Page Reference in supplied documentation : _____

1.5. Accessories.

Vendors must supply following;

- (1) two copies of user manuals for the instrument hardware and software.
- (2) a minimum of one year technical support for hardware and software.
- (3) a minimum of one year applications support to aid with method development work.
- (4) a set of necessary tools or cleaning kits if required.
- (5) collision/reaction cell gas regulators.

1.6. Consumables.

Vendors must provide a list of consumables and their prices.

Page Reference in supplied documentation : _____

2. TECHNICAL SPECIFICATIONS

2.1. General

2.1.1. The instrument must have compact bench-top design.

Page Reference in supplied documentation : _____

2.1.2. The instrument must be equipped with collision/reaction technology capable of removing/reducing plasma and sample matrix-based polyatomic interference's.

Page Reference in supplied documentation : _____

2.1.3. The instrument must be delivered with all necessary supplies and accessories required for the installation and start-up.

Page Reference in supplied documentation : _____

2.1.4. Auto sampler should incorporate a peristaltic pump and possess features that eliminate cross-contamination

Page Reference in supplied documentation : _____

2.2. Sample introduction

2.2.1. The instrument must be capable of sample introduction using conventional solution nebulization.

Page Reference in supplied documentation : _____

2.2.2. The instrument must be capable of applications of geochemical products dissolved in Hydrofluoric acid and organic matrices diluted in a solvent matrix. The instrument must include sample introduction system for organic samples and samples of high TDS (Total Dissolved Solids)

Page Reference in supplied documentation : _____

2.2.3. The instrument must possess:

2.2.3.1. a flow injection system (6 port valve) allowing for rapid sample loading and decreased washout times.

Page Reference in supplied documentation : _____

2.2.3.2. multiple sample loops (0.5, 1.0, 2.0 mL) with large bore internal diameters. 2.2.3.3. thermoelectrically (Peltier) controlled spray chamber, must be programmable for wash out duration and speed-

Page Reference in supplied documentation : _____

2.2.3.4. a variable speed peristaltic pump with a minimum of three channels for pumping of sample, internal standard and spray chamber drain.

Page Reference in supplied documentation : _____

2.2.3.5. a peristaltic pump speed and spray chamber temperature must be controlled through a single, fully integrated computer.

Page Reference in supplied documentation : _____

2.2.3.6. a minimum of six (5) mass flow controllers to control the two (2) plasma gases, and 2 for the collision/reaction cell gases and one for adding gas to the spray chamber.

Page Reference in supplied documentation : _____

2.2.3.7. Peletier cooled organics introduction kit.

Page Reference in supplied documentation : _____

2.2.3.8. PFA inert sample introduction kit.

Page Reference in supplied documentation : _____

2.3. Vacuum and Cooling system

2.3.1. The vacuum system of the instrument must consist of a rotary pump and a turbo-molecular pump with argon purge to prevent corrosive vapours and gases attack the bearings.

Page Reference in supplied documentation : _____

2.3.2. The pumping system must have enough capacity to maintain vacuum at 1e-7 Torr (or lower) and to reach operating vacuum from atmosphere in less than 10 minutes and vice-versa.

Page Reference in supplied documentation : _____

2.3.3. The vacuum system must be computer controlled and monitored.

Page Reference in supplied documentation : _____

2.3.4. The instrument must include any chiller or heat exchanger required for cooling of the instrument, plasma interface and RF coil. If chiller/heat exchanger is peripheral to the main instrument, all necessary lines, connections, and fittings must be supplied for installation purposes.

Page Reference in supplied documentation : _____

2.4. Plasma and Ion Optics

2.4.1. RF generator:

2.4.1.1. The instrument must have digital solid-state, software controlled, dynamic frequency matching RF generator.

Page Reference in supplied documentation : _____

2.4.1.2. The RF generator must have continuously variable output power from 500 to 1600 watts that can be controlled by the ICP-MS software for automatic control of torch ignition, shutdown, and system warm-up.

Page Reference in supplied documentation : _____

2.4.1.3. The instrument must to be able to reduce plasma ion energy spread.

Page Reference in supplied documentation : _____

2.4.2. Torch:

2.4.2.1. The instrument must possess a one-piece quartz torch for easy replacement. The injector internal diameter should be 2.5 mm for high matrix tolerance and long residence times of aerosol particles in the ICP.

Page Reference in supplied documentation : _____

2.4.2.2. Torch position must be fully computer controlled and auto-tunable in all three axes. The movement in each axis should be independent of the other two. Torch position and reproducibility must be 0.1 mm in all three axes. Computer readout of torch position is required for method and data audit purposes.

Page Reference in supplied documentation : _____

2.4.3. Interface and Ion Optics:

2.4.3.1. The instrument must be equipped with an off-axis lens or other type of filtering features to eliminate the effect of photons and neutrals on signal background.

Page Reference in supplied documentation : _____

2.4.3.2. The plasma interface must allow access to the sampler and skimmer cones to facilitate their removal for cleaning.

Page Reference in supplied documentation : _____

2.4.3.3. The instrument must be designed so that all cones can be changed without breaking the vacuum in the mass analyzer and detector compartments.

Page Reference in supplied documentation : _____

2.5. Collision/reaction cell:

2.5.1. The cell must be able to separately introduce up to two gases. Two collision/reaction cell gas lines must be included.

Page Reference in supplied documentation : _____

2.5.2. The cell must be operable in standard, collision and reaction modes in a single method.

Page Reference in supplied documentation : _____

2.5.3. Collision mode must include the use of Helium.

Page Reference in supplied documentation : _____

2.5.4. Reaction mode must include the use of hydrogen, Ammonia, Methane, Oxygen or any other reaction gas of choice.

Page Reference in supplied documentation : _____

2.5.5. The instrument must be usable in collision/reaction mode for all analytes, not only a small set of analytes.

Page Reference in supplied documentation : _____

2.5.6. The instrument must be able to attenuate the signal of selective elements to enable incorporation of high concentration elements into a single analysis without affecting signal response of other elements or pressurizing the cell with a gas.

Page Reference in supplied documentation : _____

2.5.7. The instrument must have the ability to measure elements both high and low concentrations in the same sample in the same run.

Page Reference in supplied documentation : _____

2.5.8. The instrument must be capable of multi-element analysis of an unknown sample containing Chlorine, SO₄, and organic content, without the need for any interference correction equations.

Page Reference in supplied documentation : _____

2.6. Quadrupole mass analyzer:

2.6.1. The quadrupole rods must generate a theoretically correct hyperbolic field.

Page Reference in supplied documentation : _____

2.6.2. The instrument must be capable of operating in mass scanning, quantitative and time resolved analysis modes and should also be capable of operating in qualitative, semi-quantitative, isotope ratio and isotope dilution analysis modes.

Page Reference in supplied documentation : _____

2.6.3. Mandatory mass analyzer technical specifications

2.7. Detection system:

2.7.1. The instrument must possess a dual mode (pulse-analogue) discrete dynode detector that provides linear dynamic range of at least nine (9) orders of magnitude without the need to use increased resolution.

Page Reference in supplied documentation : _____

2.7.2. The detector must automatically protect against damage and auto-reset upon over-range signal measurement.

Page Reference in supplied documentation : _____

2.8. Data control:

2.8.1. The instrument must come with a computer and licensed software for data acquisition, processing and reporting. The PC must use Microsoft Windows 7 Professional or Enterprise edition operating system. Additional software must be provided to allow for off-line data processing on a PC other than the instrument's. The instrument must include all necessary cables, communications cards required for connecting the above described computer to the vendor's instrument.

Page Reference in supplied documentation : _____

2.8.2. The computer must come with a laser printer, monitor, mouse and keyboard.

Page Reference in supplied documentation : _____

2.8.3. The software must acquire data in mass scanning, quantitative and Time Resolved Analysis (TRA) modes and should also be capable of operating in qualitative, semi-quantitative, isotope ratio and isotope dilution analysis modes.

Page Reference in supplied documentation : _____

2.8.4. The software must allow the operator to select the integration time of each isotope and the number of points per peak or number of points per a.m.u.

Page Reference in supplied documentation : _____

2.8.5. The software must control instrument parameters and conditions including but not restricted to: plasma conditions (including power and all gas flow rates), torch position, lens voltages, mass analyzer and detector parameters, all data acquisition parameters, including auto-sampler-based solution runs and liquid chromatography analyses performed using TRA software.

Page Reference in supplied documentation : _____

2.8.6. It is essential that the ICP-MS instrument tuning can be performed in real-time graphics mode. This tuning must allow for the display of signal intensities for at least eight (8) masses simultaneously, plus a ratio of any oxide or doubly charged species as a percentage.

Page Reference in supplied documentation : _____

2.8.7. Data should be saved while the analysis is in progress so that no information is lost in the event of power failure or manual termination of an analysis.

Page Reference in supplied documentation : _____

2.8.8. The software must include quality control/diagnostic features to help the operator detect and diagnose instrument faults, including malfunction and any other sources of error.

Page Reference in supplied documentation : _____

2.8.9. The software must have the ability to store, retrieve and display the analytical signals for each analysis, and to convert and export data automatically to ASCII (e.g., CSV) format files for external processing.

Page Reference in supplied documentation : _____

2.8.10. Transient signals:

2.8.10.1. It must be possible to perform time resolved analysis (TRA) data acquisition. Partial runs should be saved and available for data analysis even if the analytical run is manually stopped.

Page Reference in supplied documentation : _____

2.8.10.2. Signal intensity data for at least 10 user-selected isotopes must be displayed in real time to monitor transient signals generated during an analysis.

Page Reference in supplied documentation : _____

2.8.10.3. Major elements and trace elements in small samples will generate large transient signals. To capture these signals, the detector instrument must have a linear dynamic range of at least nine (9) orders of magnitude.

Page Reference in supplied documentation : _____

2.8.10.4. The ICP-MS should be able to send and/or receive a trigger signal to/from an external liquid/gas chromatography instrument.

Page Reference in supplied documentation : _____

2.8.10.5. It must be possible to convert and export TRA data automatically to ASCII (e.g., CSV) or EXCELL format files for external processing.

Page Reference in supplied documentation : _____

3. PERFORMANCE SPECIFICATIONS

The following performance specifications must be demonstrated on-site during installation.

3.1. Required specifications for non-collision/reaction gas solution analysis mode - all specifications to be achieved using a single set of operating conditions:

3.1.1. Mid-mass (^{115}In) sensitivity: = 300,000 (cps/ppb)

Page Reference in supplied documentation : _____

3.1.2. Oxide (CeO⁺/ Ce⁺): = 3.0%

Page Reference in supplied documentation : _____

3.1.3. Doubly charged (Ce²⁺/ Ce⁺): = 3.0%

Page Reference in supplied documentation : _____

3.1.4. Mean background signal at 9 a.m.u.: = 5 cps

Page Reference in supplied documentation : _____

3.1.5. Short term stability (RSD), 10 ppb Li, Y, Tl: = 3% (20 min)

Page Reference in supplied documentation : _____

3.1.6. Long term stability (RSD), 10 ppb Li, Y, Tl: = 4% (2 hours)

Page Reference in supplied documentation : _____

4. SAFETY

4.1. The instrument must be fully interlocked for complete operator safety and full protection of the instrument against damage.

Page Reference in supplied documentation : _____

4.2. The instrument must meet all CSA requirements.

Page Reference in supplied documentation : _____