

**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

<b>Title - Sujet</b> Single-Sided NMR	
<b>Solicitation No. - N° de l'invitation</b> 31030-141991/A	<b>Date</b> 2014-05-30
<b>Client Reference No. - N° de référence du client</b> 31030-141991	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PV-941-65185	
<b>File No. - N° de dossier</b> pv941.31030-141991	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2014-07-14</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Martins, Christina	<b>Buyer Id - Id de l'acheteur</b> pv941
<b>Telephone No. - N° de téléphone</b> (819) 956-6911 ( )	<b>FAX No. - N° de FAX</b> (819) 956-3814
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> NATIONAL RESEARCH COUNCIL CANADA BLDG M-20 1200 MONTREAL RD OTTAWA Ontario K1A0R6 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

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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Single-sided nuclear magnetic resonance Single-Sided Nuclear Magnetic Resonance Spectrometer in accordance with the Mandatory Technical Requirements listed in Annex "A." Shipping, installation, training, manuals and software updates included.	31184	31030	1	LOT	\$	XXXXXXXXXXXX	XXXXXXXXXXXX	See Herein	

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## SINGLE-SIDED NUCLEAR MAGNETIC RESONANCE SPECTROMETER

### PART 1 - GENERAL INFORMATION

#### 1. Requirement

The requirement is Detailed under the "Line Item Detail" and herein.

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

#### 3. Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Agreement on Internal Trade (AIT).

### 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 (<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(2014-03-01) 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

##### 1.1 SACC Manual Clauses

B1000T	Condition of Material	2007-11-30
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#### 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. Enquiries - Bid Solicitation

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

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

#### 4. **Applicable Laws**

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

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

### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### 1. **Bid Preparation Instructions**

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

Section I:        Technical Bid (Three (3) hard copies)  
Section II:       Financial Bid (One (1) hard copy)  
Section III:      Certifications (One (1) hard 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.

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.

**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.

**1.1.1 Installation (BIDDER TO COMPLETE)**

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.

**1.1.2 Manuals**

One (1) complete set of operations and maintenance documentation in English and PDF format must be supplied with the Single-sided Nuclear Magnetic Resonance Spectrometer.

Demonstrations of the application for the quoted spectrometer outlining types of measurements must be included. This includes but is not limited to the following: Scholarly publications in the Journal of Magnetic Resonance and application notes.

**1.1.3 Training (BIDDER TO COMPLETE)**

One (1) day of on-site user training must be provided for up to four (4) 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.,

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**1.1.4 Service (BIDDER TO COMPLETE)**

Purchase of the Single-sided Nuclear Magnetic Resonance Spectrometer must include: regional technical support; technical phone support; support via the internet; and support via a fax-back document system for a minimum of one (1) year.

Response for service must 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.

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- 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).

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- 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.

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**1.1.5 Software Updates**

The Bidder 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.

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.

**1.1.6 Product(s) Offered (BIDDER TO COMPLETE)**

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 (\_\_\_\_)

**1.1.7 Point of Manufacture/Shipping (BIDDER TO COMPLETE)**

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

Location: \_\_\_\_\_

Postal Code: \_\_\_\_\_

**1.1.8 Contacts**

Bidders are requested to provide the following: Information pertaining to Article 5.4 Contractor Representatives under Part 6, Resulting Contract Clauses.

**1.2 Section II: Financial Bid**

The bidder must quote a firm lot price all inclusive of supply, installation, manuals, training and software updates, DDP (Ottawa, Ontario), the Goods and Services Tax (GST) and/or the Harmonized Sales Tax (HST) extra, as applicable. Freight charges to destination and all applicable Customs duties and Excise taxes must be included.

**1.2.1 Exchange Rate Fluctuation**

C3011T

Exchange Rate Fluctuation

2013-11-06

**1.3 Section III: Certifications**

Bidders must submit the certifications required under Part 5.

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

**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.

#### 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:

supporting  
to their

The bidder is required to cross reference with the exact location in the documentation the mandatory technical criteria contained herein supporting technical documentation.

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.

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

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

if

#### 1.2 Financial Evaluation

The lowest evaluated price will be established using the following criteria:

a) prices will be evaluated in Canadian Funds including any applicable 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 (Ottawa, Ontario) basis.

#### 2. 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.

## **1. Certifications Required Precedent to Contract Award and Certifications Required with the Bid**

### **1.1 Certifications Required Precedent to Contract Award**

#### **1.1.1 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 2004. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

#### **1.1.2 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Employment and Social Development Canada \(ESDC\) - Labours website](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml).

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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list at the time of contract award.

**PART 6 - RESULTING CONTRACT CLAUSES**

## **1. Security Requirement**

There is no security requirement applicable to this Contract.

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## 2. Requirement

The Contractor must provide the items detailed under the Line Item Detail.

### 2.2 Installation

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

### 2.3 Manuals

One (1) complete set of operations and maintenance documentation in English and PDF format must be supplied with the Single-sided Nuclear Magnetic Resonance Spectrometer.

Demonstrations of the application for the quoted spectrometer outlining types of measurements must be included. This includes but is not limited to the following: Scholarly publications in the Journal of Magnetic Resonance and application notes.

### 2.4 Training

One (1) day of on-site user training must be provided for up to four (4) users.

### 2.5 Service

Purchase of the Single-sided Nuclear Magnetic Resonance Spectrometer must include: regional technical support; technical phone support; support via the internet; and support via a fax-back document system for a minimum of one (1) year.

### 2.6 Software Updates

The Bidder 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.

## 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.

### 3.1 General Conditions

2010A (2014-03-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

## 4. Term of Contract

**4.1 Delivery Date**

All deliverables are requested on or before 1 December 2014.

**5. Authorities**

**5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Christina Martins  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Commercial and Consumer Products Directorate  
Place du Portage III, 6A2  
11 Laurier St. Gatineau, Quebec  
K1A 0S5  
Telephone: (819) 956-6911  
Facsimile: (819) 956-3814  
Christina.Martins@tpsgc-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 COMPLETED AT TIME OF CONTRACT AWARD)**

The Technical Authority for the Contract is:

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

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the 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 Procurement Authority (TO BE COMPLETED AT TIME OF CONTRACT AWARD)**

The Procurement Authority for the Contract is:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail address: \_\_\_\_\_

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Procurement Authority, however the Procurement 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.

#### 5.4 Contractor's Representative (PLEASE FILL IN)

General Enquiries

Delivery Follow-up

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

E-mail address: \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 6. Payment

### 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 lot price as specified in the contract, DDP Delivered Duty Paid (Ottawa, Ontario) Incoterms 2000. Customs duties are included and Applicable Taxes extra, if applicable.

#### 6.1.1 Limitation of Price

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.

#### 6.1.2 SACC Manual Clauses

H1000C          Single Payment

08/05/12

## 7. Invoicing Instructions

- a) 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.

**FOR PROMPT PAYMENTS, ENSURE THE CONTRACT NO./P.O. NUMBER APPEARS ON ALL DOCUMENTATION.**

b) 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. The Contract serial number: 31030-141991 must appear on all invoices.

(b) One (1) copy must be forwarded to the Contracting Authority identified under

the section entitled "Authorities" of the Contract.

## **8. Certifications**

### **8.1 Compliance**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing co-operation 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.

## **9. Applicable Laws**

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

## **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) 4003(2010-08-16) Supplemental General Conditions - Licensed Software, apply to and form part of the Contract;
- (c) 2010A (2013-04-25) General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement; and
- (e) the Contractor's bid dated \_\_\_\_\_. **(insert date of bid)**

## **11. SACC Manual Clauses**

B1501C

Electrical Equipment

2006/06/16

Solicitation No. - N° de l'invitation

31030-141991/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

pv941

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

31030-141991

pv94131030-141991

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A9068C	Government Site Regulations	2010/01/11
A2000C	Foreign Nationals (Canadian Contractor)	
2006/06/16		
A2001C	Foreign Nationals (Foreign Contractor)	2006/06/16

## 12. 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.

**ANNEX A  
REQUIREMENT  
SINGLE-SIDED NUCLEAR MAGNETIC RESONANCE SPECTROMETER**

1. Spectrometer type and magnet must consist of the following:

a. Nuclear magnetic resonance

**Bidders Proposal:** \_\_\_\_\_

b. Portable: no element can be heavier than 40kg

**Bidders Proposal:** \_\_\_\_\_

c. Magnet with a non-homogeneous magnetic field

**Bidders Proposal:** \_\_\_\_\_

d. Magnet is mounted to a sample stage for precise positioning and motion control

**Bidders Proposal:** \_\_\_\_\_

e. Spectrometer must allow for the operation of magnets with different field strengths, e.g. between 5-10 Tesla/metre.

**Bidders Proposal:** \_\_\_\_\_

2. Magnetic shielding and vibration control must consist of:

a. Shielded cables

**Bidders Proposal:** \_\_\_\_\_

b. Sample stage is protected against low frequency vibrations, Hz-range frequencies

**Bidders Proposal:** \_\_\_\_\_

c. Transmission and reception radio-frequency (RF) coils are separate

**Bidders Proposal:** \_\_\_\_\_

d. RF coils are protected for acoustic ringing in the kHz to MHz range.

**Bidders Proposal:** \_\_\_\_\_

3. Measurements must include:

a. Depth profiling

**Bidders Proposal:** \_\_\_\_\_

b. Proton relaxation

**Bidders Proposal:** \_\_\_\_\_

c. Transverse relaxation

**Bidders Proposal:** \_\_\_\_\_

d. Longitudinal relaxation

**Bidders Proposal:** \_\_\_\_\_

e. Diffusion

**Bidders Proposal:** \_\_\_\_\_

4. Motion control, penetration depth and resolution characteristics must consist of:

a. Position of magnetic probe away from the sample plane can be adjusted in a step wise manner to do depth profiling between 10 micrometres and 5 millimetres.

**Bidders Proposal:** \_\_\_\_\_

b. Resolution in depth profiling to 5 millimetre must be at least 10 micrometres.

**Bidders Proposal:** \_\_\_\_\_

c. Position of magnetic probe away from the sample plane can be adjusted in a step wise manner to do depth profiling between 100 micrometres and 25 millimetres.

**Bidders Proposal:** \_\_\_\_\_

d. Resolution in depth profiling to 25 millimetre must be at least 100 micrometres.

**Bidders Proposal:** \_\_\_\_\_

5. Software must include, but not limited to:

a. A perpetual user license

**Bidders Proposal:** \_\_\_\_\_

b. Capable of being installed on a minimum of three (3) computers with the same license

**Bidders Proposal:** \_\_\_\_\_

c. Operates on Windows 7

**Bidders Proposal:** \_\_\_\_\_

d. Software must allow for the following:

i. Calibration of the magnetic probe

**Bidders Proposal:** \_\_\_\_\_

ii. Diagnostic of the magnetic probe

**Bidders Proposal:** \_\_\_\_\_

iii. Acquisition of nuclear relaxation from protons

**Bidders Proposal:** \_\_\_\_\_

iv. Acquisition of nuclear relaxation from fluorine

**Bidders Proposal:** \_\_\_\_\_

v. Acquisition of longitudinal relaxation, i.e., T1

**Bidders Proposal:** \_\_\_\_\_

vi. Acquisition of transverse relaxation, i.e., T2

**Bidders Proposal:** \_\_\_\_\_

vii. Modeling of nuclear relaxation decay with fitting functions

**Bidders Proposal:** \_\_\_\_\_

viii. Signal transforms, e.g., Fourier, Laplace, & Hilbert transforms

**Bidders Proposal:** \_\_\_\_\_

ix. Analysis of relaxation, density and diffusion data

**Bidders Proposal:** \_\_\_\_\_

x. 1-, 2-, 3- dimensional display of data

**Bidders Proposal:** \_\_\_\_\_

xi. Data processing with established routines, e.g. negative-number least squares

**Bidders Proposal:** \_\_\_\_\_

e. Contains user selectable pre-programmed echo sequences and detection schemes for inhomogeneous magnetic field, e.g, stimulated echo with CPMG detection for T1.

**Bidders Proposal:** \_\_\_\_\_

f. Allow users to defined echo and detection sequences

**Bidders Proposal:** \_\_\_\_\_

6. Electrical supply must consist of the following:

a. 110-120V

**Bidders Proposal:** \_\_\_\_\_

b. 50-60Hz

**Bidders Proposal:** \_\_\_\_\_

c. North-American plug

**Bidders Proposal:** \_\_\_\_\_

## 7. Manuals

a. One (1) complete set of operations and maintenance documentation.

**Bidders Proposal:** \_\_\_\_\_