



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Travaux publics et Services gouvernementaux  
Canada

Place Bonaventure, portail Sud-Oue  
800, rue de La Gauchetière Ouest

7e étage, suite 7300

Montréal

Québec

H5A 1L6

FAX pour soumissions: (514) 496-3822

**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> Multi-Mode Microplates Reader	
<b>Solicitation No. - N° de l'invitation</b> 23125-190123/A	<b>Date</b> 2018-10-01
<b>Client Reference No. - N° de référence du client</b> 23125-190123	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTA-425-15048	
<b>File No. - N° de dossier</b> MTA-8-41096 (425)	<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 2018-11-14</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Normale du l'Est HNE
<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> Leporé, Denis	<b>Buyer Id - Id de l'acheteur</b> mta425
<b>Telephone No. - N° de téléphone</b> (514) 701-6852 ( )	<b>FAX No. - N° de FAX</b> (514) 496-3822
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> MINISTERE DES RESSOURCES NATURELLES PHILIPPE TANGUAY 1055 RUE DU P.E.P.S. , PIÈCE 33A TÉL: 418 648-7556 QUÉBEC Québec G1V 4C7 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**

Travaux publics et Services gouvernementaux Canada

Place Bonaventure, portail Sud-Oue

800, rue de La Gauchetière Ouest

7e étage, suite 7300

Montréal

Québec

H5A 1L6

<b>Delivery Required - Livraison exigée</b>	<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/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 – GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement applicable to the Contract.

### **1.2 Requirement**

The Work to be performed is detailed under Article 6.2 - Requirement of the resulting contract clauses.

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

### **1.4 Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

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

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

The [2003](#) (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### **2.1.1 SACC Manual Clauses**

[B1000T](#) (2014-06-26) Condition of Material - Bid

### **2.2 Submission of Bids**

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

### 2.3 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.

### 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 Québec.

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

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Due to the nature of the bid solicitation, bids transmitted by epost Connect service will not be accepted.

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

Section I: Technical Bid (3 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

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

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

### **Section I: Technical Bid**

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

### **Section II: Financial Bid**

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

#### **3.1.1 Electronic Payment of Invoices – Bid**

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

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

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

#### **3.1.2 Exchange Rate Fluctuation**

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

### **Section III: Certifications**

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

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

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

#### **4.1.1 Technical Evaluation**

It is mandatory to provide the technical / descriptive documents of the product that you are offering (eg. drawing, data sheet, sketch, etc.) or a description to allow it's technical evaluation. Failure to comply will render your bid non responsive.

You must demonstrate in your technical submission that your product is compliant with the **Mandatory technical specifications to be demonstrated** of Annex "C" (criteria no. 2.1.2, 2.1.3, 2.2, 2.3 and 2.5.2 from the Annex A).

*Note: The other Mandatory technical specifications of Annex "A" are not to be demonstrated but remain mandatory technical specifications to be met.*

#### **4.1.1.1 Mandatory Technical Criteria**

See Annex C - Mandatory technical specifications to be demonstrated.

#### **4.1.2 Financial Evaluation**

Total financial evaluation: Sum of total prices of items A + B + C + D + E + F + G mentioned in Annex "B".

##### **4.1.2.1 SACC Manual Clauses**

SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price

#### **4.2 Basis of Selection**

##### **4.2.1 Basis of Selection - Mandatory Technical Criteria**

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

### **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

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

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

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

#### **5.1 Certifications Required with the Bid**

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

##### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

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

#### **5.2 Certifications Precedent to Contract Award and Additional Information**

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

### 5.2.1 Integrity Provisions – Required Documentation

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

### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

## PART 6 - RESULTING CONTRACT CLAUSES

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

### 6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

### 6.2 Requirement

The Contractor must provide a multi-mode microplate reader system in accordance with the Requirement at Annex "A" and the Contractor's technical bid dated \_\_\_\_\_. (*will be filled at the time of contract award*)

### 6.3 Standard Clauses and Conditions

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

#### 6.3.1 General Conditions

[2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 6.3.2 Supplemental General Conditions

4003 (2010-08-16), Licensed Software, apply to and form part of the Contract;

4004 (2013-04-25), Maintenance and Support Services for Licensed Software, apply to and form part of the Contract.

- These Supplemental General Conditions will only apply if the "Additional Software for Data Analytics" (Annex A – 3.0 Purchase Options) option is applied to the contract.

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

The period of the Contract is from \_\_\_\_\_ (*fill in start date of the period*) to \_\_\_\_\_ inclusive (*fill in end date of the period*).

#### 6.4.2 Delivery Date

While delivery is requested by December 31st, 2018, the best delivery that could be offered is \_\_\_\_\_. (*to be completed by the tenderer*).

#### 6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point specified below:

Natural Resources Canada  
Laurentian Forestry Centre  
1055 Du P.E.P.S., (Loading Dock)  
Québec, (Québec)  
G1V 4C7

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Denis Leporé  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
800 De La Gauchetière Street, Room 7300  
Telephone: 514-701-6852  
Facsimile: 514-496-3822  
E-mail address: [denis.lepore@tpsgc-pwgsc.gc.ca](mailto:denis.lepore@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.

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File No. - N° du dossier  
MTA-8-41096

Buyer ID - Id de l'acheteur  
mta425  
CCC No./N° CCC - FMS No./N° VME

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## 6.5.2 Project Authority

The Project Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_ \_\_\_\_ \_\_\_\_\_  
Facsimile: \_\_\_\_ \_\_\_\_ \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

## 6.5.3 Contractor's Representative *(to be completed by the tenderer)*

Name: \_\_\_\_\_  
Telephone: \_\_\_\_ \_\_\_\_ \_\_\_\_\_  
Facsimile: \_\_\_\_ \_\_\_\_ \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## 6.6 Payment

### 6.6.1 Basis of Payment

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

The contract will be awarded in Canadian currency. The rate given by the Bank of Canada in effect on the bid solicitation closing date will be applied as a conversion factor.

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 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

### 6.6.3 Single Payment

SACC Manual clause [H1000C](#) (2008-05-12) Single Payment

#### 6.6.4 SACC Manual Clauses

- [A2000C](#) (2006-06-16) Foreign Nationals (Canadian Contractor)
- [A2001C](#) (2006-06-16) Foreign Nationals (Foreign Contractor)
- [C2000C](#) (2007-11-30), Taxes - Foreign-based Contractor

#### 6.6.5 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

#### 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.

#### 6.8 Certifications and Additional Information

##### 6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

#### 6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_ (*insert the name of the province or territory as specified by the Bidder in its bid, if applicable*).

## 6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions [4003](#) (2010-08-16), Licensed Software, apply to and form part of the Contract;
- (c) the supplemental general conditions [4004](#) (2013-04-25), Maintenance and Support Services for Licensed Software, apply to and form part of the Contract.
- (d) the general conditions [A2010A](#) (2018-06-21) General Conditions - Goods (Medium Complexity);
- (e) Annex A, Requirement;
- (f) Annex B, Basis of payment;
- (g) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on \_\_\_\_\_” or “, as amended on \_\_\_\_\_” and insert date(s) of clarification(s) or amendment(s)*)

## 6.11 SACC Manual Clauses

- [A9068C](#) (2010-01-11) Government Site Regulations
- [B9028C](#) (2007-05-25) Access to Facilities and Equipment
- [G1005C](#) (2016-01-28) Insurance - No Specific Requirement
- [B1501C](#) (2006-06-16) Electrical Equipment

## **ANNEX "A"**

### **REQUIREMENT**

#### **1.0 Background**

The Laurentian Forestry Centre (Canadian Forest Service (CFS)-Québec) of Natural Resources Canada needs a multi-mode microplate reader. This multi-mode microplate will serve different purposes. It will be used to conduct enzymatic assays. It will also be used to simultaneously characterize the microbial growth of multiple strains on multiple substrates over several days. For the CFS teams working on priority domains such as genomics and pests controls, this reader will allow to obtain cutting edge results that will translate into an international recognition of the SCF.

#### **2.0 Mandatory technical specifications**

**The delivered multi-mode microplate must have the following specifications:**

- 2.1 The multi-mode microplate reader:
  - 2.1.1 must be equipped with a xenon flash lamp light source.
  - 2.1.2 must allow for absorbance readings from 200 nm to 1,000 nm, with a scanning rate of 200-1,000 nm < 5 seconds/well. The reader must have a dynamic spectrum of 0-4 optical density (OD) with a 0.0001 OD resolution. The 260 nm absorbance reading must enable the detection of nucleic acids at a concentration as low as 1 ng/ul.
  - 2.1.3 must be able to take fluorescence readings on both the top and bottom of the microplate in the following spectra:
    - excitation spectrum: 230–900 nm with an accuracy of <2 nm
    - emission spectrum: 280–900 nm with an accuracy of <2 nm
  - 2.1.4 must include excitation and fluorescence emission filters or "monochromators" for the following common fluorophores, ranging from UV to IR:
    - DAPI
    - mTurquoise
    - eGFP
    - mCherry
    - mKate
    - AlexaFluor 750
  - 2.1.5 must allow for the reading of 6-, 12-, 24-, 48-, 96- and 384-well microplates.
  - 2.1.6 must allow for the linear or orbital shaking of microplates at varying amplitudes and frequencies.
- 2.2 The device must include a cooling module able to maintain a constant temperature of 18 to 35 degrees Celsius within the reading unit.
- 2.3 The device must include an automated loader (plate stacker) that can accommodate up to 50 microplates and take kinetic readings continuously for at least 10 days; the system must

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be able to read a minimum of one absorbance range and one fluorescence range on 50 microplates every hour for 10 days.

2.4 Firmware for acquiring and processing data from absorbance and fluorescence readings:

- 2.4.1 must be supplied with the device.
- 2.4.2 must be intuitive and easy to use: a junior technician must be able to use all basic features after less than 3 hours of training.
- 2.4.3 must have the capacity to program the microplate reader.
- 2.4.4 must control all parameters of the microplate reader.
- 2.4.5 must be able to take readings continuously.
- 2.4.6 must be able to export the data in Excel.

2.5 Dimensions and operating constraints:

- 2.5.1 The equipment must operate on 120 V, 60 Hz.
- 2.5.2 The dimensions of the system, including the plate loader and the cooling module, must not exceed 32" x 32" x 48" (L x W x H) and its weight must not exceed 100 kg. It must be able to be placed on a cart and moved from one room to another through standard door openings (< 34" x 82").
- 2.5.3 The system must be capable of operating at temperatures ranging from 10 to 40 degrees Celsius and relative humidity ranging from 30% to 70%.

2.6 Computer equipment:

- 2.6.1 Apart from power supply and computer connection cables, no other hardware (computer, monitor, mouse, keyboard) is required.
- 2.6.2 The firmware for controlling the multi-mode microplate reader and related modules (cooling module and microplate loader) must be compatible with Microsoft Windows 7.

2.7 Installation, training and technical support:

- 2.7.1 The supplier agrees to install the entire system (readers, microplate loader, cooling module, computer and software) at the purchaser's site so as to render it operational and ready for use by the purchaser.
- 2.7.2 The supplier agrees to provide at least 3 hours of basic training, to five (5) users, on the use of the multi-mode microplate reader and related software. The training must be given in French language within two (2) months following the delivery /installation.
- 2.7.3 The supplier agrees to provide consulting support for at least one year following the purchase of the system and to respond to all telephone and e-mail requests within 48 business hours.
- 2.7.4 The supplier agrees to provide an instruction manual in English or French on the system's operating, safety, and maintenance procedures.

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### **3.0 Purchase options:**

- Additional software for data analytics
- Extended warranty (one, two or three years)
- Luminescence data acquisition module

### **4.0 Delivery and Installation**

The Multi-mode microplate reader must be delivered and installed to the Laurentian Forestry Centre at the following address:

Natural Resources Canada  
Laurentian Forestry Centre  
1055 Du P.E.P.S., (Loading Dock)  
Québec, (Québec)  
G1V 4C7

**ANNEX "B"**  
**BASIS OF PAYMENT**

Article	Description	Quantity	Unit Price	Total Price
A	Multi-Mode Microplate Reader as described in Annex A – Requirement, Section 2.0 Mandatory technical Specifications  Make offered : _____  Model offered : _____	1	_____ \$	_____ \$
B	Delivery and installation of the system as described in Annex A – Requirement, at 4.0 Delivery-Installation  Delivered at place (DAP) Quebec (Quebec) Incoterms 2010 for shipments from a commercial contractor.	1	_____ \$	_____ \$
	<b>PURCHASE OPTIONS</b>  <b>IMPORTANT: The decision whether or not to use one or more options will be made before the contract award.</b>			
C	Additional Software for data analytics	1	_____ \$	_____ \$
D	Extended warranty (one year)	1	_____ \$	_____ \$
E	Extended warranty (two years)	1	_____ \$	_____ \$
F	Extended warranty (three years)	1	_____ \$	_____ \$
G	Luminescence data acquisition module	1	_____ \$	_____ \$
	<b>TOTAL (A + B + C + D + E + F + G)</b>			_____ \$

## ANNEX "C"

### MANDATORY TECHNICAL SPECIFICATIONS TO BE DEMONSTRATED

The required equipment must have the descriptions and specifications mentioned at Annex «A» - Requirement - Mandatory Technical Specifications. These descriptions and specifications are indicated hereafter by numbers ranging 2.1.2, 2.1.3, 2.2, 2.3 and 2.5.2.

It is mandatory to provide the technical / descriptive documents of the product that you are offering (eg. drawing, data sheet, sketch, etc.) or a description to allow its technical evaluation. Failure to comply will render your bid non responsive.

No.	Mandatory technical Specifications	Reference : Please specify where can be found these items within your technical/descriptive documents and/or technical literature/notes. (Page and/or Section)
2.1.2	The multi-mode microplate reader must allow for absorbance readings from 200 nm to 1000 nm.	Page: _____ Section: _____
2.1.3	<p>The multi-mode microplate reader must allow for fluorescence readings on both the top and bottom of the microplate in the following spectra:</p> <ul style="list-style-type: none"> <li>• excitation spectrum: 230-900 nm with an accuracy of &lt;2 nm</li> <li>• emission spectrum: 280-900 nm with an accuracy of &lt;2 nm</li> </ul>	Page: _____ Section: _____
2.2	The multi-mode microplate reader must include a cooling module able to maintain a constant temperature of 18 to 35 degrees Celsius within the reading unit.	Page: _____ Section: _____
2.3	The multi-mode microplate reader must include an automated loader (plate stacker) that can accommodate up to 50 microplates and take kinetic readings continuously for at least 10 days; the system must be able to read a minimum of one absorbance range and one fluorescence range on 50 microplates every hour for 10 days.	Page: _____ Section: _____
2.5.2	The dimensions of the system, including the plate loader and the cooling module, must not exceed 32" x 32" x 48" (L x W x H) and its weight must not exceed 100 kg. It must be able to be placed on a cart and moved from one room to another through standard door openings (< 34" x 82").	Page: _____ Section: _____

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## **ANNEX "D"**

### **ELECTRONIC PAYMENT INSTRUMENTS**

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

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

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**ANNEX "E"**

**COMPLETE LIST OF COMPANY BOARD OF DIRECTORS**

**NOTE TO BIDDERS**

**WRITE ALL DIRECTOR'S SURNAMES AND GIVEN NAMES IN BLOCK LETTERS**

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