



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada  
Room 100,  
167 Lombard Ave.  
Winnipeg  
Manitoba  
R3B 0T6  
Bid Fax: (204) 983-0338

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

### Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

### Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

### Comments - Commentaires

### Vendor/Firm Name and Address

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

### Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Western  
Region  
Room 100  
167 Lombard Ave.  
Winnipeg  
Manitoba  
R3B 0T6

<b>Title - Sujet</b> Soil & Water Measurement Equipment	
<b>Solicitation No. - N° de l'invitation</b> 01633-181120/A	<b>Date</b> 2018-04-19
<b>Client Reference No. - N° de référence du client</b> 01633-181120	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$WPG-201-10528	
<b>File No. - N° de dossier</b> WPG-7-40234 (201)	<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 2018-05-30</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Central Daylight Saving Time CDT
<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> Loxton, Ashley	<b>Buyer Id - Id de l'acheteur</b> wpg201
<b>Telephone No. - N° de téléphone</b> (204) 510-9537 ( )	<b>FAX No. - N° de FAX</b> (204) 983-7796
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF AGRICULTURE AND AGRI-FOOD 2701 GRAND VALLEY RD PO BOX 1000A RR3 BRANDON Manitoba R7A5Y3 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

<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/</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 Requirement

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

### 1.2 Debriefings

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

### 1.3 Trade Agreements

The requirement is subject to the provisions 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 \(2017-04-27\)](#) 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

[B3000T \(2016-06-16\)](#), Equivalent Products

### 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 [\(5\)](#) 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 [Manitoba](#).

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

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

### **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Canada requests that bidders follow the format instructions described below in the preparation of hard copy 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>). 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 “C” Electronic Payment Instruments, to identify which ones are accepted.

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

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

### 3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

## Section III: Certifications

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

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 4.1 Evaluation Procedures

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

#### 4.1.1 Technical Evaluation

##### 4.1.1.1 Mandatory Technical Criteria

- a) Mandatory technical evaluation criteria are included in Annex “C”.

#### 4.1.2 Financial Evaluation

*SACC Manual* Clause [A0222T](#) (2014-06-26), Evaluation of Price - Canadian / Foreign Bidders

### 4.2 Basis of Selection

*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 Additional Certifications Required with the Bid

### 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 [Soil and Water Measurement Equipment](#) in accordance with the Requirement at Annex "A" and the Contractor's technical bid entitled \_\_\_\_\_, dated **TBD**.

### 6.3 Standard Clauses and Conditions

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

### 6.3.1 General Conditions

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

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

The period of the Contract is from date of Contract to September 28, 2018 inclusive.

#### 6.4.2 Delivery Date

While delivery is requested by June 30, 2018, the best delivery that could be offered is \_\_\_\_\_.

#### 6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Mr. Ashley Loxton  
Title: Procurement Officer  
Public Services and Procurement Canada  
Procurement Branch  
Directorate: Western Region  
Address: 100-167 Lombard Avenue

Telephone: 204-510-9537  
Facsimile: 204-983-7796  
E-mail address: [ashley.loxton@pwgsc-tpsgc.gc.ca](mailto:ashley.loxton@pwgsc-tpsgc.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### 6.5.2 Project Authority

The Project Authority for the Contract is: **TBD**

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.

Solicitation No. - N° de l'invitation  
01633-181120/A  
Client Ref. No. - N° de réf. du client  
01633-181120

Amd. No. - N° de la modif.  
File No. - N° du dossier  
WPG-7-40234

Buyer ID - Id de l'acheteur  
WPG201  
CCC No./N° CCC - FMS No./N° VME

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### 6.5.3 Contractor's Representative

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

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

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

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

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

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

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

### 6.6 Payment

#### 6.6.1 Basis of Payment - Firm Lot Price(s)

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

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

#### 6.6.2 Limitation of Price

SACC Manual clause **C6000C** (2017-08-17), Limitation of Price

#### 6.6.3 Single Payment

**H1000C** (2008-05-12), Single Payment

#### 6.6.4 SACC Manual Clauses

**C2000C** (2007-11-30), Taxes - Foreign-based Contractor

**C5201C** (2008-05-12), Prepaid Transportation Costs

#### 6.6.5 Electronic Payment of Invoices – Contract

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

- 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 [Manitoba](#).

## 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 general conditions [2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_.

## 6.11 SACC Manual Clauses

[B7500C](#) (2006-06-16), Excess Goods  
[B1501C](#) (2006-06-16), Electrical Equipment  
[G1005C](#) (2016-01-28), Insurance - No Specific Requirement

## 6.12 Inspection and Acceptance

The [Technical](#) Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

## **ANNEX "A"**

### **REQUIREMENT**

#### **DEFINITION OF REQUIREMENT**

The Department of Agriculture & Agri-Food Canada (AAFC) in Brandon, Manitoba has a requirement for the supply and delivery of various Original Equipment Manufacturer (OEM) Soil and Water Measurement Equipment "or equivalent" products.

This equipment must measure water content from approximately saturation (all pores filled with water) to field capacity (where gravity has drained away all of the water it can) to the water content where plants wilt. An additional laboratory machine is needed to assess the amount of water present at wilting point.

Equipment is also needed to verify that drought simulators and irrigation treatments are modifying the soil water contents. It is essential to measure soil water content using a portable sensor that will also allow for use in other existing projects and with colleagues. Grab samples are destructive to soil structure. An in-situ method cannot be moved or used.

Equipment is also need to measure soil water infiltration. This is also called field saturated hydraulic conductivity. Soil must be saturated and vertical (i.e. approximately one dimensional) water movement must be measured.

Equipment to measure soil compaction profiles with depth, or penetration resistance is also needed. Soil compaction influences many soil functions including water and nutrient movement but also root penetration (i.e., the ability of plant roots to growth and search for nutrients). Soil tillage and irrigation regimes would be expected to influence this. Similar to measuring soil water content at points in time, the soil structure needs to be kept intact and measuring penetration resistance with depth in the field gives minimal soil disturbance relative to taking bulk density samples.

#### **EQUIVALENT**

"Or equivalent" to follow wherever the manufacturer's name, brand name, model and/or part number are listed. A complete list is detailed in Annex "B" Basis of Payment.

## ANNEX "B"

### BASIS OF PAYMENT

It is MANDATORY that Bidders submit firm prices for the period of the proposed Contract for all items listed hereafter. **This section, when completed will be considered as the Bidder's financial proposal.**

Bidders are requested to provide pricing as per unit of issue requested. It is the responsibility of the bidder to provide conversion to the unit of issue requested. Failure to do so may render the bid non-responsive without further consideration.

Should there be an error in the extended pricing of the bidder's proposal, the unit pricing will prevail and the extended pricing will be corrected in the evaluation. Any errors in the quantities of the bidder's proposal will be changed to reflect the quantities stated in the Basis of Payment.

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm prices, as specified below. Pricing must be all-inclusive in Canadian (CDN) funds. Customs duties are included and Applicable Taxes are extra.

Prices must include all costs including freight and off-loading charges, FOB destination, associated with providing the Goods in accordance with the Requirement in Annex "A" and Annex "B". Applicable taxes are extra and are to be shown as a separate item on any resulting invoice.

**Delivery FOB Destination:** Agriculture & Agri-Food Canada (AAFC)  
2701 Grand Valley Road  
Brandon, Manitoba  
R7A-5Y3

### Financial Evaluation:

1. For each line item listed in table below, the required quantity will be multiplied by the firm unit price = extended price.

2. The extended price for each line item will be added together = Total Evaluated Price.

If the Bidder proposes to supply an equivalent product, the bidder must include the manufacturer's name, brand name, brand model and /or part number of proposed product.

### Firm Unit Pricing – Canadian (CDN) Funds

Item	Original Equipment Manufacturer (OEM)	Description	Qty	Unit of Issue	Unit Price	Extended Price
1	<u>(OEM): METER Group Inc.</u>  "or equivalent"  Proposed Product: _____	HYPROP complete set incl. HYPROP-balance with USB. Incl. sensor unit, tensiometer shafts, software, cables, USB-converter, HYPROP service kit.  "or equivalent"	1	Set	\$	\$

2	<u>(OEM): METER Group Inc.</u> <b>“or equivalent”</b> Proposed Product: 	HYPROP extension set including sensor unit, tensiometer shafts, and connection cables - Up to 19 extension sets can be run on one Hyprop lab system.  <b>“or equivalent”</b>	7	Set	\$	\$
3	<u>(OEM): METER Group Inc.</u> <b>“or equivalent”</b> Proposed Product: 	HYPROP Refill-Unit/110VAC. Complete setup for one HYPROP, incl. vacuum pump (achievable vacuum 8 bar, 20 liter per min., 110VAC/US-plug), HYPROP-Vacuum-mount (stand with vacuum bottle, gauge), HYPROP-Beaker-mount (stand with refilling adapters for up to 4 HYPROP shafts and 1 sensor unit)  <b>“or equivalent”</b>	1	Set	\$	\$
4	<u>(OEM): METER Group Inc.</u> <b>“or equivalent”</b> Proposed Product: 	UMS hammering holder SZA250 for sampling rings 250 ml. Length 300 mm, weight 0.9 kg, handle with hand protection, for rings with outer diam. 84 mm.  <b>“or equivalent”</b>	1	Set	\$	\$
5	<u>(OEM): METER Group Inc.</u> <b>“or equivalent”</b> Proposed Product: 	Spare UMS soil sampling ring SZ250, vol. 250 ml, stainless steel, low friction polished for minimum soil compaction, ID-number and tare weight laser imprinted, outer diam. 84 mm, inner diam. 80 mm, height 50 mm, incl. 2 caps. Suitable for HYPROP, KSAT or BaPS250.  <b>“or equivalent”</b>	72	Set	\$	\$
6	<u>(OEM): METER Group Inc.</u> <b>“or equivalent”</b> Proposed Product: 	WP4C Water Potential Meter  <b>“or equivalent”</b>	1	Set	\$	\$

7	<u>(OEM): METER Group Inc.</u> <b>"or equivalent"</b> Proposed Product: _____	SC4, Sample Cups (set of 10) Stainless Steel for WP4C Water Potential Meter.  <b>"or equivalent"</b>	1	Set	\$	\$
8	<u>(OEM): METER Group Inc.</u> <b>"or equivalent"</b> Proposed Product: _____	DHI Saturo Dualhead Infiltrrometer Includes: Control Unit, Infiltrrometer Head, 5 gallon (19L) water tank, Driving Plate, Insertion Ring, connecting hoses, USB Drive (Downloading Utility), 18V AC/DC Battery Charger  <b>"or equivalent"</b>	1	Set	\$	\$
9	<u>(OEM): Delta T Devices</u> <b>"or equivalent"</b> Proposed Product: _____	ML3 Theta Kit Portable soil moisture measuring kit. Includes ML3 Theta Probe, SMSC/d-HH2 cable, pack of 4 x spare stainless steel rods, HH2 Moisture Meter (with spare alkaline battery), Insertion Kit ML-INK1, USB-RS232 adapter cable, Quick Start Guide and carrying case HHCC3.  <b>"or equivalent"</b>	1	Set	\$	\$
10	<u>(OEM): Eijkelkamp</u> <b>"or equivalent"</b> Proposed Product: _____	Penetrologger 06.15.SA with GPS, standard set for measurement to a depth of 80 cm. Complete set with penetrometer, cones, sounding rods, depth reference plate, battery charger, penetrometer cable, software Penetroviewer, tools and carrying case.  <b>"or equivalent"</b>	1	Set	\$	\$
11	Delivery Charges	Delivery charges, including freight and off-loading charges FOB to: <b>Agriculture &amp; Agri-Food Canada (AAFC)</b> <b>2701 Grand Valley Road</b> <b>Brandon, Manitoba R7A-5Y3</b>	1	Lot	\$	\$

Sub Total: \_\_\_\_\_

GST/HST, if applicable: \_\_\_\_\_

TOTAL: \_\_\_\_\_

## ANNEX “C”

### COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

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

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

### COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:

#### Water Measurement Equipment

Item	Performance Specification	(M) Mandatory	Bidder's Cross Reference and/or Response
<b>1.0</b>	<b>Soil Water Retention: Reference to Annex B Item# 1-7</b>		
1.1	Must be measurable in lab setting	M	
1.2	Must be capable of running 8 intact cores or more, simultaneously	M	
1.3	System must measure from saturation to wilting point minimum (-10 kPa to -1500 kPa), can be multiple units, not necessarily continuous data	M	
1.4	Must be measurable using the evaporation and/or water potential method	M	
1.5	Must use intact soil cores in the laboratory for pressures nearer to saturation minimum (-10 kPa to -250 kPa).	M	
1.6	Must automatically record data nearer to saturation minimum (-10kPa to -250kPa)	M	

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1.7	Must rapidly measure water content/potential at dry range minimum (< 30 minutes at -1500 kPa)	M	
<b>2.0</b>	<b>Soil Water Infiltration: Reference to Annex B Item# 8</b>		
2.1	Must measure field-saturated hydraulic conductivity	M	
2.2	Must be portable for in-field use minimum 0 to > 20 degrees C	M	
2.3	Must be capable of recording and storing data	M	
<b>3.0</b>	<b>Soil Water Content: Reference to Annex B Item# 9</b>		
3.1	Must measure volumetric soil water content minimum (0 to 100 %)	M	
3.2	Must be portable for in-field use (at < 0 degrees C)	M	
3.3	Must be capable of recording and storing data	M	
3.4	Must be compatible with (Delta T Device code E312-ML3-KIT)	M	
<b>4.0</b>	<b>Penetration Resistance: Reference to Annex B Item# 10</b>		
4.1	Must be portable for in-field use with minimum battery life of 3 hours	M	
4.2	Must have GPS capability	M	
4.3	Must measure from minimum 0 to 50 cm depth or more	M	
4.4	Must automatically record more than 1000 data points	M	

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## **ANNEX “D” to PART 3 OF THE BID SOLICITATION**

### **ELECTRONIC PAYMENT INSTRUMENTS**

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

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