



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**

1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet Automated Weather Station	
Solicitation No. - N° de l'invitation W7707-196432/B	Date 2019-04-26
Client Reference No. - N° de référence du client W7707-19-6432	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-121-5879	
File No. - N° de dossier HAL-8-80065 (121)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-05-14	Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Russell (HAL), Alex	Buyer Id - Id de l'acheteur hal121
Telephone No. - N° de téléphone (902) 401-8180 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scot
B3J 1T3

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

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PART 1 - GENERAL INFORMATION

1.1 Statement of Requirement

Defence Research and Development Canada (DRDC) has a requirement for automated weather stations (AWS) that can operate continuously under harsh environments in the Arctic as specified in Annex A.

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 Canadian Free Trade Agreement (CFTA).

1.4 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 90 days

2.2 Submission of Bids

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

Bid Receiving Unit
1713 Bedford Row
Halifax, NS B3J 3C9
902-496-5016 Fax

Email address to establish ePost Connect Service:

TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca

NOTE: Bids/Offers will be not be accepted if emailed directly to this email address. This email is to initiate an ePost Connect conversation, as detailed in the Standard Instructions.

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 Nova Scotia.

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

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (3 hard copies)
Section II: Financial Bid (1 hard copies)
Section III: Certifications (1 hard copies)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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.

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

Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Bidder must meet each criteria identified in Annex A – 5.1. Bidders are requested to provide details demonstrating each criteria with their bid. Canada may request additional proof of any or all criteria listed prior to award.

Bidders are encouraged to use Annex D as a guide for ensuring all criteria are identified in their bid submission.

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price

4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

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

There is no security requirement applicable to the Contract.

6.2 Statement of Requirement

Defence Research and Development Canada (DRDC) has a requirement for an automated weather station (AWS) that can operate continuously under harsh environments in the Arctic as specified in Annex A.

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.

6.4 Term of Contract

6.4.1 Delivery Date

Deliverable	Delivery date	Best delivery offered
Annex A 6.1	August 20, 2019	
Annex A 6.2	August 20, 2019	
Annex A 6.3	August 20, 2019	
Annex A 6.4	40 hours following receipt of Deliverables 6.1, 6.2 and 6.3.	

6.4.2 Delivery Points

Delivery of the requirement will be made to:

Defence Research and Development Canada – Atlantic Research Centre
Building DA-26
9 Grove Street
Dartmouth, Nova Scotia
B3A 3C5
Canada

FOB Destination, including all delivery charges and customs duties and Applicable Taxes.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Alex Russell
Title: Supply Specialist

Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row, Halifax, NS B3J 3C9

Telephone: 902-401-8180
Facsimile: 902-496-5016
E-mail address: alex.russell@pwgsc.gc.ca

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

6.5.2 Project Authority - TBD

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 Procurement Authority - TBD

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. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract 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 Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.4 Contractor's Representative (to be completed by bidder)

Name: _____

Title: _____
Organization: _____
Address: _____

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 \$ insert amount at contract award. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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 Single Payment

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

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

6.6.3 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 two (2) copies must be forwarded to the following address for certification and payment:

Defence Research and Development Canada – Atlantic Research Centre
9 Grove St
P.O. Box 1012
Dartmouth, Nova Scotia
B2Y 3Z7
Canada

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 Nova Scotia.

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](#) (2018-06-21) Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert date of bid*).

6.11 Defence Contract

SACC Manual clause [A9006C](#) (2012-07-16) Defence Contract

6.12 Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

ANNEX A

STATEMENT OF REQUIREMENT

1. TITLE

Automated Weather Station

2. BACKGROUND

Defence Research and Development Canada (DRDC) has a requirement for an automated weather station (AWS) that can operate continuously under harsh environments in the Arctic.

An embedded processing unit (EPU) will be used to communicate and operate an underwater array that will be suspended below a surface buoy that is 60" in diameter and will be powered by an on-board 12 volt valve-regulated lead-acid (VRLA) battery bank. This buoy will require a weather monitoring system capable of collecting wind speed and direction, relative humidity, air temperature and barometric pressure. It must also contain a GPS for location tracking and an electric compass for accuracy of wind direction as the weather station rotates. The weather station must be able to communicate with the EPU for changing settings or collecting weather data using a USB, serial port or radio frequency (RF) telemetry, such as cellular, Wi-Fi or Bluetooth.

3. ACRONYMS

ASCII	American Standard Code for Information Interchange
AWS	Automated Weather Station
°C	Celsius
DAMS	Drifting Arctic Monitoring System
DRDC	Defence Research and Development Canada
EPU	Embedded Processing Unit
GPS	Global Positioning System
hPa	Hectopascal
MHz	Megahertz
mW	Milliwatt
m/s	Meter per second
NMEA	National Marine Electronics Association
SDI-12	Serial Digital Interface at 1200 baud
SOR	Statement of Requirement
TA	Technical Authority
VDC	Volts – Direct Current
VRLA	Valve-Regulated Lead-Acid

4. APPLICABLE DOCUMENTS & REFERENCES

None

5. REQUIREMENTS

Quantity: 4

5.1. Automated Weather Station

The Contractor must provide automated weather stations that are capable of meeting the following specifications

Item	Specifications	Value
1	Power Consumption	Maximum 5 watts during normal operation at 12 VDC
2	Wind Speed	Range from 0-70 m/s with 0.01 m/s resolution
3	Wind Direction	Range from 0-360 degrees with a 0.1 degree resolution
4	Relative Humidity	Range from 0-100% with a 0.1% resolution
5	Air Temperature	Range from -40°C to +60°C with a 0.1°C resolution
6	Barometric Pressure	Range from 500-1100 hPa with a 0.1 hPa resolution
7	Electric Compass	Range from 0-360 degrees with a 0.1 degree resolution
8	GPS	Measured in decimal degrees with a 0.001 degree accuracy
9	Inputs	Analog and digital ports for potential expansion (adding extra sensors)
10	Interface	Send/receive data via USB and/or serial port (RS-232, RS485/422)
11	File Formats	National Marine Electronics Association (NMEA), Serial Digital Interface at 1200 baud (SDI-12), American Standard Code for Information Interchange (ASCII).
12	Baud Rates	1200, 4800, 9600, 19200 and 38400 (16550 UART standard)
13	Temperature	Operating range from a minimum of -40°C to at least 60°C
14	No. of Readings	Unit must be able to collect sensor readings every minute, with the potential for the user to change the reading frequency manually (1 second up to 5 minutes)
15	Datalogger	A low-powered (500 mW and below) datalogger, with software, designed to measure sensors, analyze and store data and programs. Must be able to operate in Canadian/US radio frequency band (902 to 928 MHz).

5.2. Accessories

The Contractor must provide the following accessories for Requirement 5.1

Item	Description	Required Quantity
1	Sensor tower mount with hardware	4
2	Cabling for sensor integration with system	4
3	Enclosure for sensors	4
4	Rechargeable battery (12 volts) with connector and in-line fuse	4

5.3. Software

The Contractor must provide the following software for Requirement 5.1: One software installation disc, emailed file, and/or USB drive for all units or one license for each unit (if applicable) and updated software when required.

5.4. Support

Following the delivery and receipt of Deliverables 6.1, 6.2 and 6.3, the Contractor must provide software, hardware and installation support via email, phone and website, for a total of 40 hours. The Contractor's support must be available from 08:00 to 17:00 Atlantic Standard Time, Monday to Friday. The Contractor must provide a response time of 4 hours or less, following initial contact from DRDC.

6. DELIVERABLES

Number	Requirement Reference	Description of the Deliverables	Quantity
6.1	5.1	Automated weather station with operation and technical manuals	4
6.2	5.2	Accessories	4 of each accessory
6.3	5.3	Software Package	1 for each accessory
6.4	5.4	Support	N/A

7. LANGUAGE OF WORK

Software, manuals and all related paperwork must be written in English.

8. DELIVERY LOCATION

Defence Research and Development Canada – Atlantic Research Centre
Building DA-26
9 Grove Street
Dartmouth, Nova Scotia
B3A 3C5

Canada

9. TRAVEL

The Contractor is not required to travel.

10. MEETINGS

Not required.

11. GOVERNMENT SUPPLIES MATERIAL (GSM)

None.

12. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None.

13. SPECIAL CONDITIONS

13.1. Operation and Technical Manuals

The Contractor must provide a hard copy and electronic copy of the operation and technical manuals with each Automated Weather Station and accessory. All electronic copies of the operation and technical manuals must be in Adobe PDF format and delivered on a CD, DVD or USB removable storage drive.

13.2. Software

The Contractor must provide a software package with the delivery of each item as described in requirement 5.2. The software must be delivered as existing commercial off-the-shelf software. Software updates must be delivered on a CD, DVD, USB removable storage drive or sent through email with a .zip or .exe file extension format.

ANNEX B

BASIS OF PAYMENT

Item		Quantity	Price per unit	Total Price
AUTOMATED WEATHER STATION AS PER ANNEX A 5.1		4	\$ _____	\$ _____
Accessories as per Annex A 5.2				
	Sensor tower mount with hardware	4	\$ _____	\$ _____
	Cabling for sensor integration with system	4	\$ _____	\$ _____
	Enclosure for sensors	4	\$ _____	\$ _____
	Rechargeable battery (12 volts) with connector and in-line fuse	4	\$ _____	\$ _____
Delivery for all items in Annex A 5.1 and 5.2				\$ _____
Support Requirement as per Annex 5.4		LOT		\$ _____
Total price for all items including delivery HST excluded				\$ _____

ANNEX "C" 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)

ANNEX D

BID SUBMISSION GUIDE

Bidders are required to provide details that demonstrate all of the following criteria is met by their proposed equipment.

Item	Specifications	Value	Cross Reference to Specific Page # in proposal
1	Power Consumption	Maximum 5 watts during normal operation at 12 VDC	
2	Wind Speed	Range from 0-70 m/s with 0.01 m/s resolution	
3	Wind Direction	Range from 0-360 degrees with a 0.1 degree resolution	
4	Relative Humidity	Range from 0-100% with a 0.1% resolution	
5	Air Temperature	Range from -40°C to +60°C with a 0.1°C resolution	
6	Barometric Pressure	Range from 500-1100 hPa with a 0.1 hPa resolution	
7	Electric Compass	Range from 0-360 degrees with a 0.1 degree resolution	
8	GPS	Measured in decimal degrees with a 0.001 degree accuracy	
9	Inputs	Analog and digital ports for potential expansion (adding extra sensors)	
10	Interface	Send/receive data via USB and/or serial port (RS-232, RS485/422)	
11	File Formats	National Marine Electronics Association (NMEA), Serial Digital Interface at 1200 baud (SDI-12), American Standard Code for Information Interchange (ASCII).	
12	Baud Rates	1200, 4800, 9600, 19200 and 38400 (16550 UART standard)	
13	Temperature	Operating range from a minimum of -40°C to at least 60°C	
14	No. of Readings	Unit must be able to collect sensor readings every minute, with the potential for the user to change the reading frequency manually (1 second up to 5 minutes)	
15	Datalogger	A low-powered (500 mW and below) datalogger, with software, designed to measure sensors, analyze and store data and programs. Must be able to operate in Canadian/US radio frequency band (902 to 928 MHz).	