



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Travaux publics et Services gouvernementaux  
Canada

Voir dans le document/  
See herein

NA

Québec

NA

**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> Équip. surveillance énergie électr. Équipements de surveillance de l'énergie électrique pour les secondaires de tran	
<b>Solicitation No. - N° de l'invitation</b> 23332-210718/A	<b>Date</b> 2021-02-04
<b>Client Reference No. - N° de référence du client</b> 23332-210718	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTA-170-16056	
<b>File No. - N° de dossier</b> MTA-0-43255 (170)	<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> Eastern Standard Time EST <b>on - le 2021-02-22</b> Heure Normale du l'Est HNE	
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Cimpan, Cristina	<b>Buyer Id - Id de l'acheteur</b> mta170
<b>Telephone No. - N° de téléphone</b> (514) 604-3855 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> CAMNET, centre de la technologie de l'énergie 1615 BOUL.LIONEL BOULET BP 4800 VARENNES Québec J3X1S6 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> Voir doc.	<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>

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement applicable to this document.

### **1.2 Requirement**

The requirement is detailed under Annex "A" - Requirement.

### **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 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](#) (2020-05-28) 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 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:

#### **PWGSC Québec Region Bid Receiving Unit**

**Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address:**

[TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca)

Note: **Bids will not be accepted if emailed directly to this email address.** This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

For more information on the use of Postel, please see the following link:

<https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>

**Bids transmitted by facsimile or hardcopy to PWGSC will not be accepted.**

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than five (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 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.

## 2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
  - Office of the Procurement Ombudsman (OPO)
  - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

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

### **3.1 Bid Preparation Instructions**

**The Bidder must submit its bid electronically** in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

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

Section I: Technical Bid

Section II: Financial Bid

Section III: Certifications

Bids transmitted by facsimile or hardcopy will not be accepted.

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

#### **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 “D” 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

##### **3.1.3 SACC Manual Clauses**

#### **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**

The technical evaluation will be based on the mandatory technical criteria detailed in Annex C.

Bidders must demonstrate that the goods and/or services offered are compliant with each of these mandatory technical criteria with documents and/or technical drawings, which must be submitted with their proposal.

Bidders should complete the grid in Annex C in order to indicate where the technical criteria are demonstrated within their submitted documents and/or technical drawings and include it with their proposal.

#### **4.1.2 Financial Evaluation**

According to the Total Price (1+2+3+4+5+6+7) indicated in Annex B - Basis of Payment.

1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
3. Bidders must provide prices Delivered Duty Paid (DDP) Varenne, Québec, Canada Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on a DDP basis.

### **4.2 Basis of Selection**

#### **4.2.1 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.

#### **5.1.2 Additional Certifications Required with the Bid**

### **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** *(see Annex E)*

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property 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.

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### **5.2.3 Additional Certifications Precedent to Contract Award**

#### **5.2.3.1 Certification - Original equipment manufacturer**

Any bidder that is not the original equipment manufacturer (OEM) for every item proposed as part of its bid is required to submit a certificate signed by the OEM (not the bidder) certifying the bidder's authority to provide and maintain the OEM's items. No contracts will be awarded to a bidder that is not the original equipment manufacturer of the items proposed to Canada unless the manufacturer certification has been provided to Canada.

## 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 the items detailed under the "Requirement" at Annex "A".

#### 6.2.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at annex A of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within 14 days after contract award by sending a written notice to the Contractor.

### 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](#) (2020-05-28), 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 the date of Contract to \_\_\_\_\_ inclusive (*the date will be filled at the contract award*).

#### 6.4.2 Delivery Date

All the deliverables must be received on or before \_\_\_\_\_ (*the date will be filled at the contract award*).

#### 6.4.3 Delivery Points

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

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## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Cristina Cimpan  
Title: Acting Procurement Agent  
Public Works and Government Services Canada  
Acquisitions Branch Directorate Supply  
Telephone: 514-604-3855  
E-mail address: [cristina.cimpan@tpsgc-pwgsc.gc.ca](mailto:cristina.cimpan@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.

### 6.5.2 Project Authority *(to be completed by Canada at contract award)*

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 filled by the bidder)*

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

## 6.6 Payment

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

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex B for a cost of \$ \_\_\_\_\_ *(will be indicated at the contract award)*. 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 Single Payment

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

## 6.6.3 SACC Manual Clauses

[C2000C](#) (2007-11-30), Taxes - Foreign-based Contractor

## 6.6.4 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).

## 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 has been 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.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 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 *(to be filled by the bidder)*

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 CANADIAN province or territory)*.

## 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](#) (2020-05-28), General Conditions - Goods (Medium Complexity);

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- (c) Annex A, Requirement;
- (d) Annex B, Basis of payment;
- (e) 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  
B1501C (2018-06-21), Electrical equipment  
B7500C (2006-06-16), Excess Goods  
G1005C (2016-01-28), Insurance - No Specific Requirement

#### **6.12 Dispute Resolution**

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".

## **ANNEX "A"**

### **REQUIREMENT**

#### **Electric Power Monitoring Equipment for Transformer Secondaries**

##### **1. DESCRIPTION:**

In the course of the Varennes Interactive Grid (VARIG) R&D project, the CanmetENERGY Research Centre in Varennes requires procuring electric power monitoring equipment for transformer secondaries. These sensors will be deployed at the secondary sides of different distribution transformers including pole-mounted types to monitor electrical quantities at regular intervals.

To effectively monitor the status of a distribution grid and test demand response (DR) events, 10 individual sensors rated for transformer secondaries will be required. Each unit must be capable of operating independently, log its historical measurements in an internal memory, and regularly transmit and display the logged data remotely.

##### **2. QUANTITY:**

- 2.1** 6 individual sensors with an option of 3 additional units to be deployed at different **single-phase** transformer secondaries of a distribution grid.
- 2.2** 4 individual sensors with an option of 3 additional units to be deployed at different **three-phase** transformer secondaries of a distribution grid.

##### **3. MANDATORY REQUIREMENTS:**

The contractor must provide electrical energy monitoring equipment for transformer secondaries that at least meet the mandatory minimum specifications indicated below.

##### **3.1 General Characteristics:**

- 3.1.1** Off-the-shelf design (i.e. except minor variations, demonstration must be made that the equipment is already designed and used by other commercial clients).
- 3.1.2** Language of the interface and documentation: in either of the Canadian official languages (English or French).
- 3.1.3** Must be self-powered and not be dependent on an auxiliary power source.
- 3.1.4** Must operate and measure at 60 Hz nominal frequency.
- 3.1.5** Must be compatible with pole-mounted transformers.
- 3.1.6** Must be of the clamp-on type for easy installation.
- 3.1.7** Current transformer (CT) opening  $\geq 1.25$  inches.
- 3.1.8** Operating temperature range:
  - 3.1.8.1** Minimum  $\leq -30^{\circ}\text{C}$
  - 3.1.8.2** Maximum  $\geq +40^{\circ}\text{C}$
- 3.1.9** Sensor must be designed for outdoor use.

### **3.2 Measurement:**

The electrical energy monitoring equipment for transformer secondaries must:

- 3.2.1 Measure RMS electrical quantities.
- 3.2.2 Measure the following electrical quantities:
  - 3.2.2.1 Line voltage (V)
  - 3.2.2.2 Line current (A)
  - 3.2.2.3 Active/reactive/apparent power (W, VAR, VA)
  - 3.2.2.4 Power factor
- 3.2.3 Measure the line-line voltage in the range (single-phase units only):
  - 3.2.3.1 Minimum  $\leq 100$  V
  - 3.2.3.2 Maximum  $\geq 240$  V
- 3.2.4 Measure the line-line voltage in the range (three-phase units only):
  - 3.2.4.1 Minimum  $\leq 200$  V
  - 3.2.4.2 Maximum  $\geq 600$  V
- 3.2.5 Be rated for line current of at least 500 A.
- 3.2.6 Have the measurement errors:
  - 3.2.6.1 Line voltage  $\leq 1.0\%$
  - 3.2.6.2 Line current  $\leq 1.0\%$
- 3.2.7 Store measured and logged data for:
  - 3.2.7.1 At least 24 hours
  - 3.2.7.2 At least 96 samples
- 3.2.8 Include timestamped data logging that is time-synchronized.
- 3.2.9 Include harmonic measurements.

### **3.3 Communication:**

The electrical energy monitoring equipment for transformer secondaries must have:

- 3.3.1 Capability of cellular data communication.
- 3.3.2 Capability of retrieving measurement data remotely.

### **4. Support and Documentation:**

- 4.1 The contractor must provide technical support by phone or by email for at least one year. The contractor must respond within 24 working hours, considering operating hours from 9 a.m. to 4 p.m. Monday to Friday. The language used must be French or English.
- 4.2 The contractor must provide user manuals and documentation for the user interface. Documents must be provided in English or French, in paper or electronic format.
- 4.3 The software provided by the contractor (if any) must be compatible with Windows 7 operating system and above.

### **5. Delivery Address:**

1615 Lionel-Boulet Boulevard  
Varenes, QC, J3X 1P7

**ANNEX "B"**

**BASIS OF PAYMENT**

Prices have to be provided for all items including « optional goods ».

Article #	Description	Quantity (Q)	Unit Price* (U)	Total Price* (Q x U)
1	Individual sensors to be deployed at different single-phase transformer secondaries of a distribution grid. (see Annex A)	6	----- \$	----- \$
2	Individual sensors to be deployed at different three-phase transformer secondaries of a distribution grid. (see Annex A)	4	----- \$	----- \$
3	Technical support for at least one year. (see article 4 of annex A)	1	----- \$	----- \$
4	Technical documentation (see article 4 of annex A).	1	----- \$	----- \$
5	All packaging, transport and delivery costs.	1	----- \$	----- \$
<b>Sub-total (1+2+3+4+5)</b>				----- \$

**Optional goods:**

Packaging, transport and delivery costs for all optional goods must be included in the unit price.

Article #	Description	Estimated quantity (Q)	Unit Price* (U)	Total Price* (Q x U)
6	Individual sensors to be deployed at different single-phase transformer secondaries of a distribution grid. (see Annex A)	3	----- \$	----- \$
7	Individual sensors to be deployed at different three-phase transformer secondaries of a distribution grid. (see Annex A)	3	----- \$	----- \$

**TOTAL PRICE (1+2+3+4+5+6+7) : \_\_\_\_\_ \$**

\*If the currency is other than \$CAD, please indicate: \_\_\_\_\_

\*Customs duties included.

\*Applicable taxes excluded.

## ANNEX "C"

### MANDATORY TECHNICAL CRITERIA

The answer 'yes' or 'compliant' for a criterion does not represent a demonstration. The tenderer must demonstrate each of these mandatory technical criteria using documents and / or brochures and / or technical drawings and / or data sheets, which must be submitted with his proposal. Failure to do so could render the bid non-responsive. The technical evaluation of the proposal will be based only on the documentation provided with a bidder's bid.

Item #	Mandatory technical criteria to be demonstrated (see Annex A)	Reference: Please indicate where these technical criteria are demonstrated in your technical bid (page, section).
3.1.1	Off-the-shelf design (i.e. except minor variations, demonstration must be made that the equipment is already designed and used by other commercial clients).	
3.1.3	Sensor must be self-powered and not be dependent on an auxiliary power source.	
3.1.4	Sensor must operate and measure at 60 Hz nominal frequency.	
3.1.6	Sensor must be of the clamp-on type for easy installation.	
3.1.8	Operating temperature range:	
	3.1.8.1 Minimum $\leq -30^{\circ}\text{C}$	
	3.1.8.2 Maximum $\geq 40^{\circ}\text{C}$	
3.1.9	Sensor must be designed for outdoor use.	
3.2.1	Measure RMS electrical quantities.	
3.2.2	Measure the following electrical quantities:	
	3.2.2.1 Line voltage (V)	
	3.2.2.2 Line current (A)	
	3.2.2.3 Active/reactive/apparent power (W, VAR, VA)	
	3.2.2.4 Power factor	

	Measure the line-line voltage in the range <b>(single-phase units only):</b>	
<b>3.2.3</b>	3.2.3.1 Minimum $\leq$ 100 V	
	3.2.3.2 Maximum $\geq$ 240 V	
	Measure the line-line voltage in the range <b>(three-phase units only):</b>	
<b>3.2.4</b>	3.2.4.1 Minimum $\leq$ 200 V	
	3.2.4.2 Maximum $\geq$ 600 V	
<b>3.2.5</b>	Be rated for line current of at least 500 A.	
	Have the measurement errors:	
<b>3.2.6</b>	3.2.6.1 Line voltage $\leq$ 1.0%	
	3.2.6.2 Line current $\leq$ 1.0%	
	Store measured and logged data for:	
<b>3.2.7</b>	3.2.7.1 At least 24 hours	
	3.2.7.2 At least 96 samples	
<b>3.2.8</b>	Include timestamped data logging that is time-synchronized.	
<b>3.2.9</b>	Include harmonic measurements.	
<b>3.3.1</b>	Capability of cellular data communication.	
<b>3.3.2</b>	Capability of retrieving measurement data remotely.	

Solicitation No. - N° de l'invitation  
23332-210718/A  
Client Ref. No. - N° de réf. du client  
23332-210718

Amd. No. - N° de la modif.  
File No. - N° du dossier  
MTA-0-43255

Buyer ID - Id de l'acheteur  
MTA170  
CCC No./N° CCC - FMS No./N° VME

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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).

