



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Travaux publics et Services gouvernementaux
Canada

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

7^e étage, suite 7300

Montréal

Québec

H5A 1L6

FAX pour soumissions: (514) 496-3822

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet Uninterruptible power supply unit	
Solicitation No. - N° de l'invitation 21301-206874/A	Date 2020-02-28
Client Reference No. - N° de référence du client 21301-206874	
GETS Reference No. - N° de référence de SEAG PW-\$MTA-490-15676	
File No. - N° de dossier MTA-9-42281 (490)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-04-14	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Sirois, Richard	Buyer Id - Id de l'acheteur mta490
Telephone No. - N° de téléphone (514) 718-5993 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: SERVICE CORRECTIONNEL DU CANADA ETABLISSEMENT DONNACONA 1537 ROUTE 138 DONNACONA Québec G3M 1C9 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

7^e étage, suite 7300

Montréal

Québec

H5A 1L6

Delivery Required - Livraison exigée Voir doc.	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

TABLE OF CONTENTS

TABLE OF CONTENTS	1
PART 1 - GENERAL INFORMATION	2
1.1 SECURITY REQUIREMENTS	2
1.2 REQUIREMENT	2
1.3 DEBRIEFINGS	2
1.4 EPOST CONNECT SERVICE	2
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	3
2.2 SUBMISSION OF BIDS.....	3
2.3 ENQUIRIES - BID SOLICITATION.....	4
2.4 APPLICABLE LAWS.....	4
PART 3 - BID PREPARATION INSTRUCTIONS	5
3.1 BID PREPARATION INSTRUCTIONS	5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	7
4.1 EVALUATION PROCEDURES.....	7
4.2 BASIS OF SELECTION.....	8
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	9
5.1 CERTIFICATIONS REQUIRED WITH THE BID	9
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	9
PART 6 - RESULTING CONTRACT CLAUSES	11
6.1 SECURITY REQUIREMENTS	11
6.2 REQUIREMENT	11
6.3 STANDARD CLAUSES AND CONDITIONS.....	11
6.4 TERM OF CONTRACT	12
6.5 AUTHORITIES	12
6.6 PAYMENT	13
6.7 INVOICING INSTRUCTIONS	13
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	14
6.9 APPLICABLE LAWS.....	14
6.10 PRIORITY OF DOCUMENTS	14
6.11 <i>SACC MANUAL</i> CLAUSES	14
ANNEX "A" REQUIREMENT	15
ANNEX "B" BASIS OF PAYMENT	22
ANNEX "C" MANDATORY TECHNICAL CRITERIA	23
ANNEX "D" ELECTRONIC PAYMENT INSTRUMENTS	25
ANNEX "E" COMPLETE LIST OF COMPANY BOARD OF DIRECTORS	26

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

This request for proposal (RFP) does not contain any security requirements.

1.2 Requirement

UNINTERRUPTIBLE POWER SUPPLY UNIT (UPS): (See detail in annex "A")

One (1) unit of **10 kW, eLITE series, model ELE-VVX-10kW-1S10 or equivalent**, 347V input, 347/120 single-phase output, including 90 min of batteries and supervision & diagnosis display.

1.2.1 Equivalent Products (The Bidder must complete Annex "C" if it offers an equivalent product.)

1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
 - a. designates the brand name, model and/or part number of the substitute product;
 - b. states that the substitute product is fully interchangeable with the item specified;
 - c. provides complete specifications and descriptive literature for each substitute product;
 - d. provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
 - e. clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
2. Products offered as equivalent in form, fit, function and quality will not be considered if:
 - a. the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
 - b. the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
3. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

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](#) (2019-03-04), 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

2.1.2 Best Delivery Date – Bid (To be completed by the bidder)

While delivery is requested as soon as possible, the best delivery that could be offered by the bidder is _____ .

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:

Bidders must send their bid to the following location:

By mail or in person, at the following address:

Public Services and Procurement Canada
Acquisitions Directorate - Quebec Region
800, rue de la Gauchetière Ouest, Portal South-west, Suite 7300
Montréal, Quebec H5A 1L6

By Epost, (This email address is to initiate an epost Connect conversation only)

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.

By facsimile: (514) 496-3822

Solicitation No. - N° de l'invitation
21301-206874/A
Client Ref. No. - N° de réf. du client
21301-20-6874

Amd. No. - N° de la modif.
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MTA-9-42281

Buyer ID - Id de l'acheteur
MTA490
CCC No./N° CCC - FMS No./N° VME

2.3 Enquiries - Bid Solicitation

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

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

2.4 Applicable Laws

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

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. 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

- 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 (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard 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.

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

Canada requests that bidders follow the format instructions described below in the preparation of 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). 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 equivalent product only

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 (Only for bidders who offer an equivalent product)

4.1.1.1 Mandatory Technical Criteria (Mandatory for bidders who offer an equivalent product)

Every proposal must meet all technical criteria described in Annex C. Technical evaluation will be based on the mandatory technical criteria to be demonstrated detailed in a grid at Annex C.

Bidders must complete the Annex C and include it with their proposal. It is mandatory to provide technical/ descriptive documents and/or technical literature/notes, at the submission of your bid to allow the technical evaluation (**No internet link will be accepted**). Failure to comply will render your bid non-responsive.

Only the information included in the technical bid will be taken into consideration in the evaluation of the mandatory technical criteria to be demonstrated.

The Project Authority will review each batch of documents submitted **within 10 days of receiving the documents at his office.**

4.1.2 Financial Evaluation

Based on the total prices of items 1-2-3-4-5 listed in Annex "B"

4.1.2.1 Evaluation of Price - Canadian/Foreign Bidder

1. Bidders must submit firm prices, customs duties, excise taxes 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 at Place (DAP) Laval, Quebec (See Annex "A") according to Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on an DAP basis.

Solicitation No. - N° de l'invitation
21301-206874/A
Client Ref. No. - N° de réf. du client
21301-20-6874

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-9-42281

Buyer ID - Id de l'acheteur
MTA490
CCC No./N° CCC - FMS No./N° VME

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

A bid must comply with the requirements of the bid solicitation to be declared responsive.

The responsive bid with the lowest evaluated price will be recommended for award of a contract.

For equivalent products only (Annex “C” must be completed by the bidder)

A bid must meet all mandatory technical evaluation criteria to be declared responsive.

For bidders offering the following product:

One (1) 10kW eLITE series unit from Controlled Power, model ELE-VVX-10kW-1S10, Annex “C” **does not** to be completed

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 (See Annex “E”, to be completed by the bidder)

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.

Solicitation No. - N° de l'invitation
21301-206874/A
Client Ref. No. - N° de réf. du client
21301-20-6874

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-9-42281

Buyer ID - Id de l'acheteur
MTA490
CCC No./N° CCC - FMS No./N° VME

5.2.3 OEM certification

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".

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

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

6.3.1.1 Warranty – Modification – General Conditions 2010A

Section 09 entitled *Warranty of general conditions 2010A* is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

6.3.1.2 Warranty Period

Section 09 of general conditions 2010A is amended by replacing the period of 12 months by 24 months.

All other provisions of the warranty section remain in effect.

Solicitation No. - N° de l'invitation
21301-206874/A
Client Ref. No. - N° de réf. du client
21301-20-6874

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-9-42281

Buyer ID - Id de l'acheteur
MTA490
CCC No./N° CCC - FMS No./N° VME

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to _____ inclusive (will be indicated when the contract is awarded)

6.4.2 Delivery Date

All the deliverables must be received on or before _____ (will be indicated when the contract is awarded).

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: Richard Sirois
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch

Telephone: (514) 718-5993
E-mail address: richard.sirois@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 (Will be indicated when the contact is awarded)

The Project Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

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

6.5.3 Contractor's Representative (to be completed by the 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 a firm price, as specified in Annex “B” Basis of payment for a cost of \$_____ (Will be indicated when the contract is awarded). Customs duties are excluded 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 Multiple Payments

SACC Manual clauses [H1001C](#) (2008-05-12), Multiple Payments

6.6.3 SACC Manual Clauses

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

6.6.4 Electronic Payment of Invoices – Contract (Will be indicated when the contract is awarded)

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);

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.

6.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms 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 _____ (to be completed by the bidder. Insert the name of the province or territory in CANADA).

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), General Conditions - Goods (Medium Complexity);
- (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

[A2000C](#) (2006-06-16), Foreign Nationals (Canadian Contractor);

[A2001C](#) (2006-06-16), Foreign Nationals (Foreign Contractor);

[A9068C](#) (2010-01-11), Government Site Regulations;

[B1501C](#) (2018-06-21), Electrical equipment;

[D0018C](#) (2007-11-30), Delivery and Unloading;

[G1005C](#) (2016-01-28), Insurance – No Specific Requirement.

ANNEX "A" REQUIREMENT

1. GENERAL

1.1 SUMMARY WORK DESCRIPTION

Supply, delivery and commissioning of one (1) uninterruptible power supply unit (UPS) for replacing the existing unit in the mechanical room number 6 of the main building of the Donnacona correctional facility.

1.2 CONSTRAINTS

1.2.1 Site limitations. L'UPS unit and all the components described in this document shall fit and being installed as per the manufacturer's recommendations in the available space. The available designated space for the UPS unit is 2040 mm high, 762 mm deep and 2540 mm wide.

1.3 QUALIFICATIONS

An authorised representative, or a service provider certified by the manufacturer, must be located within a maximum radius of 100 km from the Donnacona correctional facility in order to minimize the response time in the event of a breakdown or failure of one or more systems.

1.4 WORKSHOP AND DRAWINGS

1.4.1 "Shop Drawings" refers to the drawings, diagrams, illustrations, tables, performance or performance charts, pamphlets and other documentation that the Contractor must provide to show in detail part of the work.

1.4.2 The shop drawings shall indicate the materials to be used and the methods of construction, attachment or anchorage to be used, and they shall contain the mounting diagrams, the details of the connections, the relevant explanatory notes and any other information necessary for the installation of the UPS.

1.4.3 Make the changes to shop drawings as requested by the Departmental Representative in accordance with the requirements of the Contract Documents. When resubmitting drawings, notify the Departmental Representative in writing of changes that have been made in addition to those required.

1.4.4 Submit one (1) electronic copy (PDF) of the shop drawings specified in the Technical Specifications sections and as reasonably requested by the Departmental Representative.

1.5 DOCUMENTS/ ELEMENTS TO BE DELIVERED

- 1.5.1 Provide the user manual as well as the operation and maintenance manuals in ring binder format (3 copies each). Bilingual when available.
- 1.5.2 The Operation and Maintenance Manual must include :
- a. The operating and maintenance instructions for the various modules, the construction characteristics, the function of each component and the requirements to be met for effective maintenance and repair work.
 - b. The technical sheets:
 - i. The approved shop drawings.
 - ii. The characteristics curves of circuit breakers and other automatic protection devices.
 - iii. The calculation data of the system.
 - iv. The technical description of the constituent elements.
 - v. Parts lists, with name and address of suppliers.

1.6 GUARANTEE

- 1.6.1 The batteries must be covered by a 100% one year and a 10 year pro-rated warranty.
- 1.6.2 The manufacturer's limited warranty must include repair/replacement coverage at no charge at the installation site (parts and labour). Any service delivered under the warranty must be performed during standard business hours, between 8:00 a.m. and 4:00 p.m.

2 PRODUCTS

UNINTERRUPTIBLE POWER SUPPLY UNIT (UPS)

2.1 One (1) UNINTERRUPTIBLE POWER SUPPLY (UPS) unit of **10 kW, eLITE series, model ELE-VVX-10kW-1S10 or equivalent**, 347V input, 347/120 single-phase output, including 90 min of batteries and supervision & diagnosis display or approved equivalent as per disposed in 1.2.

2.2 Input Specifications:

- 2.2.1 Input Voltage: 347 VAC 347V single phase input, 2 wire, grounding, 60Hz.
- 2.2.2 Operating Range: +10% to -15% at full load without battery usage.
- 2.2.3 Frequency Range: 57.5 Hz to 62.5 Hz.
- 2.2.4 Power Factor: Self correcting to >0.95.
- 2.2.5 Input Harmonics: < 5% THD.

2.3 Output specification:

- 2.3.1 Single-phase power supply, Voltage: 347 & 120 VAC, 3-wire, grounding.
- 2.3.2 Nominal frequency of 60 Hz.
 - 2.3.2.1 Adjustable from 58.5 to 61.5 Hz
 - 2.3.2.2 Stability of ± 0.2 Hz of the adjusted value.
- 2.3.3 Nominal output power: 10kW at full load.
- 2.3.4 Sine Wave Voltage: Maximum 5% harmonic distortion under linear load.
- 2.3.5 Crest Factor: 3.0 : 1.
- 2.3.6 K Factor: 30 or better.
- 2.3.7 Harmonic Attenuation: Reflected load generated harmonics are attenuated 23dB at the input.
- 2.3.8 Include in the built-in electrical distribution panel:
 - 2.3.8.1 Five (5) unsupervised 1P, 15A, 120V distribution circuit breakers.
 - 2.3.8.2 Eight (8) 1P, 15A, 347V unsupervised distribution circuit breakers

2.4 Battery Specifications:

- 2.4.1 The nominal output power should be maintained at full charge for at least 90 minutes.
- 2.4.2 Battery Type: Sealed, maintenance free. High discharge rate enabling the critical load to be supplied in the event of a mains supply failure. Batteries must have a fireproof enclosure that complies with UL 94V2 "Flammability Standard"
- 2.4.3 Charger: Full wave, three stage, filtered.
- 2.4.4 Recharge Time: UL 924 : «Standard for Emergency Lighting and Power Equipment », NFPA 101 «Life Safety Code», NFPA 111 «Standard on Stored Energy Emergency and Standby Power Systems» compliant.
- 2.4.5 Projected Life: 5 years service, 14 year pro-rated.

2.5 Performance specifications

- 2.5.1 Compatibility: The system shall be compatible with electronic and electromagnetic ballasts at 347V, LED lighting systems at 347V, and some computer equipment at 120V. The compatibility of the systems with electronic ballasts (PFC) must not exceed 50% of the nominal load of the inverter's rated output.
- 2.5.2 Normal Operation: The load is supplied with regulated, isolated, conditioned utility power derived from the output constant voltage-regulating transformer. When utility AC power is present, the battery charger maintains a ripple free float charge on the batteries.
- 2.5.3 Uninterrupted Emergency Operation: Upon the failure or unacceptable deviation of the public utility AC power, energy will be supplied by the battery, converted to AC through the PWM inverter, filtered through the system's constant voltage regulating output transformer and continue to supply power to the load without interruption, loss or disturbance. When utility power is restored, the system reverts to normal operation without interruption, loss or disturbance.
- 2.5.4 Standby Emergency Operation: Upon the failure or unacceptable deviation of commercial AC power or upon a remote input "zone command on signal", the standby, normally off AC output section of the system becomes energized, providing emergency power for standby lighting fixtures which are required to illuminate only in the event of emergency. When utility power is restored or upon a remote input "zone command off signal", the system reverts to normal operation thus de-energizing the normally off AC output bus.
- 2.5.5 In the case of a public utility power outage that exceeds the battery time requirement, the output of the inverter will de-energize to protect the battery system, but automatically restart once commercial AC power returns. When the public utility power returns, recharging of the batteries commences immediately.
- 2.5.6 Manual Maintenance Bypass: The system includes a maintenance bypass switch. The service bypass is accessible via the front of the inverter enclosure through a hinged, key lockable door.
- 2.5.7 Overload Capability: >110% for ten (10) minutes.
- 2.5.8 Surge Capability: 150% of rated output without need of static bypass.
- 2.5.9 PFC Ballast Loading: up to 50% of the inverter's rated KW output.
- 2.5.10 Minimal Efficiency: 89% typical under full rated load.
- 2.5.11 Reliability
- 2.5.11.1 Mean time between failure (MTBF): 100,000 hrs
- 2.5.11.2 Mean time to repair (MTTR): 1 hr

2.6 Display Monitor and Diagnostics

2.6.1 System must include a local, front mounted, LCD display monitor panel. The displays electrical parameters, system status and alarm conditions.

2.6.2 The monitor desirably displays the following electrical parameters (criteria not to be considered for equivalency assessment):

- 2.6.2.1 Input Voltage
- 2.6.2.2 Output Voltage L1-N
- 2.6.2.3 Output Voltage L2-N
- 2.6.2.4 Output Voltage L1-L2
- 2.6.2.5 Output Current L1-N
- 2.6.2.6 Output Current L2-N
- 2.6.2.7 Output Volt-Amperes L1-N
- 2.6.2.8 Output Volt-Amperes L2-N
- 2.6.2.9 Output Volt-Amperes Total
- 2.6.2.10 Output Watts L1-N
- 2.6.2.11 Output Watts L2-N
- 2.6.2.12 Output Watts Total
- 2.6.2.13 Output Power Factor L1 – N
- 2.6.2.14 Output Power Factor L2 – N
- 2.6.2.15 Output Power Factor Total
- 2.6.2.16 Output Percent Load L1-N
- 2.6.2.17 Output Percent Load L2-N
- 2.6.2.18 Output Percent Load Total
- 2.6.2.19 Output Frequency Battery
- 2.6.2.20 Voltage Battery
- 2.6.2.21 Charge Current

2.6.3 The monitor desirably displays the following system status alarm conditions (criteria not to be considered for equivalency assessment):

- 2.6.3.1 Input Voltage High/Low
- 2.6.3.2 Output Voltage L1-N High/Low
- 2.6.3.3 Output Voltage L2-N High/Low
- 2.6.3.4 Output Volt-Amperes High - Overloaded
- 2.6.3.5 Output Volt-Amperes Low
- 2.6.3.6 Output Frequency High/Low
- 2.6.3.7 Battery Voltage High/Low
- 2.6.3.8 Battery Charger Current High
- 2.6.3.9 Battery Temperature High
- 2.6.3.10 General Alarm
- 2.6.3.11 System on Battery
- 2.6.3.12 Low Battery Warning
- 2.6.3.13 Low Battery Shutdown
- 2.6.3.14 Inverter Over Temperature Shutdown
- 2.6.3.15 DC Charger Failure / DC Open
- 2.6.3.16 Output Circuit Breaker Open
- 2.6.3.17 REPO Shutdown
- 2.6.3.18 System in Manual Bypass

2.6.4 The monitor shall display the following operational condition:

- 2.6.4.1 Percent Battery Time Remaining

2.6.5 The monitor incorporates user programmable set points for the following (criteria not to be considered for equivalency assessment):

- 2.6.5.1 Status and Alarm Conditions – User Programmable for all High/Low threshold alarm set points.
- 2.6.5.2 Off Bus Delay Time – User programmable for off bus delay timing adjustments.
- 2.6.5.3 Periodic Battery Test Duration – User programmable for periodic battery test duration.
- 2.6.5.4 Annual Battery Test Duration – User programmable for annual battery test duration.

3. COMMINSIONING

3.1 The installation of the cabinets and the installation and connection of the input and output power supply is not included, and will be the responsibility of the Correctional Service of Canada.

3.2 The Contractor on site must carry out commissioning of the system, supervision of start-up, verification, adjustment and testing of the system. The start-up services that consist of:

- 3.2.1. Inspection and validation confirming that the UPS unit is connected and installed in accordance with the manufacturer's recommendations.
- 3.2.2. UPS and battery start-up service during normal business hours from 8:00 a.m. to 4:00 p.m.
- 3.2.3. User training at the installation site.
- 3.2.4. Start-up of the monitor and diagnose system.
- 3.2.5. Validation of the Manufacturer's limited warranty for a period of two (2) years.

3.3 At one year from the commissioning and start-up of the UPS system, the contractor shall include a visit to verify the performance and maintenance of the UPS. Maintenance shall be done in accordance to the manufacturer recommendations, and a performance report shall be produced and delivered within two (2) weeks after the visit.

Solicitation No. - N° de l'invitation
 21301-206874/A
 Client Ref. No. - N° de réf. du client
 21301-20-6874

Amd. No. - N° de la modif.
 File No. - N° du dossier
 MTA-9-42281

Buyer ID - Id de l'acheteur
 MTA490
 CCC No./N° CCC - FMS No./N° VME

ANNEX "B" BASIS OF PAYMENT

Item	Description	Unit of mesure	Unit Price	Quantity	Total**
1	Uninterruptible power supply (UPS) including the two (2) year warranty. Brand _____ Model _____	Unit	_____ \$	1	_____ \$
2	Delivery to the Donnacona institution, located at 1537, route 138, Donnacona (Québec) G3M 1C9	Unit	_____ \$	1	_____ \$
3	Commissioning as per the article Erreur ! Source du renvoi introuvable. of the annex A.	Unit	_____ \$	1	_____ \$
4	User training at the installation site.	Unit	_____ \$	1	_____ \$
5	Maintenance and performance verification visit as per item 3.3 of annex A	Unit	_____ \$	1	_____ \$
Total price					

If the currency is different from CAD \$, please indicate: _____

**** Customs fees and other applicable taxes not included.**

ANNEX "C" MANDATORY TECHNICAL CRITERIA

(For bidders offering an equivalent product only)

The tendered must clearly demonstrate by submitting a technical sheet of the proposed equivalent product, that it meets each of the mandatory technical evaluation criteria mentioned below:

	Mandatory technical criteria	Specify the area in the document of the quote or the technical specs that describes the mandatory specifications needed.
DIMENSIONAL CRITERIA		
1.	The UPS unit and all the components described in this document must be able to be installed according to the manufacturer's recommendations in a maximum space of 2040 mm in height, 762 mm in depth and 2540 mm in width	
INPUT SPECIFICATIONS		
2.	Input voltage at 347V	
3.	Frequency range 60 ± 2.5 Hz	
OUTPUT SPECIFICATIONS		
4.	Dual output voltage of 120V and 347V	
5.	Adjustable frequency from 58.5 to 61.5 Hz, and stability of ± 0.2 Hz of the set value.	
6.	Built-in 120V output distribution panel.	
BATTERIES SPECIFICATIONS		
7.	90-minute battery capacity at full charge	
8.	Maintenance free batteries with a high discharge rate.	
9.	Batteries with fireproof envelope conforming to UL 94V2 "Flammability Standard" requirements	
10.	Recharge time in accordance with UL 924 standards: "Standard for Emergency Lighting and Power Equipment", NFPA 101 "Life Safety Code", NFPA 111 "Standard on Stored Energy Emergency and Standby Power Systems".	
PERFORMANCE SPECIFICATIONS		
11.	System compatible with electronic and electromagnetic ballast systems at 347V, LED lighting systems at 347V, as well as some computer devices at 120V	
12.	When AC power is supplied, the battery charger maintains a floating charge without fluctuation on the batteries.	
13.	Upon the failure or unacceptable deviation of the public utility AC power, energy will be supplied by the battery, converted to AC through the PWM inverter, filtered through the system's constant voltage regulating output transformer and continue to supply power to the load without interruption, loss or disturbance. When utility power is restored, the system reverts to normal operation without interruption, loss or disturbance.	
14.	In the case of a public utility power outage that exceeds the battery time requirement, the output of the inverter will de-energize to protect the battery system, but automatically restart once commercial AC power	

Solicitation No. - N° de l'invitation
21301-206874/A
Client Ref. No. - N° de réf. du client
21301-20-6874

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-9-42281

Buyer ID - Id de l'acheteur
MTA490
CCC No./N° CCC - FMS No./N° VME

	returns. When the public utility power returns, recharging of the batteries commences immediately.	
15.	Manual maintenance bypass	
16.	Overload capacity:> 110% for ten (10) minutes.	
DISPLAY AND DIAGNOSTIC MONITOR		
17.	The UPS unit includes a built-in screen, displaying electrical parameters, system status, and alarm conditions.	
18.	The built-in screen displays the following parameters : Entrance : V Output : V, A, VA, W, FP,% of load, Hz.	

Solicitation No. - N° de l'invitation
21301-206874/A
Client Ref. No. - N° de réf. du client
21301-20-6874

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-9-42281

Buyer ID - Id de l'acheteur
MTA490
CCC No./N° CCC - FMS No./N° VME

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);

