



**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**

**Vendor/Firm Name and Address**

Raison sociale et adresse du

fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**

TPSGC-PWGSC

601-1550, Avenue d'Estimauville

Québec

Québec

G1J 0C7

<b>Title - Sujet</b> Purchase of a transformer Purchase of a transformer	
<b>Solicitation No. - N° de l'invitation</b> W6856-22V306/A	<b>Date</b> 2021-11-22
<b>Client Reference No. - N° de référence du client</b> W6856-22-V306	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCM-034-18242	
<b>File No. - N° de dossier</b> QCM-1-44097 (034)	<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 2021-12-15</b> Heure Normale du l'Est HNE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Kirouac, Jennifer	<b>Buyer Id - Id de l'acheteur</b> qcm034
<b>Telephone No. - N° de téléphone</b> (418) 953-4110 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> MINISTERE DE LA DEFENSE NATIONALE Détachement des opérations immobilières Valcartier Edifice VC-72 COURCELETTE Québec G0A4Z0 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

This requirement does not include a security requirement.

### **1.2 Requirement**

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

### **1.3 Debriefings**

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

### **1.4 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 Best Delivery Date – Bid (To be completed by the bidder)

While delivery is requested by fifteen weeks, the best delivery time that could be offered by the bidder is \_\_\_\_\_ weeks from contract award date.

### 2.2 Submission of Bids

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

#### 2.2.1 Epost Connect

Bidders choosing to submit using epost Connect 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](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/active) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/active>), 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.

[Steps to follow for the Bid Submission to Bid Receiving Unit \(BRU\) using epost Connect](https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect) (<https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>)

### **2.2.2 Facsimile**

Facsimile number: 418-566-6168.

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

## **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority at [jennifer.kirouac@tpsgc-pwgsc.gc.ca](mailto:jennifer.kirouac@tpsgc-pwgsc.gc.ca) 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 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.

## **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)

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- (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**

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

Bids transmitted by 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

#### **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 - 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**

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) Quebec Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on an DDP basis.

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

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 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

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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 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A", Requirement

### 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>) 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 date of Contract to 12 months later, inclusively.

#### 6.4.2 Delivery Date

All the deliverables must be received within \_\_\_\_\_ ( ) weeks after contract award.  
(will be added at contract award)

#### 6.4.3 Delivery Points

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

## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Jennifer Kirouac  
Title: Procurement Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Telephone: (418)953-4110  
E-mail address: [jennifer.kirouac@tpsgc-pwgsc.gc.ca](mailto:jennifer.kirouac@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 added 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 completed by the bidder)

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

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

## 6.6 Payment

### 6.6.1 Basis of Payment – Firm Lot Prices (will be filled upon award)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices, as specified in Annex B for a cost of \$ \_\_\_\_\_. 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 Terms of Payment

H1000C (2008-05-12), Single payment

### 6.6.3 Electronic Payment of Invoices – Contract

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

- a. Direct Deposit (Domestic and International);
- b. Wire Transfer (International Only);

## 6.7 Invoicing Instructions

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.

Invoices must be distributed as follows:

- a) The invoice must be sent electronically to the client's e-mail address \_\_\_\_\_ (to be completed at contract award) while keeping in CC the contracting authority ([jennifer.kirouac@tpsgc-pwgsc.gc.ca](mailto:jennifer.kirouac@tpsgc-pwgsc.gc.ca))

## 6.8 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 Quebec.

## 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);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of payment;
- (e) the Contractor's bid dated \_\_\_\_\_ (will be added at contract award)

## 6.11 SACC Manual Clauses

A9062C (2011-05-16), Canadian Forces Site Regulations  
B7500C (2006-06-16), Excess goods  
B1501C (2018-06-21), Electrical equipment  
G1005C (2016-01-28), Insurance

## 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**

#### **PART 1 - GENERAL**

##### **Background:**

The DND wishes to obtain a 25kV to 600V medium voltage transformer with a 2 MVA capacity. The supplier must ensure provide and deliver the products in accordance with the requirements below.

#### **PART 2 - PRODUCTS**

##### **2.1 Materials**

- .1 Three phase dead front pad mounted distribution transformer: to CSA C227.4.
- .2 Insulated plug-in connectors for power distribution systems above 600 V to ANSI/IEEE Std. 386.
- .3 Oil-filled, pad mounted distribution transformer complete with separate primary and secondary cable compartments to form a complete factory assembled, self contained, steel fabricated unit for mounting on concrete pads.
- .4 The device must include, but not be limited to, the following:
  - .1 Rupter-type bushing well: the maximum height at the centre of the well must be 635 mm (25 in.) so the existing cables can be reused;
  - .2 Lightning arrestors;
  - .3 Dial thermometer with target temperature indicator;
  - .4 Magnetic oil level gauge;
  - .5 Drain valve with sampler;
  - .6 Two (2) bronze filler caps;
  - .7 Tinned copper ground connection bar in accordance with CSA C227.4;
  - .8 Grounding connectors (minimum of 5) for No. 2 conductor at 4/0 AWG;
  - .9 Data plate in accordance with CSA C2.1 or ANSI;
  - .10 Voltage tap selector located on HV side;
  - .11 Voltage taps: four (4) at 2.5% full capacity, two (2) above and two (2) below normal operating voltage;
  - .12 Device power: 2 MVA;
  - .13 Warming: 65°C;
  - .14 Efficiency in accordance with CSA standard C802.1;
  - .15 Mechanical barrier separating HV from LV;
  - .16 The 28-140 kV BIL Rupter-type bushing wells must be provided by the manufacturer and compatible with the existing connectors;
  - .17 The secondary connectors must be 8-hole NEMA type;



- .18 Lifting hooks;
- .19 Pressure relief valve;
- .20 Space for jack;
- .21 Padlock support;
- .22 Switch, 2-position selector switch, located above HV coil; and
- .23 Hasp for padlocks on doors.

## 2.2 Impedance

- .1 Transformer impedance, based on the power rating, must be between 3 and 5%, measured according to standard C.2.1.

## 2.3 Voltages

- .1 Primary voltage: 14.4-25 kV.
- .2 Secondary voltage: 347-600 V.
- .3 Configuration: YnYn0.

## 2.4 Voltage taps

- .1 Simple primary voltage transformer:
  - .1 Simple primary voltage transformer must contain four (4) voltage taps of 2.5% each: two (2) above nominal voltage at full power and two (2) below nominal voltage.
  - .2
- .2 Tap changing switch
  - .1 Changes between voltage taps must be made using a switch mounted on the front face of the transformer.

## 2.5 Primary switch

- .1 General
  - .1 The transformer must have an oil-immersed switching system, including a triple phase full load switch above the primary coil.
  - .2 The controller for the switch must be installed on the front face of the transformer and must be operable using a hooked pole.
  - .3 The internal switch mechanism must allow for quick contacts, regardless of how quickly the operator uses the switch.
  - .4 The mechanism should be made in such a way that allows open-close manoeuvres to be performed without the possibility of stopping in an intermediate position.
    - .1 Each switch must have a position indicator bearing the inscriptions ON and OFF. This indication must be direct action and reflect the exact position outside the transformer of the contacts it indicates.
  - .5 Electrical characteristics:
    - .1 Nominal voltage: 25 kV.
    - .2 BIL rating: 125 kV BIL.
    - .3 Nominal current: 200 A.
    - .4 Current to interrupt: 200 A.
    - .5 Momentary symmetrical current (10 cycles): 12.0 kA.
    - .6 Making capacity: 12.0 kA.
    - .7 Ambient temperature range: -40 °C to + 120 °C.

## 2.6 Overcurrent Protection Device

.1 General

- .1 The transformer must be protected by two (2) types of fuse: current limiting fuses and oil-immersed expulsion fuses. Current limiting fuses are located on the electrical source side, whereas oil-immersed expulsion fuses are permanently secured to the transformer tank. The oil-immersed expulsion fuse is mounted in a circuit breaker attached to the front side. The expulsion fuse is accessible by manoeuvring the circuit breaker using a hot stick.

**2.7 Quality Control**

- .1 Products, materials, devices and parts (referred to as products throughout specifications) must be new, not damaged or defective, and of best quality (compatible with specifications) for the purpose intended. If requested, provide evidence as to type, source and quality of products provided.

**2.8 References**

- .1 American National Standards Institute (ANSI)/Institute of Electrical and Electronics Engineers (IEEE)
  - .1 ANSI/IEEE 386-2016, Separable Insulated Connector Systems for Power Distribution Systems Rated 2.5 kV through 35 kV.
- .2 Canadian Standards Association (CSA International)
  - .1 CSA C2.1-06 (R2017), Single-Phase and Three-Phase Liquid-Filled Distribution Transformers.
  - .2 CSA C227.4-M1978 (R2005), Three-Phase, Dead Front, Pad-Mounted Distribution Transformers.
  - .3 CSA C802.1-13 (R2018), Minimum Efficiency Values For Liquid-Filled Distribution Transformers.

**2.9 Action and informational submittals**

- .1 Product data:
  - .1 Submit required product data and manufacturer's specifications and literature for each product. Specify product characteristics, performance criteria and limitations.
- .2 Submit shop drawings, which must include, but not be limited to, the following:
  - .1 Anchoring method and dimensioned foundation template;
  - .2 Dimensioned cable entry locations;
  - .3 Dimensioned cable termination height;
- .3 The assembly drawings must include Identified internal and external component layout.
- .4 The drawings must specify insulating liquid capacity.
- .5 Closeout submittals
  - .1 Provide operating and maintenance data for pad-mounted distribution transformers.
  - .2 Include insulating liquid maintenance data.

**2.10 Transportation, storage and handling**

- .1 Transportation, handling and unloading fees are at the expense of the contractor/supplier.
  - .1 Delivery location: Valcartier Military Base, P.O. Box 1000 Stn Forces, Building 072, Courcelette, QC, G0A 4Z0

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CCC No./N° CCC - FMS No./N° VME

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

ITEM	DESCRIPTION	FIRM LOT PRICES
1	Transformer, as described at Annex A	\$
TOTAL (CAD) (excluding applicable taxes)		\$

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## ANNEX "C"

### TECHNICAL EVALUATION - MANDATORY TECHNICAL CRITERIA

In their proposals, bidders must demonstrate they meet the following mandatory criteria. Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

Bidders must demonstrate each of these mandatory technical criteria using technical documents / brochures / sheets / drawings, which must be submitted with their proposal.

	MANDATORY TECHNICAL CRITERIA	REFERENCE
MC1	The bidder must provide a description of at least two similar projects of a value of at least \$30,000.00 in the last ten years demonstrating that the contractor or his subcontractor(s) has expertise in the design and manufacture of transformers with a capacity of at least 1 MVA or more, of equivalent or greater complexity. In its project description, the bidder must provide the following details: the value, the year of its completion, and a technical data sheet of the product delivered during this project.	

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## **ANNEX "D"**

### **ELECTRONIC PAYMENT INSTRUMENTS**

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

- ( ) Direct Deposit (Domestic and International);
- ( ) Wire Transfer (International Only);