



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions/Travaux publics et Services
gouvernementaux Canada
Building S-111, Rm C-114
101 Menin Rd. Garrison Petawawa
Petawawa
Ontario
K8H 2X3
Bid Fax: (613) 687-6656

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

Address inquiries to the Contracting Authority at
cynthia.lamorie@pwgsc-tpsgc.gc.ca

Title - Sujet Generators, Gas & Diesel	
Solicitation No. - N° de l'invitation W0107-18VP07/A	Date 2017-12-15
Client Reference No. - N° de référence du client JTFC 001	
GETS Reference No. - N° de référence de SEAG PW-\$PET-907-1471	
File No. - N° de dossier PET-7-47033 (907)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-29	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Lamorie, Cindy	Buyer Id - Id de l'acheteur pet907
Telephone No. - N° de téléphone (613) 687-6655 ()	FAX No. - N° de FAX (613) 687-6656
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: 2 Servcie Battalion Brigade Group 2 Canadian Mechanized Brigade Building H-110 Petawawa, ON K8H 2X3	

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

Public Works and Government Services Canada Supply and
Services Operation
Petawawa Procurement
Building S-111, Rm C-114
101 Menin Rd. Garrison Petawawa
Petawawa
Ontario
K8H 2X3

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

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	3
1.1 REQUIREMENT	3
1.2 DEBRIEFINGS.....	3
1.3 TRADE AGREEMENTS.....	3
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	3
2.2 SUBMISSION OF BIDS	3
2.3 ENQUIRIES - BID SOLICITATION.....	3
2.4 APPLICABLE LAWS.....	4
PART 3 - BID PREPARATION INSTRUCTIONS	4
3.1 BID PREPARATION INSTRUCTIONS	4
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	5
4.1 EVALUATION PROCEDURES	5
4.2 BASIS OF SELECTION	6
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	6
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	6
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION.....	6
PART 6 - RESULTING CONTRACT CLAUSES	7
6.1 SECURITY REQUIREMENTS	7
6.2 REQUIREMENT	7
6.3 STANDARD CLAUSES AND CONDITIONS.....	7
6.4 TERM OF CONTRACT	7
6.5 AUTHORITIES	8
6.6 PAYMENT	9
6.7 INVOICING INSTRUCTIONS	9
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION	10
6.9 APPLICABLE LAWS.....	10
6.10 PRIORITY OF DOCUMENTS	10
6.11 DEFENCE CONTRACT	10
6.12 INSURANCE REQUIREMENTS.....	10
6.13 <i>SACC MANUAL</i> CLAUSES.....	10
6.14 INSPECTION AND ACCEPTANCE.....	10
ANNEX "A"	11
REQUIREMENT	11
ANNEX "B"	15
BASIS OF PAYMENT.....	15
ANNEX "C" TO PART 3 OF THE BID SOLICITATION	17
ELECTRONIC PAYMENT INSTRUMENTS.....	17
ANNEX D	18

Solicitation No. - N° de l'invitation

W0107-18VP07

Client Ref. No. - N° de réf. du client

W0107-18VP07

Amd. No. - N° de la modif.

File No. - N° du dossier
PET-7-47033

Buyer ID - Id de l'acheteur

PET907

CCC No./N° CCC - FMS No./N° VME

ADDITIONAL CERTIFICATION INFORMATION.....18

PART 1 - GENERAL INFORMATION

1.1 Requirement

For the Department of National Defence, supply and deliver sixty-six (66) generator sets in accordance with the standards and specifications outlined in Annex A, Statement of Work to 2 Mechanized Brigade Group, Garrison Petawawa.

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

- Section I: Technical Bid (1 hard copies),
- Section II: Financial Bid (1 hard copies), and
- Section III: Certifications (1 hard 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 their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

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

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

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation Adjustment

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

It is mandatory that the items be technically compliant as per the specifications listed in Annex A, Requirement and Annex B, Basis of Payment.

4.1.2 Mandatory Financial Criteria

Any offer which fails to meet the following mandatory requirements will be deemed non-responsive and will receive no further consideration:

- a) Offers must not contain any alteration to the Pricing Basis other than the addition of the Offeror's unit prices.
- b) Pricing must be provided for all items and all pricing periods.
- c) Offers must not contain any condition or qualification placed upon the offer.
- d) Pricing must be firm in Canadian currency, excluding applicable taxes, and must not be indexed or tied to an escalation factor.

4.1.2.1 Financial Evaluation

The Extended Price will be the Bidders Firm Unit Price multiplied by the Quantity required for each line item.

The Total Evaluated price is the sum of all Extended Prices for all line items.

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, Delivered Duty Paid, Canadian customs and excise tax included.

4.2 Basis of Selection

4.2.1 Basis of Selection

A bid must comply with all 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.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

For the Department of National Defence, supply and deliver sixty-six (66) generator sets in accordance with the standards and specifications outlined in Annex A, Statement of Work to 2 Mechanized Brigade Group, Garrison Petawawa.

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from the date of the Contract plus two (2) months inclusive.

6.4.2 Delivery Date

All the deliverables must be received no later than 3pm Eastern Standard Time, 30 March 2018.

6.4.3 Delivery Points

Delivery of the requirement will be made to:

2 Service Battalion Supply
2 Canadian Mechanized Brigade Group,
Bldg H-110
Garrison Petawawa, ON
K8H 2XS

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Cindy Lamorie
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 101 Menin Rd, Bldg S-111 Garrison Petawawa, Ontario

Telephone: 613- 687- 6655
Facsimile: 613- 687- 6656
E-mail address: cynthia.lamorie@pwgsc-tpsgc.gc.ca

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

6.5.2 Technical Authority

The Technical Authority for the Contract is: **[Note to Offeror's: to be filled out at Contract award]**

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

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

The Technical 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 Technical Authority, however the Technical 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 **[Note to Offeror's: Please fill out required information]**

Name and telephone number of the person responsible for:

General Enquiries
Name: _____
Telephone No: _____
Facsimile No: _____
E-mail address: _____

Delivery follow-up

Name: _____
Telephone No: _____
Facsimile No: _____
E-mail address: _____

Procurement Business Number: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all obligations under the Contract, the Contractor will be paid firm lot prices as specified in the Contract for a cost of \$ _____. (*Note to Bidders: Canada will insert the amount at contract award*)

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

6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

6.6.3 Single Payment

SACC Manual clause [H1000C](#) (2017-08-17) Single Payment

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);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

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

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____ (Note to Bidders -If applicable, Canada will insert the name of the province or territory as specified by the Bidder in its bid.)

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions [2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ [Note to Bidders: Canada will insert information at time of Contract award]

6.11 Defence Contract

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

6.12 Insurance Requirements

SACC Manual clause [G1005C](#) (2016-01-28) Insurance

6.13 SACC Manual Clauses

SACC Manual clause [A9062C](#) (2010-01-11) Canadian Forces Site Regulations

SACC Manual clause [B7500C](#) (2006-06-16) Excess Goods

6.14 Inspection and Acceptance

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

ANNEX "A"
REQUIREMENT

EQUIPMENT TECHNICAL SPECIFICATIONS

1.1 REFERENCES

.1 Reference to technical societies, trade organisations, official standards, governmental agencies, is made in accordance with;

- .1 CSA. Canadian Standards Association:
- .2 ISO. International Standards Organization.
- .3 IEEE. Institute of Electrical and Electronic Engineers.
- .4 NFPA National Fire Protection Association.
- .5 ASTM. American Society for Testing and Materials.

- .2 Where reference is made to a specification by one of the above-mentioned or other Association, it is understood that the latest revision thereof shall apply.
- .3 Specifications by these Associations are used only to supplement this specification and shall not in any way reduce the standards established herein.

1.2 REQUIREMENTS OF REGULATORY AGENCIES

- .1 Must comply with the requirements of the current edition of the applicable "rules and regulations" as required by authorities having jurisdiction.

1.3 PRODUCT IDENTIFICATION

- .1 Products required to have CSA, CUL or other approvals must be properly marked or labelled indicating that the product has been approved.

1.4 PACKAGING AND DELIVERY

- .1 Generator set(s) transfer switch and all accessories be packaged with

2. SCOPE OF REQUIREMENT

- .1 The Generator Sets shall consist of a diesel engine prime mover for 30 Kw and 60 Kw sets, cooling system, AC alternator, starting battery(s) and charger, automatic transfer/bypass switch and instruction manual.

2.3 GENERATOR SET

- .1 The generator set must meet operating specifications, rpm, voltage, phase, wire, hertz, KW and KVA rating as specified in Annex B, Basis of Payment.
- .2 The generator set rating must be based on prime power service.
- .3 Voltage regulation must be plus or minus 0.5 percent for any constant load between no load and rated load. Random voltage variation with any steady load from no load to full load must not exceed plus or minus 0.5 percent.
- .4 Frequency regulation must be isochronous from steady state no load to steady state rated load. Random frequency variation with any steady load from no load to full load must not exceed plus or minus 0.25%.
- .5 The diesel engine-generator set must be capable of single step load pick up of 100% nameplate kW and power factor, less applicable de-rating factors, with the engine-generator set at operating temperature.
- .6 The alternator must produce a clean AC voltage waveform, with not more than 5% total harmonic distortion at full linear load, when measured from line to neutral, and with not more than 3% in any single harmonic.
- .7 The engine-generator set must be mounted on a heavy-duty steel base to maintain alignment between components.

DIESEL ENGINE (PRIME MOVER) FOR 30Kw AND 60 Kw

- .1 The engine must be a liquid-cooled four (4) stroke diesel of heavy duty design, cold start capable, of current design and in commercial use for electrical power generation. The horsepower rating of the engine at its minimum tolerance level must be sufficient to drive the alternator and all connected accessories. The engine must be rated for continuous duty, experimental models will not be considered.
- .2 The engine must have removable cylinder liners of the wet or dry type, cylinder heads must have removable valve seat inserts and guides.
- .3 The engine must be capable of operating at 10% above its rated kilowatt output for one (1) hour duration in any 12 hour consecutive period of running without overheating or suffering other detrimental defects.
- .4 An electronic governor system must provide automatic isochronous frequency regulation. The governing system dynamic capabilities must be controlled as a function of engine coolant temperature to provide fast, stable operation at varying engine operating and temperature conditions. The control system must actively control the fuel rate and excitation as appropriate to the state of the generator set. Fuel rate must be regulated as a function of starting, accelerating to start disconnect speed, accelerating to rated speed, and operating in various isochronous states.
- .5 The fuel system must be of the direct injection type and automatic engine shutdown must be independent of the engine governor; the fuel rack must be energized to run. The fuel system must have a primary water separator and secondary filtration.

-
- .6 Full flow lubrication oil filters with replaceable spin-on canister elements and dipstick oil level indicator. Provide drain valve for draining engine oil. The engine shall be capable of operating under all conditions when using engine lube oil, 15W40, MIL spec L-2104D.
 - .7 The engine shall be equipped with one or more heavy duty dry type air cleaner(s) with restriction indicator.
 - .8 The engine cooling system shall be thermostatically controlled and shall be sized to maintain engine coolant at the recommended temperature when operating the engine at full load plus 10 percent in ambient temperature of 50 degrees C. Fan assembly shall be enclosed with a suitable guard and filler cap shall be designed for pressure relief prior to removal. Radiator to be provided as Direct Skid Mounted.
 - .9 The cooling system shall be thermostatically controlled, engines supplied with inhibited ethylene glycol anti-freeze (-50 C), supplied in engine.
 - .10 All non-metallic cooling system hoses shall be of the reinforced silicon rubber type with proper end fittings to form a positive connection.
 - .11 Provide drain valves for draining engine block, and radiator coolant.
 - .12 The engine shall have a battery charging alternator, 12 volt DC starting system complete with heavy-duty battery(s) capable of minimum of three successive start attempts. Batteries to be mounted in an internal skid type battery rack or externally mounted steel frame. Battery cables are to be supplied and provide for not more than 5% voltage drop at peak load, cables are to have protective post connection covers to prevent accidental contact with live terminals.

2.4 AC GENERATOR

- .1 The AC generator must be synchronous, revolving field, drip-proof construction, single pre-lubricated sealed bearing, air cooled by a direct drive centrifugal blower fan, and directly connected to the engine with flexible drive disc. All insulation system components must meet NEMA MG1 temperature limits for Class H insulation system. Actual temperature rise measured by resistance method at full load must not exceed 105 degrees Centigrade.
- .2 The generator must be capable of delivering rated output (kVA) at rated frequency and power factor at any voltage not more than 5 percent above or below rated voltage.

2.5 WIRING

- .1 Wiring practices, grounding and material must be in accordance with the requirements of the Canadian Electrical Code, applicable local codes and standards.
- .2 All bolted connections of bus bar, lugs and cables shall be in accordance with the requirements of the Canadian Electrical Code and other applicable standards.
- .3 All bus bars and cables must be high conductivity copper.

-
- .4 Provision must be made for power cables to enter and leave from the top or bottom of the Generator Set Breaker/Transfer Switch main connection lugs.
- 2.6 OPERATION AND MAINTENANCE MANUALS
- .1 Provide one (1) manual(s) complete with installation, operation, maintenance instruction and field technician service trouble shooting guide for each Generator Sets being supplied under this contract. The complete manual set shall contain a bill of material which shall include an itemized list of all individual components, with drawing code, quantity, part numbers, description, manufacturer, supplier and all electrical schematic drawings.
- .2 Provide all the electrical schematic drawings of the power system and control system and drawings showing the installation connections for both control and power.
- .3 Provide a component location drawing which shows the relative physical location of the electrical components of the control panel such as relays, transformers, breakers, terminal strips, etc.
- .4 The description of operation of the controls must describe the entire sequence of all components, for all conditions, indicating the path the current will take during these conditions and referring to specific contacts and specific relay and timer controls.
- .5 Manuals must contain operational maintenance and parts information covering all components used.
- 2.7 SPARE PARTS
- .1 A list of recommended spare parts, tools and instruments with catalogue must be included.
- 2.8 DELIVERY
- .1 All items must be received no later than 3pm, 30 March 2018 Eastern Daylight Savings Time.

Solicitation No. - N° de l'invitation
W0107-18VP07
Client Ref. No. - N° de réf. du client
W0107-18VP07

Amd. No. - N° de la modif.
File No. - N° du dossier
PET-7-47033

Buyer ID - Id de l'acheteur
PET907
CCC No./N° CCC - FMS No./N° VME

ANNEX "B"

BASIS OF PAYMENT

PRICING:

All prices are firm, all-inclusive, lot prices in Canadian dollars, Delivered Duty Paid Garrison Petawawa, Canadian customs duties and excise taxes included, HST excluded. HST is not included in the pricing but will be added as a separate item to any invoice issued.

Item	Description	Quantity Required	Firm Unit Price
1.	DIESEL GENERATOR – 60 KW – SKID MOUNTED a) KW Output – 60 b) Voltage – at 60 HZ 120/208V, at 50 HZ 240/416V c) Phase – 3 d) Frequency – 50/60 HZ e) Standard vibration isolators; f) Radiator – unit mounted; g) Engine Circulating Heater – 120V, 150 watt; h) Industrial grade muffler; i) Transfer Switch – Manual Bypass – Open transition; j) Skid mounted; k) Quiet enclosure; and l) Internal fuel tank.	2	\$ /per unit

<p>2.</p>	<p>DIESEL GENERATOR – 30 KW – SKID MOUNTED</p> <ul style="list-style-type: none"> a) KW Output – 30 b) Voltage – at 60 HZ 120/208V, at 50 HZ 240/416V c) Phase – 3 d) Frequency – 50/60 HZ e) Radiator – unit mounted; f) Engine Circulating Heater – 120V, 150 watt; g) Industrial grade muffler; h) Transfer Switch – Manual Bypass – Open transition; i) Skid mounted; j) Quiet enclosure; and k) Internal fuel tank. 	<p>4</p>	<p>\$ / per unit</p>
<p>3.</p>	<p>2 KW Invertor Gas Generator – (pulse with modulation)</p> <ul style="list-style-type: none"> a) AC Output – 2000 W/16.7A b) DC Output – 12V 6.5A must include a 20A 125V Duplex receptacle c) Recoil Start d) Noise Level – Maximum 59db (A) @ rate loaded, 53db @ ¼ load 	<p>30</p>	<p>\$ / per unit</p>
<p>4.</p>	<p>5 KW Invertor Gas Generator</p> <ul style="list-style-type: none"> a) AC Output – 120/240 V b) Voltage – 5000 watts max (41/20A) 4500W rated (37.5/18.6A) c) Receptacles – 20A 125V GFCI Duplex (2), 30 A interlocking plug, 30A 125/250V locking plug d) DC Output – 12V 100W (8A) e) Noise Level – Maximum 78db (A) @ rate loaded. 	<p>30</p>	<p>\$ / per unit</p>

Solicitation No. - N° de l'invitation
W0107-18VP07
Client Ref. No. - N° de réf. du client
W0107-18VP07

Amd. No. - N° de la modif.
File No. - N° du dossier
PET-7-47033

Buyer ID - Id de l'acheteur
PET907
CCC No./N° CCC - FMS No./N° VME

ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

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

ANNEX D

ADDITIONAL CERTIFICATION INFORMATION

1. Board of Directors

In accordance with the [Ineligibility and Suspension Policy](#), Section 17, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name/Position - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Contractors are required to have a Procurement Business Number (PBN) before Contract award.

Procurement Business Number - _____

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.