

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**  
**11 Laurier St. / 11, rue Laurier**  
**Place du Portage, Phase III**  
**Core 0A1 / Noyau 0A1**  
**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

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

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

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

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

**Comments - Commentaires**

<b>Title - Sujet</b> Trailer Mounted Diesel Powered Grou	
<b>Solicitation No. - N° de l'invitation</b> W8485-130843/A	<b>Date</b> 2014-02-10
<b>Client Reference No. - N° de référence du client</b> W8485-130843	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HS-623-64624	
<b>File No. - N° de dossier</b> hs623.W8485-130843	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-03-24</b>	<b>Time Zone Fuseau horaire</b> Eastern Daylight Saving Time EDT
<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> Allard, Denis	<b>Buyer Id - Id de l'acheteur</b> hs623
<b>Telephone No. - N° de téléphone</b> (819) 956-4003 ( )	<b>FAX No. - N° de FAX</b> (819) 956-5227
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> <div>Specified Herein Précisé dans les présentes</div>	

**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**  
Industrial Vehicles & Machinery Products Division  
11 Laurier St./11, rue Laurier  
7B1, Place du Portage, Phase III  
Gatineau  
Québec  
K1A 0S5

<b>Delivery Required - Livraison exigée</b> See Herein	<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 (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 - GENERAL INFORMATION**

### **1. Introduction**

The bid solicitation and resulting contract document is divided into seven (7) parts plus annexes as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The attachments include the Annex A - Pricing, Annex B - Federal Contractors Program for Employment Equity - Certification and the Purchase Description and Evaluation Plan.

### **2. Summary**

The Department of National Defence has a requirement to purchase fifty (50) 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items, (including familiarization instruction/training), in accordance with the attached Purchase Description (title), Performance Specification for 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units, as described at Annex A - Pricing.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement, the North American Free Trade Agreement, the Canada-Columbia Free Trade Agreement, the Canada-Peru Free Trade Agreement, the Canada-Panama Free Trade Agreement and the Agreement on Internal Trade.

### **3. Debriefings**

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within fifteen 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

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## PART 2 - BIDDER INSTRUCTIONS

### 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 issued by Public Works and Government Services Canada (PWGSC).

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

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

**Subsection 05.4** of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

**Delete:** Bids will remain open for acceptance for a period of not less than sixty (60) days from the closing date of the bid solicitation

**Insert:** Bids will remain open for acceptance for a period of not less than ninety (90) calendar days from the closing date of the bid solicitation

### 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.

### 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

### 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.

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## 5. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications, Statement of Work or Purchase Description contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least seven (7) calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## 6. Environmental Considerations

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement, for this solicitation:

The successful bidder will be requested, after contract award, to provide all correspondence including (but not limited to) documents, reports and invoices in electronic format unless otherwise specified by the Contracting Authority or the Technical Authority, thereby reducing printed material.

Bidders should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 1. Bid Preparation Instructions

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

First page of the Request for Proposal signed by the bidder or an authorized representative of the Bidder (1 signed copy)

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Section IV: Additional Information (1 hard copy)

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>). 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.

#### 1. Substitutes and Alternatives

1. Substitutes and alternatives that are equivalent in form, fit, function, quality and performance will be considered for acceptance by the Technical Authority where the Bidder:

- (a) Clearly identifies a substitute and/or an alternative;
- (b) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
- (c) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
- (d) Provides complete specifications and brochures, where applicable;

(e) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the technical requirement description; and

(f) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.

2. Substitutes and alternatives offered as equivalent in form, fit, function quality and performance will not be considered for acceptance by the Technical Authority if:

(a) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the evaluate the equivalency; or

(b) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.

3. Bidders are encouraged to offer or suggest green products whenever possible.


## Section II: Financial Bid

Bidders must submit their bid in accordance with the Basis of Payment specified in Part 7 and at Annex A - Pricing. The total amount of applicable taxes must be shown separately.

Bidders should complete Annex A and submit it with their bid.


### 1. SACC Manual Clauses

#### 1.1 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450 , Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.

2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).

4. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450 , for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.

5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

### Section III: Certifications

#### 1. Certifications

Bidders must submit the certifications required under Part 5.

### Section IV: Additional Information

#### 1. Additional Information

Canada requests that bidders submit the following information:

##### 1.1 Delivery

###### 1.1.1 Firm Quantity

While delivery of the equipment/vehicle is requested by March 31, 2015, the best delivery that could be offered is as follows:

Item 001 – Fifty (50) 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items will be delivered within \_\_\_\_\_ weeks/calendar days from the effective date of the contract.

##### 1.2 Supplier Contacts

Name and telephone number of the person responsible for:

General

Delivery follow-up

Name: \_\_\_\_\_

Telephone No. \_\_\_\_\_

Facsimile No. \_\_\_\_\_

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

##### 1.3 After Sales Service

Canada requests that the Bidder provide the names, addresses and telephone numbers of their dealers and/or agents authorized to provide after sales service, maintenance and warranty repairs, and a full range of repair parts for the vehicle/equipment offered. The Bidder should show the distance between the delivery location and the authorized dealer and/or agent and the delivery location, which should not be more than 100 kilometres.

Distance between the delivery location and the dealer and/or agent: \_\_\_\_\_ km

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone number: \_\_\_\_\_

##### 1.4 Manufacturer's Standard Warranty Period

Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the vehicle/equipment and its component that exceeds the minimum warranty period of twenty four (24)

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months or 1000 hours of usage, whichever comes first. Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for component/sub-assemblies will form part of the proposed contract.

### **1.5 Extended Warranty Period**

Canada requests that the Bidder indicate if an extended warranty period is being offered that exceeds the minimum warranty period of twenty four (24) months or 1000 hours of usage, whichever comes first.

If yes, Canada requests that the Bidder provide details and pricing information of any extended warranty period available for the vehicle/equipment and related items.

Any extended warranty period offered will not be included in the financial evaluation.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **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.

#### **1.1. Mandatory Technical Evaluation Criteria**

##### **1.1.1 Mandatory Proof of Compliance**

Bidders must submit, with their bid, all proof of compliance required in the Purchase Description, Evaluation Plan and two (2) manuals hard copy and one (1) manual electronic copy (.pdf), in the Contractor's format submitted, for the 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items, containing enough detail to permit local repair and operation for review by the Technical Authority.

##### **1.1.2 Substitutes and/or Alternatives**

Bidders proposing substitutes and/or alternatives must provide with their bid, all the information as detailed in Part 3, Section 1 - Substitutes and Alternatives to be considered for evaluation.

#### **1.2. Mandatory Financial Evaluation Criteria**

**1.2.1.** Bidders must provide with their bid all financial information requested in the bid solicitation and at Annex A - Pricing for items 001 and 002.

**1.2.2** The prices of the bid must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for item 001 the firm quantity, 002 (familiarization instruction/training), Canadian Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

##### **1.2.3 Aggregate Evaluated Price**

Bids will be evaluated on an aggregate price basis for the firm quantity and familiarization instructions/training as follows:

- a) the firm lot prices for the firm quantity will be multiplied by their identified quantities to obtain the evaluated price of the firm quantity;
- b) the firm lot prices for the familiarization instruction/training will be multiplied by the identified estimated quantities to obtain the evaluated price of the familiarization instruction/training;
- c) the sum of all evaluated prices will determine the evaluated aggregate price.

### **2. Basis of Selection**

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

## PART 5 - CERTIFICATIONS

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

### 1. Mandatory Certifications Required Precedent to Contract Award

#### 1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

#### 1.2 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 ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website

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.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

### 2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

#### 2.1 Product Conformance

The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of the purchase description(s).

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This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

\_\_\_\_\_  
Bidder's authorized representative signature

\_\_\_\_\_  
Date

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## PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

### 1. Security Requirement

There is no security requirement associated with this bid solicitation.

### 2. Financial Capability

**SACC Reference**

A9033T

**Title**

Financial Capability

**Date**

2012-07-16

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## PART 7 - RESULTING CONTRACT CLAUSES

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

### 1. Requirement

The Contractor must deliver fifty (50) 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items, including familiarization instruction/training, in accordance with the Purchase Description (title), Performance Specification for 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and at Annex A - Pricing.

#### 1.1 Technical Changes, Substitutes and Alternatives

Any technical changes, substitutes and alternatives proposed by the Contractor must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function, quality and performance to what is being replaced and must be at no additional cost to Canada. Substitutes and alternatives that are offered as equivalent will only be acceptable once they are approved by the Technical Authority as an equivalent. A contract amendment or a completed Design Change/Deviation form will be issued.

Should the Technical Authority not accept the substitute or the alternative and the Contractor is unable to meet the technical requirement, Canada may terminate the contract for default in accordance with the general conditions stated in the contract.

### 2. 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.

#### 2.1 General Conditions

2010A (2013-04-25), General Conditions - Medium Complexity - Goods, apply to and form part of the Contract.

Section 09 entitled Warranty of General Conditions 2010A is amended as follows:

At subsection 1, delete the following: "The warranty period will be twelve (12) months" and replace with the following: "The warranty period will be twenty-four (24) months, or 1,000 hours of usage, whichever comes first".

Delete subsection 2 in its entirety and replace 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.

If action to effect repairs under warranty cannot be initiated within two (2) working days and completed within a reasonable length of time or if the Contractor has no repair facilities in the immediate vicinity (within 100 kilometres) of the specified delivery destinations (consignees), Canada reserves the right to make such repairs and be reimbursed by the Contractor at the rate of \$103.91 per hour for labour and the cost for replaced parts."

All other provisions of the warranty section remain in effect.

### 3. Term of Contract

#### 3.1 Delivery Date

Delivery of the vehicle/equipment must be made as follows:

#### Firm Quantity

Item 001 – Fifty (50) 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items must be delivered within to be inserted by PWGSC weeks/calendar days from the effective date of the contract.

### 4. Authorities

#### 4.1 Contracting Authority

The Contracting Authority for the Contract is:

Denis Allard  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
LEFTD - HS Division  
Place du Portage, Phase III, 7B1  
Gatineau, Quebec K1A 0S5  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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.

#### 4.2 Procurement Authority

The Procurement Authority for the contract is:

To be inserted by PWGSC  
DLP \_\_\_\_\_  
National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2

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Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

#### 4.3 Technical Authority

The Technical Authority for the Contract is:

To be inserted by PWGSC  
National Defence Headquarters  
Mgen. George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, Ontario K1A 0K2  
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.

#### 4.4 Contractor's Representative

##### General Enquiries

Name: To be inserted by PWGSC  
Telephone No. \_\_\_\_\_  
Facsimile No. \_\_\_\_\_  
E-mail address: \_\_\_\_\_

##### Delivery follow-up

Name: To be inserted by PWGSC  
Telephone No. \_\_\_\_\_  
Facsimile No. \_\_\_\_\_  
E-mail address: \_\_\_\_\_

#### 4.5 After Sales Service

The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs; and a full range of repair parts for the vehicle/equipment offered:

Distance between the delivery location and the dealer and/or agent: to be inserted by PWGSC km

Name:

Address:

Telephone Number:

## 5. Payment

### 5.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm price(s) specified in Annex "A" - Pricing, and as follows:

#### 5.1.1 Basis of Payment (BOP) Type 1

Firm lot prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

#### 5.1.2 Basis of Payment (BOP) Type 2

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/index.php?sid=90&hl=1&lang=eng>), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

All travel and living expenses incurred in the performance of the work outside Canada will be the Contractor's responsibility.

When requested by Canada, the Contractor must provide an estimated cost and relevant information for the travel and living.

### 5.2 SACC Manual Clauses

SACC Reference	Title	Date
C6000C	Limitation of Price	2011-05-16
H1001C	Multiple Payments	2008-05-12

### 5.3 Exchange Rate Fluctuation Adjustment

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.

2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.

3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount

will be calculated in accordance with the following formula:

$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

**FCC**

Foreign Currency Component (per unit)

**$i_0$**

Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

**$i_1$**

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

**Qty**

quantity of units

4. The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.

5. For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.

6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGSC-TPSGC 450



, Claim for Exchange Rate Adjustments.

7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450



(i.e.  $(i_1 - i_0) / i_0$ ).

8. Canada reserves the right to audit any revision to costs and prices under this clause.

## 6. Invoicing

### 6.1 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions.

2. Invoices cannot be submitted before delivery, inspection and acceptance of the vehicle/equipment/service.

3. The Applicable Taxes must be calculated on the total amount of the invoice before the holdback is applied. At the time the holdback is claimed, there will be no taxes payable as they were claimed and payable under the previous invoice for the vehicle/equipment/service.

4. Upon delivery, inspection and acceptance of all ancillary items related to such vehicle/equipment/service the Contractor can submit an invoice for the release of the holdback.

5. Each invoice must be supported by:

(a) a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;

6. The Contractor is requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Procurement Authority, thereby reducing printed material.

7. Invoices must be distributed as follows:

(a) The original must be forwarded or emailed to the Procurement Authority identified under the section entitled "Authorities" of the Contract for acceptance and payment.

(b) One (1) copy must be forwarded or emailed to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

(c) One (1) copy must be forwarded to the consignee.

## 6.2 Holdback

1. Canada will apply a ten (10) percent holdback on any due payment for the vehicle/equipment/service until delivery, inspection and acceptance of all related items related to such vehicle/equipment/service.

2. Subsequent to delivery, inspection and acceptance of all related items related to such vehicle/equipment/service the Contractor must submit an invoice for the release of the Holdback in accordance with "Invoicing Instructions" found in this contract.

## 7. Certifications

### 7.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

### 7.2 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 HRSDC-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 HRSDC will constitute the Contractor in default as per the terms of the Contract.

## 8. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

## 9. 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 2010A (2013-04-25) General Conditions - Medium Complexity - Goods;  
 (c) Annex A - Pricing;  
 (d) Purchase Description for Performance Specification for 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units;  
 (e) Annex B - Federal Contractors Program for Employment Equity - Certification;  
 (f) The Contractor's bid dated (to be inserted by PWGSC) \_\_\_\_\_, as amended (to be inserted by PWGSC) \_\_\_\_\_.

## 10. SACC Manual Clauses (as applicable)

SACC Reference	Title	Date
A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian Contractors	2011-05-16
D5510C	Quality Assurance Authority - (DND) - Canadian Based Contractor	2012-07-16
D5515C	Quality Assurance Authority (DND) - Foreign-based and United States Contractor	2010-01-11
D5540C	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)	2010-08-16
D5545C	ISO 9001:2008 Quality Management Systems - Requirements (QAC C)	2010-08-16
D5604C	Release Document (DND) - Foreign Based Contractor	2008-12-12
D5605C	Release Documents (DND) - United States-based Contractor	2010-01-11
D5606C	Release Documents (DND) - Canadian-based Contractor	2012-07-16
G1005C	Insurance	2008-05-12

## 11. Inspection and Acceptance

The Technical Authority or his representative 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 it's representative. Should any report, document, good or service not be in accordance with the requirements of the Purchase Description 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.

## 12. Preparation for Delivery

1. The vehicle/equipment shall be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to the inspection authority or consignee at the final delivery location.
2. All vehicles/equipment are to be delivered by appointment only. Any attempt by the carrier to deliver the vehicles/equipment without an appointment may be refused. When the carrier is required to return due to its failure to make an appointment for delivery, Canada will not be liable, to pay for any additional costs.

### 13. Shipping Instructions - Delivery at Destination

1. The Contractor must ship the goods prepaid DDP - Delivered Duty Paid (in accordance with Annex A - Pricing) as specified below. Unless otherwise directed, delivery must be made by the most economical means. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and Applicable Taxes.
2. The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the person identified in Annex A - Pricing. The consignee may refuse shipments when prior arrangements have not been made.

### 14. Release Documents - Distribution

The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

One (1) copy mailed to consignee marked: "Attention: Receipts Officer";

Two (2) copies with shipment (in a waterproof envelope) to the consignee;

One (1) copy to the Contracting Authority;

One (1) copy to:

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A OK2  
Attention: \_\_\_\_\_

One (1) copy to the Quality Assurance Representative;

One (1) copy to the Contractor; and

For all non-Canadian contractors, one (1) copy to:

DQA/Contract Administration  
National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A OK2  
E-mail: ContractAdmin.DQA@forces.gc.ca.

### 15. Post-Contract Award Meeting

Within ten (10) calendar days from the effective date of the Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Technical Authority after contract award to review technical and contractual requirements. The Contractor shall be responsible for the preparation and distribution of the minutes of meeting within five (5) calendar days after the meeting has been held. The meeting will be held at the Contractor's facilities or at the Department of National Defence facility or via teleconference, at Canada's discretion at no additional cost to Canada, with representatives of the Contractor, the Department of National Defence and Public Works and Government Services Canada.

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**16. Tools and Loose Equipment**

For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF1280) or on an attached packing note.

**17. Assembly/Preparation at Delivery**

The Contractor must send a Service Representative to each delivery destination to perform the assembly/preparation on all vehicles/equipment delivered. The assembly/preparation must be performed at no additional cost to Canada.

**18. Interchangeability**

Unless changes during the production run are authorized by the Contracting Authority, all vehicles/equipment supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

**19. Environmental Considerations**

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement:

The Contractor is requested to provide all correspondence including (but not limited to) documents and reports in electronic format unless otherwise specified by the Contracting Authority, the Technical Authority, thereby reducing printed material.

The Contractor should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).

Product components used in performing the services should be recyclable and/or reusable, whenever possible.

## ANNEX A - PRICING

### Item 001 – 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units (Firm Quantity)

The Contractor must deliver fifty (50) 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items such as but not limited to vehicle manuals, data summary, photographs, preventive maintenance replacement parts kit list, warranty letter(s) and Initial Parts Kits including familiarization instruction/training, in accordance with the attached Purchase Description (title), Performance Specification for 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units.

The 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units and related items must be delivered to:

Canadian Forces Base  
25 CFSD Receipts Section  
6363 Notre Dame East  
Montreal, Quebec  
H1N 3V9

The contact person at destination is: (to be inserted by PWGSC).

Firm lot price of \$\_\_\_\_\_ per vehicle/equipment and related items, Delivered Duty Paid (... named place of destination), in accordance with Part 7, Basis of Payment Type 1.

Manufacturer: (to be inserted by PWGSC) Model: (to be inserted by PWGSC)

### Item 002 - Familiarization Instruction/Training

The Contractor must provide up to four (4) familiarization instruction/training, in accordance with the attached Purchase Description for Performance Specification for 90KVA, 400HZ, Single Output, Trailer Mounted, Diesel Powered Ground Power Units.

Firm unit price of \$\_\_\_\_\_ per familiarization instruction/training in accordance with Part 7, Basis of Payment Type 2.

### Item 003- Travel and Living for Familiarization Instruction/Training

The Contractor must deliver the familiarization instruction/training to:

(to be inserted by PWGSC)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Estimated Cost: \$(to be inserted by PWGSC in accordance with Part 7, Basis of Payment Type 3

(Item 003 will not be included in the financial evaluation)

## ANNEX B

### FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit HRSDC-Labour's website.

Date: \_\_\_\_\_ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

☐ A1. The Bidder certifies having no work force in Canada.

☐ A2. The Bidder certifies being a public sector employer.

☐ A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.

☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

☐ A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

☐ A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

☐ B1. The Bidder is not a Joint Venture.

OR

☐ B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

**EVALUATION PLAN**

**FOR**

**90 KVA, 400 HZ, SINGLE OUTPUT, TRAILER MOUNTED,**

**DIESEL POWERED GROUND POWER UNITS**

This document does not contain Controlled Goods.

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## **1.0 SCOPE**

1.1 Purpose - The evaluation plan described in this annex defines the methodology by which each submitted proposal for a 90 KVA, 400 Hz, Single Output, Trailer Mounted, Diesel Powered Ground Power Unit (GPU) will be evaluated.

## **2.0 GENERAL**

2.1 Technical Evaluation - Each proposal will be evaluated for its technical compliance by representatives of Canada.

2.2 Basis of Selection - The successful proposal selection will offer a fully compliant proposal at the lowest overall cost.

2.3 Security of Proposal and Channels of Communication - All proposals submitted for evaluation will be handled in accordance with the Access to Information Policy. Communication with the bidders shall be conducted through the official channels of PWGSC or their representatives.

## **3.0 EVALUATION**

3.1 Technical Compliance - To be considered technically compliant, the Contractor must meet all of the mandatory requirements.

3.2 Evaluation Criteria of Technical Proposals - Technical proposals received will be evaluated against Mandatory Requirements specified in the Performance Specification. Responses not meeting the Mandatory Requirements of this RFP will not be given further consideration.

#### 4.0 EVALUATION REVIEW GUIDE (to be copied as required)

#### 4.1 MANDATORY REQUIREMENTS

##### REQUIREMENTS

M requirement must be met

	SOW REFERENCE		BID REFERENCE
		GENERAL	
M	3.1.1	Provide statement certifying compliance that bidder shall provide documented OEM or independent 3 <sup>rd</sup> party laboratory successful test results for high temperature and low temperature procedures in accordance with MIL-STD-810G within sixty (60) days after contract award.	
	3.2	SPECIFICATIONS	
	3.2.1	Demonstrate Compliance to Air Standard 25/21B - Ground Electrical Power Supplies for Aircraft by providing:	
M	3.2.1.1.1	Technical specification data confirming compliance to provide 90 KVA, 72 KW.	
M	3.2.1.1.2	Technical specification data confirming compliance to provide 115/200 volts, 3 phase, 4 wires Wye connected.	
M	3.2.1.1.3	Technical specification data confirming compliance to provide 400 Hz frequency.	
M	3.2.1.1.4	Technical specification data confirming compliance to provide Overload rating 125% of rated load for period of 5 minutes.	
	3.2.1.2	Demonstrate Compliance for Electrical Characteristics by providing:	
M	3.2.1.2.1	Technical specification data confirming compliance to provide Voltage regulation +/-1% over full range of load.	
M	3.2.1.2.2	Technical specification data confirming compliance to provide Voltage adjustment +/-10%.	
M	3.2.1.2.3	Technical specification data confirming compliance to provide Voltage transient recovery +/-1% nominal voltage within 100 milliseconds.	

	<b>SOW REFERENCE</b>		<b>BID REFERENCE</b>
<b>M</b>	<b>3.2.1.2.4</b>	Technical specification data confirming compliance to provide Voltage transients +/-20% no load to full load.	
<b>M</b>	<b>3.2.1.2.5</b>	Technical specification data confirming compliance to provide Voltage modulation not to exceed 0.5% of steady state voltage.	
<b>M</b>	<b>3.2.1.2.6</b>	Technical specification data confirming compliance to provide Phase voltage balance not to exceed 1% at balanced 3 phase load, not to exceed 4% with 1/3 rated load on any single phase and no load on the other 2 phases.	
<b>M</b>	<b>3.2.1.2.7</b>	Technical specification data confirming compliance to provide Crest factor 1.414 +/- 0.07.	
<b>M</b>	<b>3.2.1.2.8</b>	Technical specification data confirming compliance to provide Total harmonic distortion not to exceed 2% of any single phase harmonic.	
<b>M</b>	<b>3.2.1.2.9</b>	Technical specification data confirming compliance to provide Line drop compensation up to 5% line to neutral to compensate for the voltage drop on the output cable.	
<b>M</b>	<b>3.2.1.2.10</b>	Technical specification data confirming compliance to provide Frequency regulation +/-2 Hz steady state.	
<b>M</b>	<b>3.2.1.2.11</b>	Technical specification data confirming compliance to provide Frequency transient recovery +/- 5 Hz within 2 seconds.	
	<b>3.2.1.3</b>	Demonstrate Compliance for Protection by providing:	
<b>M</b>	<b>3.2.1.3.1</b>	Technical specification data confirming compliance to provide Over-voltage disconnect output at 130 volts in 2 seconds	
<b>M</b>	<b>3.2.1.3.2</b>	Technical specification data confirming compliance to provide Under-voltage disconnect output below 100 volts in 7 seconds.	
<b>M</b>	<b>3.2.1.3.3</b>	Technical specification data confirming compliance to provide Over-frequency disconnect output above 420 Hz in 5 seconds.	
<b>M</b>	<b>3.2.1.3.4</b>	Technical specification data confirming compliance to provide Under-frequency disconnect below 380 Hz in 7 seconds.	
	<b>3.2.2</b>	Demonstrate Compliance for Generator Specification by providing:	
<b>M</b>	<b>3.2.2.1</b>	Technical specification data confirming compliance that the Generator be of the brushless design, revolving field, self-cooling and with brushless rotating exciter assembly.	

	<b>SOW REFERENCE</b>		<b>BID REFERENCE</b>
	<b>3.2.3</b>	Demonstrate Compliance for Ground Power Unit Prime Mover by providing:	
<b>M</b>	<b>3.2.3.1</b>	Technical specification data confirming compliance that the engine for the ground power unit is four (4) cylinder diesel. OR ,  Technical specification data confirming compliance that the engine for the ground power unit is six (6) cylinder diesel.	
<b>M</b>	<b>3.2.3.2</b>	Statement certifying compliance that the engine is fully approved by the engine manufacturer for the GPU application.	
<b>M</b>	<b>3.2.3.3</b>	Statement certifying compliance that the engine electrical system is 12 volts DC, negative ground. OR,  Statement certifying compliance that the engine electrical system is 24 volts DC, negative ground.	
	<b>3.2.3.4</b>	Demonstrate Compliance for Engine Protection by providing:	
<b>M</b>	<b>3.2.3.4.1</b>	Statement certifying compliance to provide low oil pressure shutdown.	
<b>M</b>	<b>3.2.3.4.2</b>	Statement certifying compliance to provide High coolant temperature shutdown.	
<b>M</b>	<b>3.2.3.4.3</b>	Statement certifying compliance to provide Intake air restriction indication.	
<b>M</b>	<b>3.2.3.4.4</b>	Statement certifying compliance to provide electronic control module.	
<b>M</b>	<b>3.2.3.4.5</b>	Statement certifying compliance to provide delayed shutdown for turbocharger protection.	
<b>M</b>	<b>3.2.3.4.6</b>	Statement certifying compliance to provide a low fuel warning system with either idle or shutdown of the engine and low fuel warning beacon.	
<b>M</b>	<b>3.2.3.4.7</b>	Statement certifying compliance to provide a 120 volt 60 Hz block heater for the engine coolant.	
<b>M</b>	<b>3.2.3.4.8</b>	Statement certifying compliance to provide an easy to access emergency stop button that will shut down engine in case of emergency.	
<b>M</b>	<b>3.2.3.4.9</b>	Statement certifying compliance to provide a 120 volt 60 Hz battery blanket(s)	
<b>M</b>	<b>3.2.3.4.10</b>	Statement certifying compliance to provide a 115 volt 400 Hz single-phase 15-amp receptacle to power aircraft-related test equipment	

	<b>SOW REFERENCE</b>		<b>BID REFERENCE</b>
<b>M</b>	<b>3.2.3.4.11</b>	Technical specification confirming compliance to provide the unit with a noise reduction maximum 90dB within 1 meter of the instrument panel.	
<b>M</b>	<b>3.2.3.4.12</b>	Technical specification data confirming compliance to meet current Canadian emission standards in accordance with Off-Road Compression-Ignition Engine Emission Regulations P.C. 2005-138 February 8, 2005 including all subsequent regulation amendments up to current year.	
	<b>3.2.3.5</b>	Demonstrate Compliance for Required Instrumentation by providing:	
<b>M</b>	<b>3.2.3.5.1</b>	Statement certifying compliance to provide engine tachometer indication.	
<b>M</b>	<b>3.2.3.5.2</b>	Statement certifying compliance to provide engine oil pressure indication.	
<b>M</b>	<b>3.2.3.5.3</b>	Statement certifying compliance to provide engine coolant temperature indication.	
<b>M</b>	<b>3.2.3.5.4</b>	Statement certifying compliance to provide fuel level indication.	
<b>M</b>	<b>3.2.3.5.5</b>	Statement certifying compliance to provide battery charging indication.	
<b>M</b>	<b>3.2.3.5.6</b>	Statement certifying compliance to provide running time indication.	
<b>M</b>	<b>3.2.3.5.7</b>	Statement certifying compliance to provide frequency indication.	
<b>M</b>	<b>3.2.3.5.8</b>	Statement certifying compliance to provide main generator voltmeter indication with a selector switch for 3 phases	
<b>M</b>	<b>3.2.3.5.9</b>	Statement certifying compliance to provide fault indicator lights for over-voltage, under-voltage, over-frequency, under-frequency and overload.	
<b>M</b>	<b>3.2.3.5.10</b>	Statement certifying compliance to provide panel lights.	
<b>M</b>	<b>3.2.3.5.11</b>	Statement certifying compliance to provide power accepted light.	
<b>M</b>	<b>3.2.3.5.12</b>	Statement certifying compliance to provide aircraft/test bank mode switch.	
	<b>3.2.4</b>	Demonstrate Compliance for Output Cable by providing:	
<b>M</b>	<b>3.2.4.1</b>	Statement certifying compliance to provide an output cable 60 ft long.	
<b>M</b>	<b>3.2.4.2</b>	Statement certifying compliance that the Aircraft connector has a replaceable head conforming to Air Standard 25/19A (also known as) Air Standard 4071.	

	<b>SOW REFERENCE</b>		<b>BID REFERENCE</b>
<b>M</b>	<b>3.2.4.3</b>	Statement certifying compliance that the output cable be manufactured in accordance with SAE-AS7974.	
	<b>3.2.5</b>	Demonstrate Compliance for Chassis/Trailer by providing:	
<b>M</b>	<b>3.2.5.1</b>	Statement certifying compliance that the chassis be constructed of heavy steel and have fifth-wheel type steering.	
<b>M</b>	<b>3.2.5.2</b>	Statement certifying compliance that the The trailer be equipped with a storage tray for the output cables.	
<b>M</b>	<b>3.2.5.3</b>	Statement certifying compliance that the trailer be equipped with tie down rings.	
<b>M</b>	<b>3.2.5.4</b>	Statement certifying compliance that the trailer be equipped with forklift channels.	
<b>M</b>	<b>3.2.5.5</b>	Statement certifying compliance that the trailer be equipped with a pintle hook.	
<b>M</b>	<b>3.2.5.6</b>	Statement certifying compliance that the trailer be equipped with tow bar activated brakes.	
<b>M</b>	<b>3.2.5.7</b>	Statement certifying compliance that the trailer be equipped with a beacon light to indicate that unit is in operation.	
<b>M</b>	<b>3.2.5.8</b>	Statement certifying compliance that the tow bar be prevented from contacting the ground, either with a limiting height stop or a rubber bumper on the underside.	
<b>M</b>	<b>3.2.5.9</b>	Statement certifying compliance that the tow bar has a Lunette eye as per Air Standard 4028.	
<b>M</b>	<b>3.2.5.10</b>	Statement certifying compliance that the tow bar has a handle on each side.	
	<b>3.2.6</b>	Demonstrate Compliance for Finish by providing:	
<b>M</b>	<b>3.2.6.1</b>	Statement certifying that primer coating, case coating, colours and thinners shall be in accordance with C-19-010-002/AM-000.	
<b>M</b>	<b>3.2.6.2</b>	Statement certifying that markings shall be in accordance with C-19-010-002/AM-000.	
		<b>CONFIGURATION MANAGEMENT</b>	
<b>M</b>	<b>3.3.1</b>	Provide statement certifying compliance that successful bidder shall provide documented test results in accordance with MIL-HDBK-704-3 as proof of compliance with MIL-STD-704F.	

	<b>SOW REFERENCE</b>		<b>BID REFERENCE</b>
<b>M</b>	<b>3.3.1.1</b>	Provide statement certifying compliance that contractor shall ensure that spare parts required to properly maintain and repair the GPU are available for purchase for a period of fifteen (15) years, including repair and overhaul services and logistics support.	
<b>M</b>	<b>3.3.2</b>	Provide statement certifying compliance that contractor shall supply any special tools, if required, with each GPU.	
<b>M</b>	<b>3.3.3</b>	Provide statement certifying compliance with data plate requirements.	
<b>M</b>	<b>3.3.4.1</b>	Provide statement certifying compliance that when the Contractor applies his own part number to a part manufactured by a different OEM, the OEM part number and NATO Commercial and Government Entity code (NCAGE) shall be inserted in the nomenclature column of the illustrated parts list.	
<b>M</b>	<b>3.3.4.2</b>	Provide statement certifying compliance that the Contractor shall indicate in the illustrated parts list the military specifications of parts, when applicable.	

PERFORMANCE SPECIFICATION  
FOR  
90 KVA, 400 HZ, SINGLE OUTPUT, TRAILER MOUNTED,  
DIESEL POWERED GROUND POWER UNITS

This document does not contain Controlled Goods.

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## 1.0 SCOPE

- 1.1 Purpose. This Performance Specification defines the requirements for the Ground Power Unit (GPU).
- 1.2 Background. This specific requirement is for use on multiple aircraft fleets in providing reliable power to perform ground maintenance.

## 2.0 APPLICABLE DOCUMENTS

### 2.1 Department of National Defence (DND) Documents

- 2.1.1 C-01-100-100/AG-005 (Most current issue at bid closing date) - Adoption of Commercial and Government Publications.
- 2.1.2 C-19-010-002/AM-000 (Most current issue at bid closing date) – Painting and Marking of Aircraft Maintenance Support Equipment
- 2.1.3 D-LM-008-022/SG-000 (Most current issue at bid closing date) - Standard for Packaging of Documentation
- 2.1.4 D-01-400-002/SF-000 (Most current issue at bid closing date) - DND Specifications – Drawings, Engineering and Associated Lists
- 2.1.5 D-02-002-001/SG-001 (Most current issue at bid closing date) – Identification Marking of Canadian Military Property

### 2.2 Military Standards, Federal Standards and SAE AS Aerospace Standards

- 2.2.1 MIL-STD-704F (Most current issue at bid closing date) - Aircraft Electric Power Characteristics
- 2.2.2 MIL-HDBK-704-3 (Most current issue at bid closing date) – Guidance for Test Procedures For Demonstration of Utilization Equipment Compliance to Aircraft Electrical Power Characteristics Three Phase, 400 Hz, 115 Volts
- 2.2.3 MIL-STD-810G (Most current issue at bid closing date) – Department of Defense (DOD) Test Method Standard for Environmental Engineering Considerations and Laboratory Tests
- 2.2.4 SAE-AS7974 (Most current issue at bid closing date) – Cable Assemblies and Attachable Plugs, External Electrical Power, Aircraft

### 2.3 Air Standards

- 2.3.1 Air Standard 25/21B (Most current issue at bid closing date) - Ground Electrical Power Supplies for Aircraft
- 2.3.2 Air Standard 25/19A (also known as) Air Standard 4071 (Most current issue at bid closing date) - Connectors for 115/200 Volt 400Hz 3-Phase AC Servicing Power
- 2.3.3 Air Standard 4028 (Most current issue at bid closing date) - Lunette Eye or Towing Ring

## 2.4 Emission Standards

- 2.4.1 Off-Road Compression-Ignition Engine Emission Regulations P.C. 2005-138 February 8, 2005 including all subsequent regulation amendments up to current year.

### 3.0 REQUIREMENTS

3.1 General. The contractor shall provide the GPUs, which shall include the provision of equipment, training, documentation, ILS management, as detailed further in this SOW.

3.1.1 Operating Environment. Ground Power Units must be capable of operating in extreme environmental conditions and thus is required to meet or exceed the performance specification denoted below and in accordance with MIL-STD-810G. Contractor shall provide within sixty (60) days after contract award, documented OEM or independent 3<sup>rd</sup> party laboratory successful test results for the following test methods;

3.1.1.1 Method 501.5 High Temperature, Procedure II Operation, utilizing Table 501.5-III for ambient air conditions; and

3.1.1.2 Method 502.5 Low Temperature, Procedure II Operation, utilizing Table 502.5-I Severe Cold and Table 502.5-II Frequency of Occurrence 20%.

### 3.2 Specifications

3.2.1 Ground Power Unit General Specification. The 90 KVA, 400 Hz, Single Output, Trailer Mounted, Diesel Powered Ground Power Unit shall conform to Air Standard 25/21B - Ground Electrical Power Supplies for Aircraft and shall meet the following specifications;

3.2.1.1 Capability and output rating:

3.2.1.1.1 90KVA, 72KW

3.2.1.1.2 115/200 volts, 3-phase, 4 wires Wye connected

3.2.1.1.3 400 Hz frequency

3.2.1.1.4 Overload rating of 125% of rated load for 5 minutes

3.2.1.2 Electrical characteristics;

3.2.1.2.1 Voltage regulation +/-1% over full range of load

3.2.1.2.2 Voltage adjustment +/-10%

3.2.1.2.3 Voltage transient recovery +/-1% nominal voltage within 100 milliseconds

3.2.1.2.4 Voltage transients +/-20% no load to full load

3.2.1.2.5 Voltage modulation not to exceed 0.5% of steady state voltage

3.2.1.2.6 Phase voltage balance not to exceed 1% at balanced 3 phase load, not to exceed 4% with 1/3 rated load on any single phase and no load on the other 2 phases

3.2.1.2.7 Crest factor 1.414 +/- 0.07

3.2.1.2.8 Total harmonic distortion not to exceed 2% of any single phase harmonic

3.2.1.2.9 Line drop compensation up to 5% line to neutral to compensate for the voltage drop on the output cable

3.2.1.2.10 Frequency regulation +/- 2 Hz steady state

- 3.2.1.2.11 Frequency transient recovery +/- 5 Hz within 2 seconds
- 3.2.1.3 Protection:
  - 3.2.1.3.1 Over-voltage disconnect output at 130 volts in 2 seconds
  - 3.2.1.3.2 Under-voltage disconnect output below 100 volts in 7 seconds
  - 3.2.1.3.3 Over-frequency disconnect output above 420 Hz in 5 seconds
  - 3.2.1.3.4 Under-frequency disconnect below 380 Hz in 7 seconds
- 3.2.2 General Generator Specification.
  - 3.2.2.1 The 400 Hz generator shall be of the brushless design, revolving field, self-cooling and with brushless rotating exciter assembly.
- 3.2.3 Ground Power Unit Prime Mover
  - 3.2.3.1 The engine for the ground power unit shall be a four (4) or six (6) cylinder diesel.
  - 3.2.3.2 The engine is to be fully approved by the engine manufacturer for the GPU application.
  - 3.2.3.3 The engine electrical system shall be 12 or 24 volts DC, negative ground.
  - 3.2.3.4 Engine protection and other needs shall consist of:
    - 3.2.3.4.1 Low oil pressure shutdown.
    - 3.2.3.4.2 High coolant temperature shutdown.
    - 3.2.3.4.3 Intake air restriction indication.
    - 3.2.3.4.4 Electronic control module.
    - 3.2.3.4.5 Delayed shutdown for turbocharger protection.
    - 3.2.3.4.6 Low fuel warning system with either idle or shutdown of the engine and low fuel warning beacon.
    - 3.2.3.4.7 120 volt 60 Hz block heater for the engine coolant.
    - 3.2.3.4.8 Stop button that will shut down engine in case of emergency.
    - 3.2.3.4.9 120 volt 60 Hz battery blanket(s).
    - 3.2.3.4.10 115 volt 400 Hz single-phase 15-amp receptacle to power aircraft-related test equipment.

- 3.2.3.4.11 Noise reduction maximum 90dB within 1 meter of instrument panel.
- 3.2.3.4.12 Meet current Canadian emission standards in accordance with Off-Road Compression-Ignition Engine Emission Regulations P.C. 2005-138 February 8, 2005 including all subsequent regulation amendments up to current year.

3.2.3.5 Required instrumentation shall consist of:

- 3.2.3.5.1 Engine tachometer indication
- 3.2.3.5.2 Engine oil pressure indication
- 3.2.3.5.3 Engine coolant temperature indication
- 3.2.3.5.4 Fuel level indication
- 3.2.3.5.5 Battery charging indication
- 3.2.3.5.6 Running time indication
- 3.2.3.5.7 Frequency indication
- 3.2.3.5.8 Main generator voltmeter indication with a selector switch for 3 phases
- 3.2.3.5.9 Fault indicator lights for over-voltage, under-voltage, over-frequency, under-frequency and overload
- 3.2.3.5.10 Panel lights
- 3.2.3.5.11 Power accepted light
- 3.2.3.5.12 Aircraft / test bank mode switch

3.2.4 Ground Power Unit Output Cables

- 3.2.4.1 The output cables shall be 60 feet long.
- 3.2.4.2 The aircraft connectors shall have a replaceable head and shall conform to Air Standard 25/19A - Connectors for 115/200 Volt 400Hz 3-Phase AC Servicing Power.
- 3.2.4.3 The output cables shall be manufactured in accordance with SAE-AS7974.

3.2.5 Ground Power Unit Chassis/Trailer

- 3.2.5.1 The chassis shall be constructed of heavy steel and have fifth-wheel type steering.
- 3.2.5.2 The trailer shall be equipped with a storage tray for the output cables.
- 3.2.5.3 The trailer shall be equipped with tie down rings.

- 3.2.5.4 The trailer shall be equipped with forklift channels.
- 3.2.5.5 The trailer shall be equipped with a pintle hook.
- 3.2.5.6 The trailer shall be equipped with tow bar activated brakes.
- 3.2.5.7 The trailer shall be equipped with a beacon light to indicate that unit is in operation.
- 3.2.5.8 The tow bar shall be prevented from contacting the ground, either with a limiting height stop or a rubber bumper on the underside.
- 3.2.5.9 The tow bar shall have a Lunette eye and conform to Air Standard 4028 - Lunette Eye or Towing Ring.
- 3.2.5.10 The tow bar shall have a handle on each side.

### 3.2.6 Finish

- 3.2.6.1 Primer coating, case coating, colours and thinners shall be in accordance with C-19-010-002/AM-000.
- 3.2.6.2 Markings shall be in accordance with C-19-010-002/AM-000.

## 3.3 Configuration Management.

- 3.3.1 Integrated Logistic Support. The Contractor shall provide test results in accordance with MIL-HDBK-704-3 as proof of compliance with MIL-STD-704F.
  - 3.3.1.1 The contractor is required to ensure that spare parts required to properly maintain and repair the GPU are available for purchase for a period of fifteen (15) years, including repair and overhaul services and logistics support.
- 3.3.2 Tools. In the event that special tools are required for some tasks in normal set-up or reconfiguration, the Contractor, shall supply these special tools with each GPU.
- 3.3.3 Data Plate. A Data Identification plate shall be provided in accordance with D-02-002-001/SG-001, Identification Marking of Canadian Military Property and shall be installed in the vicinity of the control panel of the GPU. It shall contain, as a minimum, the following information:
  - 3.3.3.1 Manufacturer (OEM)
  - 3.3.3.2 Nomenclature
  - 3.3.3.3 Model/Part Number
  - 3.3.3.4 Date of Manufacture
  - 3.3.3.5 Serial Number
  - 3.3.3.6 Dimensions (L x W x H) in/cm
  - 3.3.3.7 Weight lb/kg
  - 3.3.3.8 PWGSC Contract Number

### 3.3.4 Manuals.

3.3.4.1 Whenever the Contractor applies his own part number to a part manufactured by a different OEM, the OEM part number and NATO Commercial and Government Entity code (NCAGE) shall be inserted in the nomenclature column of the illustrated parts list.

3.3.4.2 The Contractor shall indicate in the illustrated parts list the military specifications of parts when applicable.

## 4.0 DELIVERABLES

- 4.1 Ground Power Unit (GPU). The Contractor shall supply GPU as per specifications detailed herein.
- 4.2 Training – Ground Power Unit. The Contractor shall conduct on site maintenance and user training for a group of approximately twenty (20) students per session for four sessions at 19 Wing Comox, British Columbia, 4 Wing Cold Lake, Alberta, 17 Wing Winnipeg, Manitoba and 12 Wing Shearwater, Nova Scotia. The language of instruction will be English. The Contractor shall provide TA with training course outline within fifteen (15) days after contract award and shall include as a minimum:
  - 4.2.1 Safety precautions to be observed while operating and servicing the equipment;
  - 4.2.2 Pre-operating and pre-shutdown procedures;
  - 4.2.3 Operation procedures;
  - 4.2.4 Equipment operating characteristics;
  - 4.2.5 Trouble shooting, testing and adjustments;
  - 4.2.6 Special tools and test equipment if applicable; and
  - 4.2.7 Preventative maintenance procedures including servicing schedules.
- 4.3 Training Schedule. Schedule to be finalized with Contractor.
- 4.4 Recommended Spares List. The Contractor shall provide a spares list including description, OEM part numbers and a published price list for sparing required for a two (2) year period with each power unit.
- 4.5 Manuals – Ground Power Units. The Contractor shall supply in English format, all applicable operating, maintenance, repair & overhaul and illustrated parts list publications in accordance with C-01-100-100/AG-005 Adoption of Commercial and Government Publications and as accepted by DND. The publications shall be packaged in accordance with D-LM-008-022/SG-000 - Standard for Packaging of Documentation.
  - 4.5.1 The Contractor shall provide the following for the ground power unit:
    - 4.5.1.1 One hard copy manual shipped with each unit.
- 4.6 Drawings and Specifications – Ground Power Unit. The Contractor shall provide drawings and/or specification sheets to the TA for cataloguing and identification of assemblies and sub-assemblies within fifteen (15) of contract award. Drawings will conform to D-01-400-002/SF-000 - DND Specifications – Drawings, Engineering and Associated Lists. The information will be used solely by DND/CF to maintain the ground power unit. The information will not be distributed to other agencies, except as mutually authorized by the Contractor, Contracting Authority and the TA.
- 4.7 Service Bulletins. Service bulletins affecting the operation, maintenance and safety of the GPU shall be forwarded to the TA for the full service life of the GPU and any other associated equipment included in this acquisition.