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**Gatineau, Québec K1A 0S5**  
**Bid Fax: (819) 997-9776**

**SOLICITATION AMENDMENT**  
**MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**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>Title - Sujet</b> Chariot Élévateur, Électrique	
<b>Solicitation No. - N° de l'invitation</b> W8476-123687/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b> W8476-123687	<b>Date</b> 2012-04-02
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HS-631-59748	
<b>File No. - N° de dossier</b> hs631.W8476-123687	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2012-04-17</b>	<b>Time Zone</b> <b>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> Forcier, Dominic	<b>Buyer Id - Id de l'acheteur</b> hs631
<b>Telephone No. - N° de téléphone</b> (819) 956-3951 ( )	<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>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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### Modification numéro 003

Cette modification numéro 003 est soulevée à Supprimer description d'achat du Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis, datée du 15 février 2012 en entier, y compris le document de l'invitation, et insérer la description d'achat du Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis, datée du 29 mars 2012, y compris le document de l'invitation; comme suit:

#### 1. Description d'achat du Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis

**Supprimer:** Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis, datée du 15 février 2012.

**Insérer:** Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis, datée du 29 mars 2012.

#### 2. Solicitation No. - N° de l'invitation W8476-123687/A

**Supprimer:** Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis, datée du 15 février 2012.

**Insérer:** Chariot Élévateur à Moteur Électrique, à Contrepoids et à Conducteur Assis, datée du 29 mars 2012.

**Tous les autres modalités et conditions restent les mêmes.**

**The Canadian Forces Material Handling Equipment**  
**Purchase Description (PD) for the Electric Type Sit Down Rider**  
**Counterbalance Forklift**

29 March, 2012

OPI: DSVPM/DAVPS 4  
National Defence Headquarters  
Major General George R. Pearkes Building  
Ottawa, Ontario  
K1A 0K2

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Issued on Authority of the Chief of the Defence Staff  
Publiée avec l'autorisation du Chef d'état-major de la Défense



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## 1. SCOPE

1.1 Scope - This purchase description covers the requirements for electric motor driven, 3 or 4 wheel, counterbalance, sit-down rider forklift trucks.

1.2 Instructions - The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word "**shall**", are mandatory. Deviations will not be permitted;
- (b) Requirements identified by "**shall**<sup>(E)</sup>" are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an Equivalent;
- (c) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (d) Where "**shall**", "**shall**<sup>(E)</sup>", or "will" are not used, the information provided is for guidance only;
- (e) In this document "provided" **shall** mean "provided and installed";
- (f) Where technical certification is required, a copy of the certification or an acceptable proof of compliance **shall** be provided upon request;
- (g) Metric measurements **shall** be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and
- (h) Dimensions stated as nominal **shall** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions - The following definitions apply to the interpretation of this Purchase Description:

- (a) "Technical Authority" - The government official responsible for technical content of this requirement;
- (b) "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance; and

- (c) "Proof of Compliance" - A document such as a brochure, a third party test report, a report generated by third party software, or a certificate of attestation (as a separate document) signed by a senior representative of the Original Equipment Manufacturer (such as a certified engineer) indicating the performance and/or feature specified.

1.4 **Configuration Capability Table** - Vehicles covered by this Purchase Description are represented as configurations. The following table shows required performance and dimensions by configuration with a clause reference.

CHARACTERISTIC	CLAUSE	UNITS	CONFIGURATION		
			A	B	C
LIFT CAPACITY	3.4.2(a)	kg	1,361	1,361	
		pounds	3,000	3,000	
LIFT HEIGHT	3.4.2(b)	mm	4,699	2,947	
		inches	185	106	
COLLAPSED HEIGHT	3.4.2(c)	mm	2,108	1,905	
		inches	84	78	
FREE LIFT	3.4.2(d)	mm	762	609	
		inches	30	24	
VEHICLE HEIGHT	3.4.2(e)	mm	2,108	1,905	
		inches	84	78	
NUMBER OF WHEELS	3.4.3		3	4	
SIDE SHIFT	3.5.1(d)	mm	50	50	
		inches	2	2	
"EE" SFETY RATING	3.3.3(a)			✓	
PNEUMATIC TIRE	3.12.1		✓		
BATTERY CAPACITY	3.15(a)	kWh	24	24	
550V, 3-PHASE CHARGER	3.15 (e)		✓		
240V, 1-PHASE CHARGER	3.15 (f)			✓	
TRAINING	4.3		✓	✓	

## 2. **APPLICABLE DOCUMENTS**

### 2.1 **Government Furnished Documents** - NOT APPLICABLE

- 
- 2.2 **Other Publications** - The following documents form part of this Purchase Description. Web sites for the organization are given when available. Effective documents are those in effect on date of manufacture. Sources are as shown:

**B335            Safety Standards for Powered Industrial Trucks**  
Canadian Standards Association (CSA)  
5060 Spectrum Way  
Mississauga, Ontario, L4W 5N6  
<http://www.csa.ca/Default.asp?language=English>

**UL 583           Standards for Safety, Electric Battery Powered Industrial Trucks**  
Underwriters' Laboratories of Canada  
7 Crouse Road,  
Scarborough, Ontario, M1R 3A9  
<http://www.ulc.ca/>

### 3. **REQUIREMENTS**

- 3.1 **Standard Design** - The vehicle/equipment **shall**:

- (a) Be the latest model from a manufacturer who has demonstrated acceptability by manufacturing and selling this type and size class of vehicle for at least 1 year;
- (b) Have engineering certification available, upon demand, for this application from the original manufacturers of major equipment systems and assemblies;
- (c) Conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture; and
- (d) Have system and component capacities not greater than their published ratings (i.e. product or component brochures) or accompanied by proof of compliance.

### 3.2 **Operating Conditions**

- 3.2.1 **Weather** - The vehicle/equipment **shall** operate under the extremes of weather conditions found in Canada in temperatures ranging from -30 to 40° C (-22 to 104° F).
- 3.2.2 **Terrain** - The forklift **shall** be capable of being operated on use-roughened concrete floors while being used stacking, unstacking and moving general supplies in warehouses.

### 3.3 **Safety Standards**

- 3.3.1 **Stability** - Vehicle stability **shall**<sup>(E)</sup> be in accordance with CSA B335.



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3.3.2 **"E" Rating** - The vehicle/equipment **shall** be manufactured to meet the requirements of an "E" Rating in accordance with Standard UL 583.

3.3.3 **Safety Rating Options** - When specified in the Configuration Capability Table, the following safety rating options **shall** be provided:

- (a) **"EE" Safety Rating** - Certification to Type "EE" requirements of UL 583 before delivery. The vehicle/equipment **shall**<sup>(E)</sup> have a UL Type "EE" label permanently attached.

3.4 **Performance** - Performance **shall** be substantiated with Proof of Compliance.

3.4.1 **Vehicle Performance** - The forklift carrying the rated capacity load **shall** be capable of forward and reverse speeds of at least 9 km/h (5.6 mph).

3.4.2 **Forklift Performance** - Forklifts equipped with the standard mast but without optional equipment or features **shall** have:

- (a) A load capacity at a 610 mm (24 inch) load centres of at least that given as "**LIFT CAPACITY**" in the Configuration Capability Table. The load capacity **shall** not de-rate to below specified load capacity before a load lift height of 3,810 mm (150 inches). ***The load capacity shall not be de-rated below the rated load capacity while side shifter is in use;***
- (b) A lift height of at least that given as "**LIFT HEIGHT**" in the Configuration Capability Table, measured from the floor to the top of the forks with the mast in an extended vertical position;
- (c) A collapsed height, in the vertical position, of no more than that given as "**COLLAPSED HEIGHT**" in the Configuration Capability Table;
- (d) A free lift (load backrest removed) of at least that given as "**FREE LIFT**" in the Configuration Capability Table; and
- (e) An overall vehicle height to its highest point of no more than that given as "**VEHICLE HEIGHT**" in the Configuration Capability Table.

**Note:** Lift heights have been chosen in order to allow pallets to be stored on storage racks which are 125 mm (5 inches) lower than the lift height to allow for pallet depth and clearance.

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Standard storage rack heights used are 3.65, 4.57, 5.18 and 5.79 metres (12, 15, 17 and 19 feet).

- 3.4.3 **Forklift Configuration**- The forklift **shall** have the number of wheels given as "NUMBER OF WHEELS" in the Configuration Capability Table.

3.5 **Equipment**

- 3.5.1 **Application Equipment** - Equipment/features below **shall** be provided:

- (a) **Mast** - A wide, see-through, telescopic hydraulic mast;
- (b) **Forks** - Forks having a nominal length of 1,066 mm (42 inches) in lieu of standard forks. The forks **shall** be shipped with Non-Destructive Test (NDT) certification documents;
- (c) **Backrest** - Manufacturer's standard load backrest. It is preferred that the backrest have a nominal height of 1,219 mm (48 inches); and
- (d) **Integral Fork Positioner/Side Shifter** - A fork-positioning attachment in lieu of the standard side shifter. The fork positioning attachment **shall** increase/decrease the spacing between the unloaded forks hydraulically. The fork-positioning attachment **shall** be capable of providing side shifting of fully loaded forks simultaneously to either side of the center to at least that given as "SIDE SHIFT" in the Configuration Capability Table.

- 3.6 **Operator Station** - The operator station **shall** include:

- (a) **Overhead Guard** - A driver's overhead guard with wire mesh or Equivalent mounted to protect operator;
- (b) **Seat** - A padded water-resistant operator's seat and backrest equipped with seat belts; and
- (c) **Mirror(s)** - Rear view mirror(s) positioned providing a full view of both sides for safe reverse operations.

- 3.7 **Chassis** - The vehicle chassis **shall** be the manufacturers standard for a vehicle of this type and size.

- 3.8 **Motors** - Equipment electric motors **shall** be manufacturer's standard and in accordance with applicable standards. An AC motor is preferred.

- 3.9 **Drive Unit** - The vehicle **shall** be equipped with a manufacturer's standard drive unit.

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- 3.10 **Brake System** - The vehicle **shall** be equipped with manufacturer's standard braking system, which **shall**<sup>(E)</sup> conform to CSA B335.
- 3.11 **Steering** - The vehicle **shall** be equipped with manufacturer's standard steering system, which **shall**<sup>(E)</sup> conform to with CSA B335.
- 3.12 **Tires** - The tires **shall** be the manufacturer's standard being a smooth face press-on type. The tread material **shall** be optimized for use on an electric forklift.
- 3.12.1 **Pneumatic Tire Option** - Pneumatic tires **shall** be provided in lieu of the standard tires when indicated in the Configuration Capability Table.
- 3.13 **Controls** - The vehicle **shall** have the manufacturer's standard controls including a throttle control for convenient right foot operation.
- 3.14 **Instruments** - Manufacturer's standard instruments which **shall** include a digital read-out hour-meter which records accumulated running time up to 9,999 hours and a battery state-of-charge indicator with lift interrupt.
- 3.15 **Electrical System** - The electrical system **shall**:
- (a) Have a battery capacity of at least that given as "**BATTERY CAPACITY**" in the Configuration Capability Table and a voltage of at least 36 volts;
  - (b) Have battery connectors colour coded to indicate the voltage;
  - (c) Have a CSA approved, automatic constant voltage heavy-duty battery charger. The consignee will install the battery charger. The floor mounted battery charger **shall** be wired to operate from the designated power source;
  - (d) **Back-Up Alarm System** - Have a back-up alarm system to alert personnel that the vehicle is in back-up mode;
  - (e) **Charger 550 V, 3 Phase** - Have a battery charger capable of charging the forklift batteries from a 550 volt, three phase, 60Hz power source; and
  - (f) **Charger 240 V, Single Phase** - When specified in the configuration capability Table, have a battery charger capable of charging the forklift batteries from a 240 volt, single phase, 60Hz power source.
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3.16 **Lighting** - The vehicle lighting **shall** be the manufacturer's standard. The vehicle lighting **shall** include:

(a) **Reverse Movement Strobe Light** - A red strobe mounted on the rear of the forklift, which is activated when the vehicle travels in reverse.

3.17 **Hydraulic System** - The hydraulic system **shall** be the manufacturer's standard complete with all components required for the operation of the hydraulic equipment specified.

3.18 **Lubricants and Hydraulic Fluids** - The vehicle **shall** be serviced with the manufacturer's standard lubricants and hydraulic fluids.

3.19 **Paint** - The vehicle **shall** be painted using manufacturer's standard commercial colours. The prime coating **shall** be a high-durability, corrosion-resistant type. The prime coating **shall**<sup>(E)</sup> be epoxy type or baked powder coat.

3.20 **Identification** - The following information **shall** be permanently marked in a conspicuous and protected location:

(a) Manufacturer's name, model and serial number; and

(b) Manufacturer's Vehicle Identification Number (VIN), where applicable.

#### **4. INTEGRATED LOGISTIC SUPPORT**

4.1 **General** - The Contractor is required to ensure that spare parts required for properly maintaining and repairing vehicles are available for purchase for a period of 15 years.

4.2 **Documentation and Support Items** - The Contractor **shall** provide the following documentation and support items.

4.2.1 **Items with Each Vehicle** - The Contractor **shall** provide the following items with each vehicle:

a) **Vehicle Manuals** - Manuals required for safe operation, maintenance and repair of the vehicle. It is preferred that complete sets of manuals are provided on CD/DVD-ROM (without password(s), special installation requirements or requiring an Internet connection). The Vehicle Manuals **shall** include:

i **Operator's Manuals** - Operator's manuals in a bilingual format or as 2 manuals in a single binder (one English, and one French). An Operator's

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Manuals in paper format **shall** always be provided with each vehicle;

- ii **Parts Manuals** - The Parts Manuals in English (French translation is desirable);
- iii **Maintenance (Shop Repair) Manuals** - The Maintenance (Shop Repair) Manual in English (French translation is desirable); and
- iv **Sample Manuals** - A set of Sample Manuals, including all of the above manuals in electronic format. The sample manuals **shall** be delivered to the Technical Authority 20 working days before delivery of vehicles. Sample manuals will not be returned. The Technical Authority will provide manual approval or comments within 15 days.

(b) **Warranty Letter** - A paper copy of the completed bilingual Warranty Letter with each vehicle shipped in the approved format. The Contractor **shall** send a copy of the Warranty Letter, in electronic format, to the Technical Authority for each vehicle, at shipment. Designated warranty providers **shall** honour the warranty letter; and

(c) **Initial Parts Kit** - One Initial Parts Kit accompanying each vehicle/ equipment. Each Initial Parts Kit **shall** include a complete set of filters and filter elements from the Original Equipment Manufacturer.

4.2.2 **Documents Provided to Technical Authority** - The Contractor **shall** provide the following documents to the Technical Authority:

(a) **Data Summary** - A bilingual Data Summary for each make/model/ configuration by completing Technical Authority's template with data and a vehicle picture. The Contractor **shall** provide a Data Summary, if possible, before shipment of vehicles;

(b) **Photographs** - Two (2) digital pictures, one left-front three-quarter view, and one right-rear three-quarter view of each make/model/ configuration. It is preferred that pictures have an uncluttered background. Pictures **shall** have a size of at least 10 Mega pixels;

(c) **Preventive Maintenance Replacement Parts Kit List** - A list of parts needed to perform preventive maintenance on a vehicle/equipment during the first scheduled preventive maintenance. The list **shall** include the parts provided in the Initial Parts Kit and additional items recommended by the Original Equipment Manufacturer for review and

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acceptance by the Technical Authority. The list **shall** include the following elements:

- i Part description;
- ii Original Equipment Manufacturer Part number;
- iii Suggested quantity; and
- iv Unit cost.

- (d) **Material Safety Data Sheets** - The contractor **shall** provide a listing of all hazardous materials used in the fabrication of the product supplied to the Technical Authority, if there are no hazardous materials used, this **shall** be noted on the listing. The contractor **shall** provide Material Safety Data Sheets for all the hazardous materials used in the fabrication of the product supplied.

4.3 **Training** - The Contractor **shall** perform the following training:

- (a) **Familiarization** - At least 1-day (8 hours) familiarization instruction at each destination, for a maximum of 8 personnel, no later than one month after delivery of each vehicle. The instruction **shall** include the detailed operation and normal servicing of the vehicle/equipment and **shall** be split into two - four (4) hour segments for operator familiarization and maintainer familiarization. Familiarization instructions **shall** be available in both official languages for destinations in the province of Quebec or as requested by the Technical Authority. The final dates **shall** be arranged with the Technical Authority. After completion of the familiarization session, the Contractor **shall** have a "PROOF OF FAMILIARIZATION INSTRUCTION" certificate signed by the consignee. The Technical Authority will supply this document in an electronic format, when requested.

5. **VEHICLE DELIVERY CONDITION**

- 5.1 **General** - The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted) and both the interior and exterior **shall** be cleaned. If the vehicle requires assembly at destination, the Contractor **shall** be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the equipment, **shall** be listed on the shipping certificate or to an attached packing note.

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