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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

Title - Sujet Forklift Truck Diesel	
Solicitation No. - N° de l'invitation W8476-123698/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client W8476-123698	Date 2012-06-01
GETS Reference No. - N° de référence de SEAG PW-\$\$HS-627-60216	
File No. - N° de dossier hs627.W8476-123698	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-06-15	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Mercier, Nicolas	Buyer Id - Id de l'acheteur hs627
Telephone No. - N° de téléphone (819) 956-3481 ()	FAX No. - N° de FAX (819) 956-5227
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

Amendment 003: This amendment is raised to:

1. Extend the solicitation closing date to **June 15, 2012**.
2. Provide questions and answers as follows:

Question 1:

Do you require a free lift or a standard mast?

Answer 1:

Any type of mast is accepted as long as it meets the six (6) inches free lift requirement and the Purchase Description.

Question 2:

Is the free lift of fifteen (15) inches precise?

Answer 2:

The dimension of 15-inches is no longer required.

The Configuration Capability Table, Section 1.4 of the Purchase Description (PD), column 4, row 4, has been amended to read 151mm (6-inches) as indicated below.

Question 3:

Is the dimension of 15-inches taken from the top of the mast or is it the difference between the ground level and the top of the forks?

Answer 3:

The dimension of fifteen (15) inches is no longer required as indicated below. However the dimension is measured from the ground to the top of the forks.

Question 4:

Please advise if a bid can supply single drive tires as opposed to "dual drive" tire as per 3.12 (b) as long as all other specs are met.

Answer 4:

No - single drive tires would not be acceptable.

Question 5:

Please clarify paragraph 3.4.1 C - "are we asked to be able to stack to a height of two containers or to stack one container on top of two containers, thus to a height of three containers?"

Answer 5:

Loading and unloading containers at least two stack high means stacking a container on top of one and un-stacking a container which is stacked on top of one container, thus two containers high.

Question 6:

It is not stated in the RFP that the forklift be articulated nor that it must have a self-levelling function. Is this an oversight? An articulated forklift provides a much shorter turning radius.

Answer 6:

An articulated forklift would be acceptable providing the unit meets all the other performance requirements specified in the Purchase Description.

3. 1) Delete the Purchase Description (PD) for Forklift Trucks, 4X4, Diesel Engine Driven, Sit Down Rider dated 6 February 2012.

- 2) Insert the Purchase Description (PD) for Forklift Trucks, 4X4, Diesel Engine Driven, Sit Down Rider dated modified May 28, 2012.

Modifications are:

FREE LIFT	3.4.2(c)	mm	381	
		in	15	

FREE LIFT	3.4.2(c)	mm	151	
		in	6	

ALL OTHER TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL REMAIN UNCHANGED.

The Canadian Forces Material Handling Equipment
**Purchase Description (PD) for Forklift Trucks, 4X4,
Diesel Engine Driven, Sit Down Rider**

28 May 2012

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

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 4 x 4, internal combustion engine sit down rider forklift trucks capable of handling empty containers.

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**^(E)" 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**^(E)", 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
LIFT CAPACITY	3.4.2(a)	kg	15.875	
		lbs	35.000	
LOAD CENTRE	3.4.2(a)	mm	610	
		in	24	
LIFT HEIGHT	3.4.2(b)	mm	4.572	
		in	180	
FREE LIFT	3.4.2(c)	mm	151	
		in	6	
COLLAPSED HEIGHT	3.4.2(d)	mm	3.759	
		in	148	
FORK LENGTH	3.5.1(b)	mm	2.438	
		in	96	
MAST ACCUMULATOR	3.5.1(i)		✓	
SIDE SHIFT	3.5.1(j)	mm	200	
		in	8	
CAB	3.6(a)		✓	
SUSPENSION SEAT	3.6(b)		✓	
AIR CONDITIONER	3.6(d)		✓	
FUEL FIRED ENGINE PRE-HEATER	3.8.3(d)		✓	
INITIAL PARTS KIT	4.1.1(c)		✓	
TRAINING	4.2(a)		✓	

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:

SAE Handbook
Society of Automotive Engineers Inc.
400 Commonwealth Dr.,
Warrendale, PA, 15096
<http://www.sae.org>

CSA B335-04 Safety Standards for Powered Industrial Trucks
Canadian Standards Association (CSA)
178 Rexdale Blvd.
Rexdale, Ontario, M9W 1R3
<http://www.csa.ca/Default.asp?language=English>

UL558 Standards for Safety, Industrial Trucks, Internal Combustion Engine Powered
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 manufacturer's latest model having demonstrated industry acceptability by having been sold commercially for at least 2 years, or, **shall** be manufactured by a company that has at least 5 years experience in manufacturing of similar equipment;
- (b) Have engineering certification available, upon demand, for this application from the original manufacturers of major equipment systems and assemblies;
- (c) Be subject to demonstrations and testing, to demonstrate the vehicle and vehicle system's capability to satisfy performance requirements as detailed in paragraph 4.4;
- (d) 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

- (e) 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 37°C (-22 to 99°F).
- 3.2.2 Terrain - The forklift **shall** be capable of being operated on use-roughened concrete floors and deteriorated outdoor paved surfaces while being used stacking, un-stacking and moving general supplies in and around warehouses. The vehicle **shall** be capable of being operated off-road (e.g. construction sites, open fields and dirt tracks). Terrain conditions **shall** include year round operations on snow, mud, sand and ice.

3.3 Safety Standards

- 3.3.1 Noise Level - The vehicle/equipment noise levels **shall** meet the requirements of legislation relative to Occupational Safety and Health both at the operator's station and exterior to the vehicle.
- 3.3.2 Stability - Vehicle stability **shall**^(E) be in accordance with CSA B335.
- 3.3.3 Hazardous Materials - The contractor **shall** minimize the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals used in the fabrication of the product supplied. Items considered as hazardous materials **shall** be those given in the Hazardous Products Acts. The contractor **shall** provide Material Safety Data Sheets to the Technical Authority of all the above substances used in the fabrication of the product supplied.
- 3.3.4 "D" Rating - The vehicle/equipment **shall** be manufactured to meet the requirements of a "D" Rating in accordance with Standard UL 558.
- 3.4 Performance - The vehicle **shall** have the following performance.
 - 3.4.1 Vehicle Performance - The forklift with rated capacity load **shall** be capable of:

- (a) Forward speeds of at least 20 km/h (12 mph);
- (b) Climbing slopes of 20 percent, loaded; and
- (c) Loading and unloading of 20-ft empty ISO containers at least two stack high.

3.4.2 **Forklift Performance** - Performance **shall** be substantiated with proof of compliance. Forklifts equipped with the standard mast but without optional equipment or features **shall** have:

- (a) A load capacity of at least that given as "**LIFT CAPACITY**" in the Configuration Capability Table at the load centre given as "**LOAD CENTRE**" in the Configuration Capability Table;
- (b) A lift height (measured from the floor to the top of the forks) of at least that given as "**LIFT HEIGHT**" in the Configuration Capability Table;
- (c) A free Lift of at least that given as "**FREE LIFT**" in the Vehicle Configuration Table; and
- (d) An overall vehicle height of no more than that given as "**COLLAPSED HEIGHT**" in the Configuration Capability Table with the mast completely collapsed and in vertical position.

3.4.3 **Dimensions** - The dimensions of the vehicle **shall** be as follows:

- (a) Clearance under the mast of not less than 304 mm (12 inches); and
- (b) Approach and departure angles of not less than 25 degrees.

3.5 **Equipment**

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

- (a) **Mast** - A wide, visible see-through telescopic hydraulic type with a controlled tilt forward and backward. The degree of tilt **shall** be compatible with the maximum fork height;

- (b) **Forks** - Forks having a nominal fork length of that given as "**FORK LENGTH**" in the Configuration Capability Table. 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 1219 mm (48 inches);
- (d) **Vehicle Tie-Down Devices** - Vehicle tie-down devices. Permanent and integrally vehicle tie-down devices **shall**:
 - i Be designed to withstand stresses imposed by thrust loads (all directions) with a factor of safety of 1.5 with respect to the ultimate strength of the material;
 - ii Be designed for forward thrust of 4 G, a rearward thrust of 4 G, an upward thrust of 2 G and a side thrust of 1.5 G (1 G = shipping weight of the equipment), loads are not imposed simultaneously;
 - iii Be designed/located to prevent shifting or movement during transport on low-bed trailers, rail car and aboard ships;
 - iv Be located to permit easy attachment of cables or turnbuckles;
 - v Be identified and marked with maximum strain permitted. Markings **shall** be painted using a contrasting colour; and
 - vi Include complete tie down instructions showing locations. This information **shall** be shown in the manual and it is preferred that it is marked in the vehicle cab (in the form of decals).
- (e) **Vandal Protection** - Vandal protection including provision (Padlock hasps preferred) for locking engine covers, filler caps and the cab;
- (f) **Recovery Hooks** - Towing hooks, loops, or a component with equivalent capability at the front and rear of the vehicle. Recovery hooks whose location is other than the vehicle chassis **shall** be approved by the Technical Authority;

- (g) **Tool Compartment** - Tool compartment to hold all tools and minor loose equipment required for daily maintenance, which **shall**:
 - i Be protected from elements and road splash or be of weatherproof construction with anti-return type drainage; and
 - ii Have compartment cover equipped with a means to be secured using a padlock. The cover **shall** have a weatherproof seal.
- (h) **Filler Caps** - Clearly/permanently identified filler caps by contents, using international symbols, a standard (i.e. SAE 10W30) or written in French and English.
- (i) **Mast Lift Accumulator** - A system to absorb impacts load from tracks, potholes and other obstacles; and
- (j) **Side Shifter** - A side shifter capable of providing a side shift of at least that given as "SIDE SHIFT" in the Configuration Capability Table.

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

- (a) **Cab** - Fully enclosed pressurized, weatherproof, insulated and sound-proofed cab, in lieu of overhead guard. The cab **shall**:
 - i. Have a heater with a ventilation and defrosting system;
 - ii Have clear safety glass in windows providing all around visibility;
 - iii Have electrically power actuated windshield wipers; and
 - iv Have overhead load visibility during storage and retrieval operations.
- (b) **Suspension Seat** - A full suspension seat in lieu of the standard seat with the same standards with respect to seat belts and adjustments.
- (c) **Mirror(s)** - Rear view mirror(s) positioned providing a full view of both sides for safe reverse operations; and
- (d) **Air Conditioner** - An air conditioning system conforming to SAE J1503 and SAE J169. Air conditioning

units **shall** not use ozone depleting refrigerants such as CFCs (ChloroFluoroCarbons) but preferably use HFCs (Hydro FluoroCarbons).

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

3.8 **Engine** - The engine **shall** be diesel powered.

3.8.1 **Engine Components** - Engine components **shall** include:

- (a) A two stage dry type air cleaning system with a cyclonic pre-cleaner. Filters **shall** have a filter restriction gauge, which is preferably visible from the operator's station;
- (b) A muffler or exhaust system suitably located and/or shielded so that personnel will not contact a heated surface; and
- (c) Weather guards or an effective device to prevent entry of water into intake and exhaust stacks.

3.8.2 **Fuel Tank(s)** - The fuel tank(s) **shall** be the manufacturer's standard. The fuel tank(s) **shall** be at least half full when delivered.

3.8.3 **Engine Cold Weather Aids** - The engine **shall** be equipped with cold weather aids to enable the engine (operating with winter grade fuels/oils) to be started at temperatures down to -40° C. The following **shall** be included:

- (a) 110-volt engine heater(s) with a capacity as recommended by the engine manufacturer or conforming to SAE Information Sheet J1310;
- (b) **Engine Fuel-Water Separator** - A water separator/ fuel filter incorporating an electrical heating system to preheat diesel fuel prior to starting;
- (c) A low temperature starting aid. The engine **shall** have an glow plug or intake air preheat system; and
- (d) **Fuel-Fired Pre-Heater** - A fuel-fired preheat system. The fuel-fired pre-heater **shall** have an output of no less than 31.6 kJ (30,000 BTU). The unit **shall** be complete with an in-cab controller, which includes an automatic timing circuit with a delayed start of no

less than 24 hours. The model **shall** be subject to Technical Authority approval. The preferred model is NSN 2990-12-357-4265 (Espar Hydronic D10).

- 3.9 **Transmission** - The vehicle **shall**^(E) be equipped with the following:
- (a) A power shift or power shuttle transmission (with at least 3 gear ratios forward and reverse), or an infinitely variable forward and reverse hydrostatic, servo-controlled drive incorporating automatic controls to compensate for speed and load; and
 - (b) An inching transmission, clutch or other device incorporated in the driveline of the vehicle, to allow precise vehicle control.
- 3.9.1 **All Wheel Drive System (Full-Time)** - An all wheel drive system (full-time) **shall** be provided. The all wheel drive system **shall** provide a 4 X 4 capability by delivering power equally to all wheels.
- 3.10 **Brake System** - The vehicle **shall** be equipped with manufacturer's standard braking system, which **shall**^(E) conform to CSA B335.
- 3.11 **Steering** - The vehicle **shall** be equipped with manufacturer's standard steering system, which **shall**^(E) conform to with CSA B335.
- 3.12 **Wheels, Rims and Tires** - The vehicle **shall** be equipped with:
- (a) Excavator type tubeless radial tires which **shall**^(E) be equivalent to a Michelin XZL tread; and
 - (b) Dual drive load wheels in lieu of standard single load wheels.
- 3.13 **Controls** - Controls **shall** be manufacturer's standard including a safety device ensuring that engine can only be started with the transmission in a neutral position and a throttle control positioned for convenient operation.
- 3.14 **Instruments** - Instruments **shall** be manufacturer's standard including a numeric read-out hour-meter, which displays accumulated running time up to 9,999 hours.
- 3.15 **Electrical System** - The vehicle electrical system **shall** be the manufacturer's standard. The electrical system **shall** include a back up alarm system.

- 3.16 **Lighting** - The vehicle lighting **shall** be the manufacturer's standard. The vehicle lighting **shall** include:
- (a) Have floodlights that allow forklift operations at night, with sufficient lighting for the operator to see the load and fork tips in all positions. This **shall** include an adjustable floodlight; and
 - (b) Include an amber rotating beacon or strobe mounted on the rear of the forklift, which is activated when the vehicle travels.
- 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 non-proprietary 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**^(E) 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** - The Contractor is required to ensure that spare parts required to properly maintain and repair vehicles are available for purchase for a period of 15 years.
- 4.1 **Documentation and Support Items** - The Contractor **shall** provide the following documentation and support items.
- 4.1.1 **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 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.

4.1.2 **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 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.

4.2 **Training** - When indicated in the Configuration Capability Table, 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** - 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.