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**Revision to a Request for Supply
Arrangement - Révision à une demande
pour un arrangement en matière
d'approvisionnement**

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
LEFTD - HS Division
140, O'Connor Street/
140, rue O'Connor,
East Tower, 4th Floor/
Tour Est, 4e étage
Ottawa
Ontario
K1A 0S5

Title - Sujet Forklift Trucks -Chariots élévateur Forklift Trucks -Chariots élévateur à fourches	
Solicitation No. - N° de l'invitation E60HS-21FRKL/A	Date 2021-03-26
Client Reference No. - N° de référence du client E60HS-21FRKL	Amendment No. - N° modif. 001
File No. - N° de dossier hs653.E60HS-21FRKL	CCC No./N° CCC - FMS No./N° VME
GETS Reference No. - N° de référence de SEAG PW-\$\$HS-653-79868	
Date of Original Request for Supply Arrangement 2021-03-18 Date de demande pour un arrangement en matière d'app. originale	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2026-03-18 Heure Avancée de l'Est HAE	
Address Enquiries to: - Adresser toutes questions à: Martial, Daniel	Buyer Id - Id de l'acheteur hs653
Telephone No. - N° de téléphone (613) 296-7559 ()	FAX No. - N° de FAX () -
Delivery Required - Livraison exigée	
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	
Security - Sécurité This revision does not change the security requirements of the solicitation. Cette révision ne change pas les besoins en matière de sécurité de l'invitation.	

Instructions: See Herein

Instructions: Voir aux présentes

Acknowledgement copy required	Yes - Oui	No - Non
Accusé de réception requis	<input type="checkbox"/>	<input type="checkbox"/>
The Offeror hereby acknowledges this revision to its Offer. Le proposant constate, par la présente, cette révision à son offre.		
Signature	Date	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
For the Minister - Pour le Ministre		

Amendment 001

This amendment 001 is issued to modify the request for supply arrangement as follows:

1. In Annex "F":

Insert:

Attached document - Purchase Description – Group 3B

2. In Appendix "E1":

Insert:

Attached document - Technical Evaluation Matrix – Group 3A

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.



NOTICE

This documentation has been reviewed by the Technical Authority and does not contained

SUPPLY ARRANGEMENT (SA) FOR CANADIAN FORCES MATERIAL HANDLING EQUIPMENT
GROUP 3B
PURCHASE DESCRIPTION (PD) (SA)
For
Electric Stand-Up Rider, Counterbalance Forklift Truck

Date: 09 September 2020

OPI DSVPM 4 – DAVPS 4
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 counterbalanced electric stand-up rider, counterbalance forklift trucks with features and accessories.

1.2. **Instructions**

- a) Appendix A containing the Data Table as well as the Feature and Accessory Table applicable to each Configuration is an integral part of this specification.
- b) Requirements that are identified by the word “**must**”, **must** be treated as mandatory. Deviations will not be permitted.
- 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 “**must**” or “will” are not used, the information provided is for guidance only.
- e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **must** be supplied by the Contractor.
- f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an **Equivalent must** be supplied, when requested by the **Technical Authority**.
- g) While the International System of Units (SI) **must** be used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the standard system for this product may be indicated. Conversion from one system of measurement to the other may not be exact.
- h) Dimensions stated as nominal **must** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but that differ from the actual dimensions.

1.3. **Definitions**

- a) “**Provided**” means “provided and installed”.
- b) “**Technical Authority**” means the official responsible for the technical content of this requirement.
- c) “**Equivalent**” means a standard, means, or component type that the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance.
- d) “**Commercially Equipped**” means that the vehicle is provided in its standard commercial configuration with no additional government-specified requirements.

2. **APPLICABLE DOCUMENTS**

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

2.2.0 **Other Publications** - Canada will not supply reference documents. Effective documents are those in effect on the date of the manufacture of the vehicle. Information on the organization is supplied below.

2.2.1 **SAE Standards**

SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>

2.2.2 **CSA B335**

Safety Standards for Lift Trucks

Canadian Standards Association (CSA)
5060 Spectrum Way, Suite 100
Mississauga, Ontario, L4W 5N6
<http://www.csa.ca/cm/ca/en/home>

2.2.3 **UL 583**

Standard for Electric-Battery-Powered Industrial Trucks

Underwriters' Laboratories of Canada
7 Underwriters Road,
Toronto, Ontario, M1R 3A9
<http://www.ulc.ca/>

2.2.4 **Hazardous Products Act**

Government of Canada / Department of Justice
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>

2.2.5 **ANSI Standards**

ANSI/ITSDF B56.1 Safety Standard for Low Lift and High Lift Trucks
Industrial Truck Standards Development Foundation
1750 K Street NW, Suite 460, Washington DC 20009, USA
<http://www.itsdf.org/>

3. **REQUIREMENTS**

3.1. **Standard Design**

- 3.1.1. The vehicle **must** 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 one (1) year;
- 3.1.2. The vehicle **must** have engineering certification available, upon demand, for this application from the original equipment manufacturers (OEM) of major equipment systems and assemblies;
- 3.1.3. The vehicle **must** conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and emissions in effect in Canada at the time of manufacture;
- 3.1.4. The vehicle **must** have systems and components not operating at greater than their ratings published by the systems or components manufacturers; and
- 3.1.5. The vehicle **must** include all components, equipment and accessories normally supplied for the model offered, although they may not be specifically described in this Purchase Description.

3.2. **Operating Conditions**

- 3.2.1. **Weather** – The vehicle **must** start and operate under weather conditions found in Canada in temperatures ranging from 0°C to 40°C (32°F to 104°F).
- 3.2.2. **Terrain** - The vehicle **must** operate on use-roughened concrete floors while being used for stacking, un-stacking and moving general supplies in warehouses.

3.3. **Safety Standards**

- 3.3.1. **Noise Level** – The vehicle noise levels **must** meet the requirements of legislation relative to paragraph 7.4 of Canada Occupational Safety and Health Regulations both at the operator’s station and exterior to the vehicle for exposures of eight (8) hours during a twenty four (24) hour period when measured in accordance with CAN/CSA Z107.56-13.
- 3.3.2. **Vehicle Safety** – All vehicle design, construction and safety aspects **must** be in accordance with the latest edition of ANSI/ITDSF B56.1.
- 3.3.3. **Hazardous Materials** – The Contractor **must** minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) on the vehicle at the time of delivery.
- 3.3.4. **“E” Safety Rating** - The vehicle **must** be manufactured to meet the requirements of an “E” safety rating in accordance with Standard UL 583, or an ***Equivalent***.
- 3.3.5. **“EE” Safety Rating Feature**

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- (a) The vehicle **must** be manufactured to meet the requirements of an “EE” safety rating in accordance with Standard UL 583, or an **Equivalent**, in lieu of the “E” safety rating (paragraph 3.3.4); and
- (b) A certification label confirming the vehicle meets the “EE” safety rating **must** be permanently affixed to the vehicle before delivery.
- 3.4. **Vehicle** - The vehicle **must** be a counterbalanced stand-up rider forklift.
- 3.4.1. **Forklift Performance**
- (a) The vehicle, with the standard mast and no accessories, **must** have a load capacity at a 610 mm load centre of at least that given as “LIFT CAPACITY” in the A.1 - Data Table (Appendix A);
- (b) The vehicle **must** have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “STANDARD MAST” - “LIFT HEIGHT” in the A.1 - Data Table (Appendix A); and
- (c) The vehicle, with the standard mast in its lowest position, **must** pass under a horizontal beam with a height above ground level of that given as “STANDARD MAST” - “VEHICLE HEIGHT” in the A.1 - Data Table (Appendix A).
- 3.5. **Equipment**
- (a) **Standard Mast**
- i. The vehicle **must** be provided with a telescopic mast; and
- ii. The standard mast **must** have full free lift.
- (b) **Forks** - The vehicle **must** be provided with forks having a nominal fork length of “FORK LENGTH” as given in the A.1 - Data Table (Appendix A);
- (c) **Load Backrest** – The load backrest **must** have a nominal height of 1,219 mm (48 inches);
- (d) **Fork Tine Position Guide**
- i. The vehicle **must** be provided with a fork tine position guide;
- ii. The fork tine position guide **must** be permanently attached to the backrest;
- iii. The fork tine position guide **must** use a laser to create a line that shows the level of the top of the fork tines;
- iv. The fork tine position guide **must** be connected to the vehicle electrical system;
- v. The fork tine position guide **must** automatically turn off when the vehicle is turned off; and
- vi. The fork tine position guide **must** automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.
- 3.5.1. **Features and Accessories** - The following accessories, attachments and features **must** be provided, when requested:
- (a) **Mast no. 2**
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- i. The vehicle **must** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
 - ii. Mast no. 2 **must** have full free lift;
 - iii. Mast no. 2 **must** have a lift height, measured from them floor to the top surface of the forks in the full-up position, of at least that given as “**MAST 2**” – “**LIFT HEIGHT**” in the A.1 - Data Table (Appendix A); and
 - iv. The vehicle, with mast no. 2 in its lowest position, **must** pass under a horizontal beam with a height above ground level of that given as “**MAST 2**” – “**VEHICLE HEIGHT**” in the A.1 - Data Table (Appendix A).
- (b) **Mast no. 3**
- i. The vehicle **must** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
 - ii. Mast no. 3 **must** have full free lift;
 - iii. Mast no. 3 **must** have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “**MAST 3**” – “**LIFT HEIGHT**” in the A.1 - Data Table (Appendix A); and
 - iv. The vehicle, with mast no. 3 in its lowest position, **must** pass under a horizontal beam with a height above ground level of that given as “**MAST 3**” – “**VEHICLE HEIGHT**” in the A.1 - Data Table (Appendix A).
- (c) **Mast no. 4**
- i. The vehicle **must** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
 - ii. Mast no. 4 **must** have full free lift;
 - iii. Mast no. 4 **must** have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “**MAST 4**” – “**LIFT HEIGHT**” in the A.1 - Data Table (Appendix A); and
 - iv. The vehicle, with mast no. 4 in its lowest position, **must** pass under a horizontal beam with a height above ground level of that given as “**MAST 4**” – “**VEHICLE HEIGHT**” in the A.1 - Data Table (Appendix A).
- (d) **Mast no. 5**
- i. The vehicle **must** be provided with mast no. 5, in lieu of the standard mast (paragraph 3.5 (a));
 - ii. Mast no. 5 **must** have full free lift;
 - iii. Mast no. 5 **must** have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “**MAST 5**” – “**LIFT HEIGHT**” in the A.1 - Data Table (Appendix A); and
 - iv. The vehicle, with mast no. 5 in its lowest position, **must** pass under a horizontal beam with a height above ground level of that given as “**MAST 5**” – “**VEHICLE HEIGHT**” in the A.1 - Data Table (Appendix A).

(e) **Side Shifter** – The vehicle **must** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 (2 inches) mm to either side of the centreline; and

(f) **Fire Extinguisher**

- i. Electric vehicles must be provided with a fire extinguisher having at least 1 kg (2.2 lb) of fire extinguishing chemicals;
- ii. The fire extinguisher must be readily accessible to the operator; and
- iii. The fire extinguisher must not interfere with the operation of the vehicle or the view of the operator.

3.6. **Operator Station**

- (a) The vehicle **must** be provided with an operator station with an overhead guard that allows full load visibility;
- (b) The overhead guard **must** be provided with steel bars or **Equivalent** mounted to protect the operator from falling objects;
- (c) The vehicle **must** have a clearance of at least 1,994 mm (78.5 inches) between the floor and the underside of the overhead guard;
- (d) The operator station **must** be provided with an anti-fatigue floor mat and an operator's backrest. It is preferred that the operator is facing across the direction of travel; and
- (e) The operator station **must** be provided with two rear vertical posts that are installed on both sides of the operator's compartment extending to the overhead guard in order to provide additional protection against incidental intrusions in the operator compartment.

3.7. **Chassis - Commercially Equipped**

3.8. **Motors - Commercially Equipped**

3.9. **Transmission - Commercially Equipped**

3.10. **Brake System**

- (a) The brake system **must** conform to CSA B335; and
- (b) The brakes **must** be provided with a dead-man type service brake, automatically applied upon removal of operator's foot from the pedal.

3.11. **Steering - Commercially Equipped**

3.12. **Tires – Commercially Equipped**

3.13. **Controls** - The vehicle **must** be provided with a safety device ensuring that the engine can only be started with the transmission in a neutral position.

3.14. **Instruments** - The instruments **must** be provided with an hour-meter with numerical read-out which records accumulated running time up to 9,999 hours and a battery state-of-charge indicator with lift interrupt.

3.14.1. **Instruments Features and Accessories** - The following accessories, attachments and features **must** be provided, when requested:

(a) **Weigh Scale**

- i. The vehicle **must** be provided with a weigh scale with 2 percent accuracy at forklift capacity; and
- ii. The weigh scale **must** be provided with a digital readout with zeroing capability.

3.15. **Electrical System**

- (a) The vehicle **must** be provided with an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries **must** have a capacity of at least "**BATTERY CAPACITY**" as given in the A.1 - Data Table (Appendix A);
- (c) The vehicle **must** be provided with a backup alarm to alert personnel that the vehicle is in backup mode; and
- (d) The vehicle **must** be provided with battery compartment rollers to allow the rapid changing of the batteries.

3.15.1. **Electrical Features and Accessories** - The following accessories, attachments and features **must** be provided, when requested:

- (a) **220 V, Single Phase Charger** - A charger **must** be supplied for connection to a 220-volt, single phase, 60Hz power source;
- (b) **220 V, 3 Phase Charger** - A charger **must** be supplied for connection to a 220-volt, three phase, 60Hz power source;
- (c) **440 V, 3 Phase Charger** - A charger **must** be supplied for connection to a 440-volt, three phase, 60Hz power source;
- (d) **550 V, 3 Phase Charger** - A charger **must** be supplied for connection to a 550-volt, three phase, 60Hz power source; and
- (e) **Battery Watering System**
 - i. The vehicle **must** be provided with a battery watering system;
 - ii. The battery watering system **must** be supplied with a removable hose; and
 - iii. The removable hose **must** be provided with a quick connect coupler.

3.16. **Lighting**

- (a) **Flashing Beacon**
 - i. The vehicle **must** be provided with a red flashing beacon light mounted on the rear of the vehicle; and
 - ii. The beacon **must** be activated when the vehicle travels in reverse.
- (b) **Working Lights** – The vehicle **must** be provided with at least 2 working lights on the front.

3.17. **Hydraulic System - Commercially Equipped**

3.18. **Lubricants and Hydraulic Fluids**

- (a) The vehicle **must** operate using synthetic non-proprietary lubricants and hydraulic fluids; and

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- (b) Grease fittings provided on the vehicle **must** conform to SAE J534.
- 3.19. **Paint - Commercially Equipped**
- 3.20. **Identification** - The manufacturer's name, model and vehicle serial number **must** be permanently marked in a conspicuous and protected location.
- 3.21. **Vehicle Delivery Condition**
- (a) The vehicle **must** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **must** be cleaned;
 - (b) If the vehicle requires assembly at destination, the Contractor **must** be responsible for all manpower and equipment to perform assembly;
 - (c) The space for assembly at destination will be provided, if required;
 - (d) For shipment verification, items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose, **must** be listed on the shipping certificate or to an attached packing note; and
 - (e) Lubricants installed in the vehicle at time of delivery **must** be suitable for the destination and the season of delivery.

4. **INTEGRATED LOGISTICS SUPPORTS (ILS)**

4.1 **Documentation and Support Items**

4.1.1 **Items Provided to Technical Authority**

(a) **Manuals for Approval**

- i. The Contractor **must** supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, a set of manuals for each Configuration/model, in digital format, including the operator, parts and maintenance (shop repair) manuals. Manuals may cover more than one (1) Configuration/model;
- ii. The set of manuals **must** include manuals for all the specified accessories and features for the Configuration/model. Accessory manuals may be included as supplements to the vehicle manuals;
- iii. The operator manuals **must** be supplied in a bilingual format as a package;
- iv. Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection;
- v. Digital copies **must** be supplied on a CD or DVD;
- vi. Digital copies **must** be supplied in a searchable PDF format;
- vii. The CD or DVD **must** be permanently and legibly marked with a list of contents;
- viii. Manual approval or comments will be supplied within 15 working days of receipt;
- ix. The Contractor must supply responses to the Technical Authority's (TA) comments. If comments are acceptable, the TA will approve the manuals;
- x. Manuals will not be returned; and
- xi. Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Photographs and Line Drawings**

- i. The Contractor **must** supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration/Model;

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- ii. One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
 - iii. One (1) front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
 - iv. Photographs **must** have a plain background;
 - v. Photographs **must** be in a JPEG (*Joint Photographic Experts Group*) format; and
 - vi. Photographs **must** have a resolution of at least eight (8) Mega pixels.

(c) **Data Summary**

- i. The Contractor **must** supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, a bilingual data summary for each Configuration/model, with vehicle data (including accessories and features) and a vehicle picture;
- ii. The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
- iii. The Contractor **must** supply a digital copy (MS Word) of the completed data summary for approval;
- iv. Data summary approval or comments will be supplied within 15 working days of receipt; and
- v. The Contractor **must** supply responses to the **Technical Authority's** comments.

(d) **Safety Data Sheets**

- i. The Contractor **must** supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, a list, in digital format, of all hazardous materials used on the vehicle;
- ii. If there are no hazardous materials used, this **must** be stated on the list; and
- iii. The Contractor **must** supply safety data sheets in both official languages, in digital PDF format for all hazardous materials in the list

(e) **Warranty Letter**

- i. The **Technical Authority** will supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, a bilingual warranty letter template to the Contractor;

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- ii. The Contractor **must** supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
 - iii. The warranty letter **must** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
 - iv. The Contractor **must** supply the original warranty letter in digital format, for each vehicle delivered, to the **Technical Authority**.
- (f) **Initial Parts Kit List**
- i. The Contractor **must** supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, a list of parts needed to perform preventive maintenance on one (1) vehicle for a period of one (1) year in accordance with the maintenance manual for each Configuration/Model;
 - ii. A complete change of all filters and filter elements **must** be included in the list; and
 - iii. The list **must** include the following elements: part description; Original Equipment Manufacturer (OEM) Part number; suggested quantity; and unit cost.
- (g) **Training Plan(s)** - The Contractor **must** supply, no later than thirty (30) days prior to the forklift(s) being shipped to their delivery destination, a training plan for approval for each of the training courses listed in this purchase description to the **Technical Authority**. Approval or comments will be supplied within 15 working days of receipt of the training plan.

4.1.2 **Items with Each Vehicle**

- (a) **Operator's Manual** - The Contractor **must** supply an approved bilingual operator's manual in both paper and digital format with each vehicle delivered;
- (b) **Warranty Letter** - The Contractor **must** supply a copy of the warranty letter with each vehicle delivered;
- (c) **Safety Data Sheets**
 - i. The Contractor **must** supply a set of safety data sheets; and
 - ii. The safety data sheets **must** be the same as those supplied to the **Technical Authority** as described in the purchase description.
- (d) **Initial Parts Kit**
 - i. One (1) initial parts kit **must** be supplied; and
 - ii. The initial parts kit **must** include a set of parts in the approved initial parts kit list as described in this purchase description.

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- (e) **Maintenance Manual**
 - i. The Contractor **must** supply the approved maintenance (shop repair) manuals in paper and digital format in English required for the maintenance and repair of the vehicle, features and accessories; and
 - ii. The Contractor may supply this deliverable as a bilingual package
 - (f) **Parts Manual**
 - i. The Contractor **must** supply the approved parts manuals for the vehicle, features and accessories;
 - ii. The parts manual **must** be supplied in English in paper and digital format;
 - iii. It is desirable to supply the parts manual in French in addition to the English version; and
 - iv. Digital parts manuals **must** be supplied in a searchable PDF format CD/DVD-ROM.
 - (g) **Keys** – The vehicle must be provided with two (2) sets of keys.

4.2

Training

- (a) **Training – Familiarization**
 - i. The Contractor **must** supply a familiarization course, at the delivery destination, optimized for operators and technicians who are qualified on the vehicle type but require training on newer or unique features and sub-systems of the delivered model;
 - ii. The instructor **must** be an OEM Factory Certified Training Provider;
 - iii. The course **must** be delivered in the official language (English or French) specified in the contract for that delivery destination;
 - iv. **Curriculum**
 - 1. The familiarization course **must** include operation and maintenance segments;
 - 2. The operation segment **must** include safety precautions to be observed while operating and servicing the vehicle, vehicle operating characteristics, pre-operating and shutdown procedures and daily/weekly operator servicing procedures;
 - 3. The operation segment **must** include sub-systems including container handling attachment, automatic grease system and pre-heaters; and

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4. The maintenance segment **must** include diagnostics, trouble shooting and operation of any special tools and test equipment (if any).
 - v. The familiarization course **must** have a minimum duration of eight (8) hours, divided into four (4) hours for operators and four (4) hours for technicians;
 - vi. The familiarization course **must** accommodate up to eight (8) personnel; four (4) operators and four (4) technicians;
 - vii. The date for the familiarization course **must** be arranged with the **Technical Authority**;
 - viii. After completion of the familiarization course, the Contractor **must** have the “**PROOF OF FAMILIARIZATION**” certificate signed by the senior course attendee; and
 - ix. The **Technical Authority** will supply the “**PROOF OF FAMILIARIZATION**” document template in a digital format.

(b) **Training – Troubleshooting**

- i. When requested, the Contractor **must** supply a troubleshooting course in the official language (English or French) specified in the contract for that delivery destination;
- ii. The instructor **must** be an OEM Factory Certified Training Provider;
- iii. The troubleshooting course **must** include detailed testing, troubleshooting, problem analysis and adjustments training
- iv. The troubleshooting course **must** have a minimum duration of twenty four (24) hours but not exceeding eight (8) hours a day;
- v. The troubleshooting course **must** accommodate up to eight (8) maintenance personnel;
- vi. The troubleshooting course **must** be supplied at the delivery destination;
- vii. The date for the troubleshooting course **must** be arranged with the **Technical Authority**;
- viii. After completion of the troubleshooting course, the Contractor **must** have the “**PROOF OF TROUBLESHOOTING TRAINING**” certificate signed by the senior course attendee; and
- ix. The **Technical Authority** will supply the “**PROOF OF TROUBLESHOOTING TRAINING**” document template in a digital format.

4.3 **ILS Data Deliverables Summary** - This table is for quick reference only. All detailed requirements to be met are contained under Paragraph 4 - Integrated Logistics Support.

Item	Format	Delivered to TA by E-mail	Delivered to TA by mail/courier	Copy with Vehicle	Remarks
Photographs and Line Drawings	Digital	x	-	-	
Data Summary	Digital	x	-	-	TA will provide template
Initial Parts Kit List *	Digital	x	-	-	
Warranty Letter	Digital	x	-	-	TA will provide template
	Paper**	-	-	x	
Listing of HAZMAT and Safety Data Sheets French and English	Digital	x	-	-	
	Paper**	-	-	x	
Operator Manual(s) Bilingual	Digital	-	x	x	On CD/DVD *
	Paper**	-	-	x	
Maintenance (shop repair) Manual(s) English	Digital	-	x	x	On CD/DVD *
	Paper**	-	-	x	
Maintenance (shop repair) Manual(s) French	Digital	-	x	x	On CD/DVD *
	Paper**	-	-	x	
Parts Manual(s)	Digital	-	x	x	On CD/DVD *
	Paper**	-	-	x	
The items below <i>must</i> be provided only if training is requested in the bid solicitation/contract.					
Training Plan/Curriculum	Digital	x	-	-	For each type of course required.
Proof of Familiarization Course Certificate	Digital	x	-	-	PA will provide template

Notes: *Although a separate CD/DVD *must* be used for each Configuration, a single CD/DVD should ideally be used for all e-manuals covering a specific Configuration and its accessories.

** Paper copy *must* have identical content as the electronic copy approved by the TA.

APPENDIX A

A.1. Data Table

The following table shows required performance and dimensions for each Configuration with paragraph references.

CHARACTERISTIC			PARAGRAPH	UNITS	CONFIGURATION		
					A	B	C
LIFT CAPACITY			3.4.1 (a)	kg	1,585	1,810	2,040
				lbs	3,500	4,000	4,500
STANDARD MAST	LIFT HEIGHT		3.4.1 (b)	mm	4,720	4,720	4,720
				in	186	186	186
	VEHICLE HEIGHT			mm	2,275	2,275	2,275
				in	89.5	89.5	89.5
FORK LENGTH			3.5 (b)	mm	1,067	1,067	1,067
				in	42	42	42
MAST 2	LIFT HEIGHT		3.5.1 (a)	mm	3,810	3,810	3,810
				in	150	150	150
	VEHICLE HEIGHT			mm	2,160	2,160	2,160
				in	85	85	85
MAST 3	LIFT HEIGHT		3.5.1 (b)	mm	5,180	5,180	5,180
				in	204	204	204
	VEHICLE HEIGHT			mm	2,415	2,415	2,415
				in	95	95	95
MAST 4	LIFT HEIGHT		3.5.1 (c)	mm	5,635	5,635	5,635
				in	222	222	222
	VEHICLE HEIGHT			mm	2,545	2,545	2,545
				in	100	100	100
MAST 5	LIFT HEIGHT		3.5.1 (d)	mm	6,095	6,095	6,095
				in	240	240	240
	VEHICLE HEIGHT			mm	2,160	2,160	2,160
				in	85	85	85
BATTERY CAPACITY			3.15 (b)	kWh	26	26	26

A.2. Feature and Accessory Table

The following table indicates, with "X", for each configuration the accessories, attachments and features that *must* be provided when specified in the solicitation, with a clause reference.

DESCRIPTION	PARAGRAPH	CONFIGURATION		
		A	B	C
"EE" Safety Rating Feature	3.3.5	X	X	X
Mast no. 2	3.5.1 (a)	X	X	X
Mast no. 3	3.5.1 (b)	X	X	X
Mast no. 4	3.5.1 (c)	X	X	X
Mast no. 5	3.5.1 (d)	X	X	X
Side Shifter	3.5.1 (e)	X	X	X
Fire extinguisher	3.5.1 (f)	X	X	X
Weigh Scale	3.14.1 (a)	X	X	X
220 V, Single phase charger	3.15.1 (a)	X	X	X
220 V, 3 phase charger	3.15.1 (b)	X	X	X
440 V, 3 phase charger	3.15.1 (c)	X	X	X
550 V, 3 phase charger	3.15.1 (d)	X	X	X
Battery watering system	3.15.1 (e)	X	X	X
Signal Lights	3.16.1 (a)	X	X	X
Additional Working Lights	3.16.1 (b)	X	X	X
Initial Parts Kit	4.1.1 (f)	X	X	X
Manuals for Approval	4.1.1 (a)	X	X	X
Maintenance Manual	4.1.2 (e)	X	X	X
Parts Manuals	4.1.2 (f)	X	X	X
Training – Familiarization	4.2 (a)	X	X	X
Training – Troubleshooting	4.2 (b)	X	X	X



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

TECHNICAL EVALUATION CRITERIA

For

Group 3A: Reach and Tiering, Stand-Up Rider, Electric Motor Driven Forklift Truck

This questionnaire covers technical information, which **must** be provided for evaluation of the Configurations of the vehicle offered.

Where the specification paragraphs below indicate “**Substantial information**”, the “**Substantial information**” **must** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Substantial information** can be found.

SUPPLIER INFORMATION

Supplier Name:

Supplier Address:

Submission Date:

Substitutes/Alternatives

Are any substitutes/alternatives offered as **Equivalent**? YES NO

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents** below:

Table of Technical Evaluation Criteria				
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
3.1.1	The vehicle must 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 one (1) year	Vehicle Make	document	
		Vehicle Model and Year Introduced	document	Config A: Config B: Config C:
3.3.2	All vehicle design, construction and safety aspects must be in accordance with the latest edition of ANSI/ITDSF B56.1	Manufacturing standard	certificate or OEM brochure	Config A: Config B: Config C:
3.3.5 (a)	The vehicle must be manufactured to meet the requirements of an “EE” safety rating in accordance with Standard UL 583, or an Equivalent , in lieu of the “E” safety rating (paragraph 3.3.4)	Fire Safety standard	certificate or OEM brochure	Config A: Config B: Config C:
3.4.1(a)	The vehicle, with the standard mast and no accessories, must have a load capacity, at a 610 mm load centre, of at least that given as “LIFT CAPACITY” in the A.1 - Data Table (Appendix A)	Capacity/load center	lbs/inch	Config A: Config B: Config C:

Table of Technical Evaluation Criteria				
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
3.4.1(b)	The vehicle must have a lift height of at least that given as “ STANDARD MAST - LIFT HEIGHT ” in the A.1 - Data Table (Appendix A), when measured from the floor to the top surface of the forks in the full-up position	Lift height	inch	Config A: Config B: Config C:
3.4.1(c)	The vehicle, with the standard mast in its lowest position, must pass under a horizontal beam with a height above ground level of that given as “ STANDARD MAST - VEHICLE HEIGHT ” in the A.1 - Data Table (Appendix A)	overall vehicle height	inch	Config A: Config B: Config C:
3.4.1(d)	The vehicle must have a reach depth of at least that given as “ REACH ” in the A.1 - Data Table (Appendix A)	Reach	inch	Config A: Config B: Config C:
3.5(d)-i	The vehicle must be provided with straddle legs with a separation, in increments, covering a range of at least that given as “ MINIMUM SEPARATION ” and “ MAXIMUM SEPARATION ” in the A.1 - Data Table (Appendix A)	Maximum and minimum separation	inch	Config A: Config B: Config C:

Table of Technical Evaluation Criteria				
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
3.5.1(a)-iii	Mast no. 2 must have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “ MAST 2 ” – “ LIFT HEIGHT ” in the A.1 - Data Table (Appendix A)	lift height	Inch	Config A: Config B: Config C:
3.5.1(a)-iv	The vehicle, with mast no. 2 in its lowest position, must pass under a horizontal beam with a height above ground level of that given as “ MAST 2 ” – “ VEHICLE HEIGHT ” in the A.1 - Data Table (Appendix A)	vehicle height	Inch	Config A: Config B: Config C:
3.5.1(b)-iii	Mast no. 3 must have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “ MAST 3 ” – “ LIFT HEIGHT ” in the A.1 - Data Table (Appendix A)	lift height	Inch	Config A: Config B: Config C:
3.5.1(b)-iv	The vehicle, with mast no. 3 in its lowest position, must pass under a horizontal beam with a height above ground level of that given as “ MAST 3 ” – “ VEHICLE	vehicle height	Inch	Config A: Config B: Config C:



Table of Technical Evaluation Criteria				
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
	HEIGHT ” in the A.1 - Data Table (Appendix A)			
3.5.1(c)-iii	Mast no. 4 must have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “MAST 4” – “LIFT HEIGHT” in the A.1 - Data Table (Appendix A)	lift height	Inch	Config A: Config B: Config C:
3.5.1(c)-iv	The vehicle, with mast no. 4 in its lowest position, must pass under a horizontal beam with a height above ground level of that given as “MAST 4” – “VEHICLE HEIGHT” in the A.1 - Data Table (Appendix A)	vehicle height	Inch	Config A: Config B: Config C:
3.5.1(d)-iii	Mast no. 5 must have a lift height, measured from the floor to the top surface of the forks in the full-up position, of at least that given as “MAST 5” – “LIFT HEIGHT” in the A.1 - Data Table (Appendix A)	lift height	Inch	Config A: Config B: Config C:
3.5.1(d)-iv	The vehicle, with mast no. 5 in its lowest position, must pass under a horizontal beam with a height above ground level of that given as “MAST 5” – “VEHICLE HEIGHT” in the A.1 - Data Table (Appendix A)	vehicle height	Inch	Config A: Config B: Config C:

Table of Technical Evaluation Criteria				
PD Reference	Requirement	Substantial Information required	Value	Location of Substantial Information in Bid Proposal
3.5.1(e)	The vehicle must be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 mm (2 inches) to either side of the centreline.	Side-shift	Inch	Config A: Config B: Config C:
3.15 (b)	Batteries must have a capacity of at least " BATTERY CAPACITY " as given in the A.1 - Data Table (Appendix A).	Battery Capacity	kWh	Config A: Config B: Config C:

DEFINITIONS

The following definition(s) apply to the interpretation of this Technical Evaluation Criteria (TEC):

- (a) "**Equivalent**" **must** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement, in writing, as meeting the specified requirements for fit, form, function and performance