



**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 0B2 / Noyau 0B2  
Gatineau, Québec K1A 0S5  
Bid Fax: (819) 997-9776**

**Request For a Standing Offer  
Demande d'offre à commandes**

National Master Standing Offer (NMSO)  
Offre à commandes principale et nationale (OCPN)

Canada, as represented by the Minister of Public Works and  
Government Services Canada, hereby requests a Standing Offer  
on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et  
Services Gouvernementaux Canada, autorise par la présente,  
une offre à commandes au nom des utilisateurs identifiés  
énumérés ci-après.

**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> NMSO for Forklift.	
<b>Solicitation No. - N° de l'invitation</b> E60HS-15FRKL/A	<b>Date</b> 2016-01-25
<b>Client Reference No. - N° de référence du client</b> E60HS-15FRKL	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$\$HS-634-68913
<b>File No. - N° de dossier</b> hs634.E60HS-15FRKL	<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 2016-03-07</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST	
<b>Delivery Required - Livraison exigée</b> See Herein	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Paquin, Benoit	<b>Buyer Id - Id de l'acheteur</b> hs634
<b>Telephone No. - N° de téléphone</b> (873)469-3401 ( )	<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>  Specified Herein Précisé dans les présentes	
<b>Security - Sécurité</b> This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

---

## TABLE OF CONTENTS

<b>PART 1 - GENERAL INFORMATION .....</b>	<b>3</b>
1.1 INTRODUCTION.....	3
1.2 SUMMARY .....	3
1.3 DEBRIEFINGS .....	4
<b>PART 2 - OFFEROR INSTRUCTIONS .....</b>	<b>5</b>
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	5
2.2 OFFERORS' CONFERENCE .....	5
2.3 SUBMISSION OF OFFERS .....	5
2.4 IMPROVEMENT OF REQUIREMENT DURING SOLICITATION PERIOD .....	5
2.5 ENQUIRIES - REQUEST FOR STANDING OFFERS .....	6
2.6 APPLICABLE LAWS.....	6
<b>PART 3 - OFFER PREPARATION INSTRUCTIONS .....</b>	<b>7</b>
3.1. OFFER PREPARATION INSTRUCTIONS.....	7
<b>PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION.....</b>	<b>10</b>
4.1 EVALUATION PROCEDURES.....	10
4.2 BASIS OF SELECTION.....	12
<b>PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION .....</b>	<b>13</b>
5.1 CERTIFICATIONS REQUIRED WITH THE OFFER .....	13
5.2 CERTIFICATIONS PRECEDENT TO THE ISSUANCE OF A STANDING OFFER AND ADDITIONAL INFORMATION....	13
<b>PART 6 - FINANCIAL REQUIREMENTS .....</b>	<b>16</b>
6.1 FINANCIAL CAPABILITY .....	16
<b>PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES .....</b>	<b>17</b>
<b>A. STANDING OFFER.....</b>	<b>17</b>
7.1 OFFER.....	17
7.2 SECURITY REQUIREMENTS.....	17
7.3 STANDARD CLAUSES AND CONDITIONS .....	17
7.4 TERM OF STANDING OFFER .....	18
7.5 AUTHORITIES .....	18
7.6 IDENTIFIED USERS.....	19
7.7 CALL-UP INSTRUMENT .....	19
7.8 LIMITATION OF CALL-UPS .....	19
7.9 PRIORITY OF DOCUMENTS .....	20
7.10 CERTIFICATIONS .....	20
7.11 APPLICABLE LAWS.....	20
7.12 FACTORY CERTIFIED WARRANTY PROVIDERS .....	20
7.13 TECHNICAL CHANGES, SUBSTITUTES AND ALTERNATIVES .....	21
7.14 SUBSTITUTE MODEL .....	21
7.15 MEETING AFTER ISSUANCE OF STANDING OFFER .....	21
7.16 PROGRESS MEETINGS.....	21
7.17 CUSTOMER SUPPORT PACKAGE (CSP) .....	21
<b>B. RESULTING CONTRACT CLAUSES .....</b>	<b>22</b>
7.1 REQUIREMENT .....	22
7.2 STANDARD CLAUSES AND CONDITIONS .....	22
7.3 TERM OF CONTRACT .....	22

---

7.4	PAYMENT .....	22
7.5	HOLDBACK .....	24
7.6	INVOICING INSTRUCTIONS .....	24
7.7	SACC MANUAL CLAUSES .....	24
7.8	SHIPPING INSTRUCTIONS.....	25
7.9	DELIVERIES FOR INTEGRATED LOGISTIC ITEMS.....	26
7.10	FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - DEFAULT BY THE CONTRACTOR.....	27
<b>ANNEX A – GROUP 1 - SIT DOWN RIDER FORKLIFTS, PROPANE/DIESEL .....</b>		<b>28</b>
<b>ANNEX B – GROUP 2 - ELECTRIC SIT DOWN FORKLIFTS .....</b>		<b>29</b>
<b>ANNEX C – GROUP 3 - STAND UP RIDER FORKLIFTS .....</b>		<b>30</b>
<b>ANNEX D – GROUP 4 - WALKIE STACKERS.....</b>		<b>31</b>
<b>ANNEX E – GROUP 7 - PALLET JACKS .....</b>		<b>32</b>
<b>ANNEX F – PRICING .....</b>		<b>33</b>
<b>ANNEX G - PRICE ADJUSTMENT FOR EXTENDED PERIODS .....</b>		<b>34</b>
<b>ANNEX H - LIST OF FACTORY CERTIFIED WARRANTY PROVIDERS (FCWP) .....</b>		<b>35</b>
<b>ANNEX I – DELIVERY.....</b>		<b>39</b>
<b>ANNEX J - FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION ....</b>		<b>42</b>

## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;
- Part 3 Offer Preparation Instructions: provides Offerors with instructions on how to prepare their offer to address the evaluation criteria specified;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by Offerors; and
- Part 7 7A, Standing Offer, and 7B, Resulting Contract Clauses:
  - 7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;
  - 7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include Purchase Description, Technical Information Questionnaire, Pricing, Price Adjustment for Extended Periods, List of Factory Certified Warranty Providers, Delivery and Federal Contractors Program for Employment Equity – Certification.

### **1.2 Summary**

This requirement is to establish a National Master Standing Offer (NMSO) for the purchase of Forklift Trucks, in accordance with the Purchase Descriptions, the Technical Information Questionnaires and the Pricing.

This requirement is for an initial period of one (1) years from the effective date of the Standing Offer, with an option to extend the offer by two (2) additional periods of one (1) year.

Any resulting Standing Offer shall be for delivery requirements to locations within Canada, including locations within Comprehensive Land Claims Settlement Areas (CLCSA).

Offerors do not have to submit an offer for all groups. However, Offerors submitting an offer for a group must submit an offer for all items of that group.

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

The Federal Contractors Program (FCP) for employment equity applies to this procurement; see Part 5 - Certifications, Part 7A -Standing Offer, and Part 7B - Resulting Contract Clauses and the annex titled [Federal Contractors Program for Employment Equity - Certification](#).

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

### **1.3 Debriefings**

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

## **PART 2 - OFFEROR INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

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

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The 2006 (2015-07-03) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of 2006, Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days  
Insert: ninety (90) days

### **2.2 Offerors' Conference**

An Offerors' conference will be held at the following location:

Place du Portage Phase III, Tower A  
14th Floor, 14A2 - Room 113  
11 Laurier Street, Gatineau, Quebec  
Gatineau, QC

**Date: Monday February 8, 2016**

The Offerors' conference will begin at 9:30 a.m. and last until 12:00 p.m. The scope of the requirement outlined in the RFSO will be reviewed during the conference and questions will be answered. It is recommended that Offerors who intend to submit an offer attend or send a representative.

Offerors are requested to communicate with the Standing Offer Authority before the conference to confirm attendance. Offerors should provide, in writing, to the Standing Offer Authority, the name of the person(s) who will be attending and a list of issues they wish to table at least five (5) working days before the scheduled conference.

Any clarifications or changes to the RFSO resulting from the Offerors' conference will be included as an amendment to the RFSO. Offerors who do not attend will not be precluded from submitting an offer.

### **2.3 Submission of Offers**

Offers 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 Request for Standing Offers.

### **2.4 Improvement of Requirement During Solicitation Period**

Should Offerors consider that the Purchase Description contained in the RFSO could be improved technically or technologically, Offerors are invited to make suggestions, in writing, to the Standing Offer Authority named in the RFSO. Offerors 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 Offeror will be given consideration provided they are submitted to the Standing Offer Authority at least seven (7) calendar

days before the RFSO closing date and time. Canada will have the right to accept or reject any or all suggestions.

## **2.5 Enquiries - Request for Standing Offers**

All enquiries must be submitted in writing to the Standing Offer Authority no later than than seven (7) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by Offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that Offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Offerors. Enquiries not submitted in a form that can be distributed to all Offerors may not be answered by Canada.

## **2.6 Applicable Laws**

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 Offerors.

## **PART 3 - OFFER PREPARATION INSTRUCTIONS**

### **3.1. Offer Preparation Instructions**

Canada requests that offerors provide their offer in separately bound sections as follows:

- Section I: Technical Offer (2 hard copy and 1 soft copy on Universal Serial Bus (USB) flash drive, Digital Versatile Disc (DVD) or Compact Disc (CD)).
- Section II: Financial Offer (1 hard copy and 1 soft copy on USB flash drive, DVD or CD).
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

Prices must appear in the financial offer only. No prices must be indicated in any other section of the offer.

Canada requests that Offerors follow the format instructions described below in the preparation of their offer.

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to that of the Request for Standing Offers.

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

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

Offerors do not have to submit an offer for all groups. However, Offerors submitting an offer for a group must submit an offer for all items of that group.

#### **3.1.1 Substitutes and Alternatives**

Offerors may propose substitutes and alternatives where "Equivalent" is indicated in the technical requirement description (Purchase Description).

1. Substitutes and alternatives that are equivalent in form, fit, function, quality and performance will be considered where the Offerors:

- (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 if:
- (a) The offer 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. In conducting the evaluation of offers, Canada may, but will have no obligation to request the Offerors offering a substitute and/or an alternative, to provide a copy of the alternative standard and to demonstrate, at the Offeror's sole cost, that it is equivalent to the technical requirement.

## Section II: Financial Offer

Offerors must submit their financial offer in accordance with the Basis of Payment detailed in Part 7B, Annex F - Pricing and Annex G – Price Adjustment for the Extended Periods.

### 3.1.2 Exchange Rate Fluctuation

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

Offerors must submit the certifications required under Part 5.

### Section IV: Additional Information

Canada requests that Offerors submit the following information:

#### 3.1.3 Offerors Representatives

Canada requests that Offerors provide information for the contact person responsible for:

##### General enquiries

Name: \_\_\_\_\_  
Telephone No. \_\_\_\_\_  
Facsimile No. \_\_\_\_\_  
E-mail address: \_\_\_\_\_

##### Delivery follow-up

Name: \_\_\_\_\_  
Telephone No. \_\_\_\_\_  
Facsimile No. \_\_\_\_\_  
E-mail address: \_\_\_\_\_

#### 3.1.4 Manufacturer's Standard Warranty Period

Canada requests that Offerors provide details of the Original Equipment Manufacturer (OEM) standard warranty period for the vehicle/equipment and its component that exceeds the minimum warranty period of twelve (12) months, or two thousand (2000) hours of usage, whichever comes first". Any additional manufacturer's standard warranty such as those derived from the OEM for component/sub-assemblies will form part of any resulting Standing Offer and resulting Contracts.

#### 3.1.5 Delivery

While delivery of the equipment/vehicle is requested within one hundred and twenty (120) calendar days after receipt of a Call-Up against the Standing Offer, Offerors are requested to provide the best delivery that can be offered, in Annex I- Delivery.

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

### **4.1 Evaluation Procedures**

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria - Proof of Compliance**

Offerors submitting an offer for Group 1A and Group 1B must submit, with the offer, all Proof of Compliance required in Appendices A3 and A4 of Annex A – Group 1 - Sit down rider forklifts, propane/diesel.

Offerors submitting an offer for Group 2A and Group 2B must submit, with the offer, all Proof of Compliance required in Appendices B3 and B4 of Annex B – Group 2 - Electric sit down forklifts.

Offerors submitting an offer for Group 3A and Group 3B must submit, with the offer, all Proof of Compliance required in Appendices C3 and C4 of Annex C – Group 3 - Stand up rider forklifts.

Offerors submitting an offer for Group 4A, Group 4B and Group 4C must submit, with the offer, all Proof of Compliance required in Appendices D4, D5 and D6 of Annex D – Group 4 - Walkie.

Offerors submitting an offer for Group 7A and Group 7B must submit, with the offer, all Proof of Compliance required in Appendices E3 and E4 of Annex E – Group 7 - Pallet jacks.

##### **4.1.1.2 Mandatory Technical Criteria - Technical Information Questionnaire**

Offerors submitting an offer for Group 1A and Group 1B must indicate on Annex A – Group 1 - Internal combustion sit down forklifts Appendix A3 and A4 the Make and Model of the vehicle/equipment offered and if Substitutes and/or Alternatives are offered and submit it with their offer.

Offerors submitting an offer for Group 2A and Group 2B must indicate on Annex B – Group 2 - Electric sit down forklifts Appendix B3 and B4 the Make and Model of the vehicle/equipment offered and if Substitutes and/or Alternatives are offered and submit it with their offer.

Offerors submitting an offer for Group 3A and Group 3B must indicate on Annex C – Group 3 - Stand up rider forklifts Appendix C3 and C4 the Make and Model of the vehicle/equipment offered and if Substitutes and/or Alternatives are offered and submit it with their offer.

Offerors submitting an offer for Group 4A, Group 4B and Group 4C must indicate on Annex D – Group 4 - Walkie stackers Appendix D4, D5 and D6 the Make and Model of the vehicle/equipment offered and if Substitutes and/or Alternatives are offered and submit it with their offer.

Offerors submitting an offer for Group 7A and Group 7B must indicate on Annex E – Group 7 - Pallet jacks Appendix E3 and E4 the Make and Model of the vehicle/equipment offered and if Substitutes and/or Alternatives are offered and submit it with their offer.

##### **4.1.1.3 Mandatory Technical Criteria - Factory Certified Warranty Providers (FCWP)**

The following information must be provided with the offer for all groups for which Offerors are submitting an Offer:

i) Offerors must provide the information requested on Annex H - List of Factory Certified Warranty Providers (FCWP) Section I. Offerors must identify at least one (1) FCWP per City Center.

Offerors may identify additional FCWP on Annex H - List of Factory Certified Warranty Providers (FCWP) Section II.

ii) The FCWP must be located within one hundred and fifty (150) Kilometers from City Center listed in Annex H - List of Factory Certified Warranty Providers (FCWP);

#### **4.1.1.4 Mandatory Technical Criteria - Offeror's Canadian facilities or Distribution Point**

The following information must be provided with the offer for all groups for which Offerors are submitting an Offer:

Offerors must provide the information requested on Annex I – Delivery section II List of Canadian Facilities or Canadian Distribution Point. Offerors must identify at least one (1) Canadian Facilities or Canadian Distribution Point per Province listed.

Offerors may identify additional Canadian Facilities or Canadian Distribution Point on Annex I – Delivery Section III.

#### **4.1.1.5 Mandatory Technical Criteria - Substitutes and/or Alternatives**

Offerors proposing substitutes and/or alternatives must provide all the information as detailed in Part 3, Section I, 3.1.1 Substitutes and Alternatives for the evaluation.

### **4.1.2 Financial Evaluation**

#### **4.1.2.1 Mandatory Financial Evaluation Criteria**

Offerors must complete Annex F - Pricing in full, for all configurations of each group for which they are submitting an offer.

Offerors must complete Annex G – Price Adjustment for Extended Periods.

The Offer must be in Canadian dollars, FCA Free Carrier at the Offeror's Canadian facilities or the Offeror's Canadian Distribution Point, Incoterms 2000, Canadian Custom Duties and Excise Taxes included where applicable and Applicable Taxes extra.

#### **4.1.2.2 Aggregate Evaluated Price per Group**

For each item, the firm price will be multiplied by the estimated quantity listed in Annex F to determine the evaluated price per item. The sum of all evaluated price per item will determine the evaluated price per group.

The sum of the evaluated prices for Group 1A and Group 1B will determine the evaluated price for Group 1. The evaluated aggregate price for Group 1 will be multiplied by the percentage of increase for the 2 extended periods as per Annex G – Price Adjustment for Extended Periods and added.

The sum of the evaluated prices for Group 2A and Group 2B will determine the evaluated price for Group 2. The evaluated aggregate price for Group 2 will be multiplied by the percentage of increase for the 2 extended periods as per Annex G – Price Adjustment for Extended Periods and added.

The sum of the evaluated prices for Group 3A and Group 3B will determine the evaluated price for Group 3. The evaluated aggregate price for Group 3 will be multiplied by the percentage of increase for the 2 extended periods as per Annex G – Price Adjustment for Extended Periods and added.

---

The sum of the evaluated prices for Group 4A, Group 4B and Group 4C will determine the evaluated price for Group 4. The evaluated aggregate price for Group 4 will be multiplied by the percentage of increase for the 2 extended periods as per Annex G – Price Adjustment for Extended Periods and added.

The sum of evaluated price for Group 7A and Group 7B will determine the evaluated price for Group 7. The evaluated aggregate price for Group 7 will be multiplied by the percentage of increase for the 2 extended periods as per Annex G – Price Adjustment for Extended Periods and added.

#### **4.2 Basis of Selection**

An offer must comply with all the requirements of the Request for Standing Offers and meet all mandatory technical and financial evaluation criteria to be declared responsive.

The responsive offer with the lowest aggregate evaluated price for Group 1 will be recommended for issuance of a standing offer;

The responsive offer with the lowest aggregate evaluated price for Group 2 will be recommended for issuance of a standing offer;

The responsive offer with the lowest aggregate evaluated price for Group 3 will be recommended for issuance of a standing offer;

The responsive offer with the lowest aggregate evaluated price for Group 4 will be recommended for issuance of a standing offer;

The responsive offer with the lowest aggregate evaluated price for Group 7 will be recommended for issuance of a standing offer.

A maximum of five (5) responsive offers will be recommended for issuance of a Standing Offer.

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by Offerors to Canada are subject to verification by Canada at all times. Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

### **5.1 Certifications Required with the Offer**

Offerors must submit the following duly completed certifications as part of their offer.

#### **5.1.1 Declaration of Convicted Offences**

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Offeror must provide with its offer, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

### **5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information**

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

#### **5.2.1 Integrity Provisions – List of Names**

Offerors who are incorporated, including those submitting offers as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Offeror.

Offerors submitting offers as sole proprietorship, as well as those submitting offers as a joint venture, must provide the name of the owner(s).

Offerors submitting offers as societies, firms or partnerships do not need to provide lists of names.

#### **5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification**

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" 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 [Employment and Social Development Canada-Labour's](#) website.

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

Canada will also have the right to terminate the Call-up 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 Offeror must provide the Standing Offer Authority with a completed annex [Federal Contractors Program for Employment Equity - Certification](#), before the issuance of a Standing Offer. If the Offeror is a Joint Venture, the Offeror must provide the Standing Offer Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

### 5.2.3 Additional Certifications Precedent to Issuance of a Standing Offer

#### 5.2.3.1 Product Conformance

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

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

\_\_\_\_\_  
Offeror's authorized representative Signature

\_\_\_\_\_  
Date

#### 5.2.3.2 Factory Certified Warranty Providers (FCWP) Certification

The Offeror certifies that all FCWP are authorized by the Original Equipment Manufacturer to provide warranty repairs for the vehicle/equipment offered.

\_\_\_\_\_  
Offeror's authorized representative signature

\_\_\_\_\_  
Date

#### 5.2.3.3 General Environmental Criteria Certification

The Offeror must select and complete one of the following two certification statements.

A) The Offeror certifies that the Offeror is registered or meets ISO 14001.

\_\_\_\_\_  
Offeror's authorized representative Signature

\_\_\_\_\_  
Date

Or

B) The Offeror certifies that the Offeror meets and will continue to meet throughout the duration of the Standing Offer, a minimum of four (4) out of six (6) criteria identified in the table below.

The Offeror must indicate which four (4) criteria, as a minimum, are met.

<b>Green Practices within the Offeror's organization</b>	<b>Insert a checkmark for each criterion that is met</b>
Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

\_\_\_\_\_  
Offeror's authorized representative Signature

\_\_\_\_\_  
Date



Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

## **PART 6 - FINANCIAL REQUIREMENTS**

### **6.1 Financial Capability**

SACC Manual clause M9033T (2011-05-16) Financial Capability

## **PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES**

### **A. STANDING OFFER**

#### **7.1 Offer**

The Offeror offers to fulfill the requirement in accordance with the following Annexes and their Appendix:

Annex A – Group 1 - Internal combustion sit down forklifts and its Appendix.  
Annex B – Group 2 - Electric sit down forklifts and its Appendix.  
Annex C – Group 3 - Stand up rider forklifts and its Appendix.  
Annex D – Group 4 - Walkie stackers and its Appendix.  
Annex E – Group 7 - Pallet jacks and its Appendix.  
Annex F – Pricing  
Annex G – Price Adjustment for Extended Periods  
Annex H – List of Factory Certified Warranty Providers (FCWP)  
Annex I - Delivery

The Offeror must supply Forklift Trucks to departments and agencies of the Government of Canada across the country, including to locations within Comprehensive Land Claims Agreements (CLCA), on an as-and-when requested basis.

#### **7.2 Security Requirements**

**7.2.1** There is no security requirement applicable to this Standing Offer.

#### **7.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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.

##### **7.3.1 General Conditions**

2005 (2015-09-03) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

##### **7.3.2 Standing Offers Reporting**

The Offeror must compile and maintain records, on its provision of goods, services or both to the federal government under contracts resulting from the Standing Offer. This data must also include all purchases paid for by a Government of Canada Acquisition Card.

The Offeror must provide this data, in electronic format (Excel spreadsheet format), in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If no goods or services are provided during a given period, the Offeror must still provide a "NIL" report.

The data must be submitted electronically on a quarterly basis to the Standing Offer Authority and the Procurement Authority.

The Quarterly reporting periods are defined as follows:

1st quarter: April 1 to June 30;  
2nd quarter: July 1 to September 30;  
3rd quarter: October 1 to December 31;  
4th quarter: January 1 to March 31.

The reporting requirements includes, but is not limited to, the following information:

- a. Standing Offer Number;
- b. Standing Offer Title and Description;
- c. Reporting Period (Quarter and Per Fiscal Year);
- d. Total Number of Orders and associated value (applicable taxes included) for the Reporting Period (Quarter);
- e. Total Number of Orders and associated value (applicable taxes included) (Per Fiscal Year);
- f. Total Number of Orders and associated value (applicable taxes included) (For the duration of the Standing Offer)

The data must be submitted to the Standing Offer Authority no later than **fifteen (15) calendar days** after the end of the reporting period.

### **7.3.3 Standing Offers - Final Report**

On completion or termination of the National Individual Standing Offer (NISO), the offeror must produce a detailed final report with all cumulative data of the call-ups. Data must also include all purchases paid for by a Government of Canada Acquisition Card.

The final report must be completed and forwarded electronically to the Standing Offer Authority, no later than **thirty (30) calendar days** after the end of the completion or the set-aside of the Standing Offer.

## **7.4 Term of Standing Offer**

### **7.4.1 Period of the Standing Offer**

The period for making call-ups against the Standing Offer is from the effective date of the Standing Offer to **To be inserted by PSPC.**

### **7.4.2 Extension of Standing Offer**

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for two (2) additional periods of one (1) year, under the same conditions and at the rates or prices specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority sixty (60) days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

## **7.5 Authorities**

### **7.5.1 Standing Offer Authority**

The Standing Offer Authority is:

Benoit Paquin  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Logistics, Electrical, Fuel and Transportation Directorate - "HS" Division  
Place du Portage, Phase III, 7B1  
11 Laurier Street  
Gatineau, QC K1A 0S5  
Telephone : 873-469-3401  
Facsimile: 819-956-5227  
E-mail address: benoit.paquin@pwgsc-tpsgc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

### 7.5.2 Technical Authority

The Technical Authority for the Standing Offer is:

#### **To be inserted by PSPC**

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON K1A 0K2  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Technical Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Technical Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

### 7.5.3 Offeror's Representative

#### **General enquiries**

Name: **to be inserted by PSPC**  
Telephone No. :  
Facsimile No.:  
E-mail address:

#### **Delivery follow-up**

Name: **to be inserted by PSPC**  
Telephone No. :  
Facsimile No. :  
E-mail address:

### 7.6 Identified Users

The Identified Users authorized to make call-ups against the Standing Offer include any government department, agency or Crown Corporation listed in Schedules I, I.I, II, III, of the Financial Administration Act, R.S., 1985, c. F-11.

### 7.7 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form PWGSC-TPSGC 942, Call-up Against a Standing Offer or electronic document.

### 7.8 Limitation of Call-ups

For Identified Users, Individual call-ups against the Standing Offer must not exceed \$400,000.00 (Applicable Taxes included).

Requirement exceeding \$400,000.00 (Applicable Taxes included) must be submitted to PSPC Standing Offer Authority in the form of a funded requisition for processing.

## 7.9 Priority of Documents

If there is a discrepancy between the wordings 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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2015-09-03), General Conditions - Standing Offers - Goods or Services
- d) the general conditions 2010A (2015-09-03); General Conditions - Medium Complexity - Goods;
- e) the Annex F - Pricing;
- f) the Annex G – Price Adjustment for Extended Years
- g) the Annex I – Delivery ;
- h) the Annex A – Group 1 - Internal combustion sit down forklifts and its Appendix;
- i) the Annex B – Group 2 - Electric sit down forklifts and its appendix;
- j) the Annex C – Group 3 - Stand up rider forklifts and its appendix
- k) the Annex D – Group 4 - Walkie stackers and its appendix
- l) the Annex E – Group 7 - Pallet jacks and its appendix
- m) the Offeror's offer dated **(to be inserted by PSPC)**, " or ", as amended **(to be inserted by PSPC)**.

## 7.10 Certifications

### 7.10.1 Compliance

The continuous compliance with the certifications provided by the Offeror with its offer and the ongoing cooperation in providing additional information are conditions of issuance of the Standing Offer (SO). Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO. If the Offeror does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

### 7.10.2 Federal Contractors Program for Employment Equity - Setting aside

The Offeror understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Offeror and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Standing Offer. If the AIEE becomes invalid, the name of the Offeror will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC may result in the setting aside of the Standing Offer.

## 7.11 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

## 7.12 Factory Certified Warranty Providers

The Factory Certified Warranty Providers (FCWP) are listed at Annex H - List of Factory Certified Warranty Providers. During the period of the Standing Offer, the Offeror must maintain an up-to-date list and provide a copy of the updated list electronically to the Standing Offer Authority when changes occur. The FCWP must have the facilities and manpower required to perform all warranty repairs on the vehicle/equipment.

The FCWP must be authorized by the OEM to provide warranty repairs for the vehicle and must be located within one hundred and fifty (150) Kilometers from City centers listed in the Annex H - List of Factory Certified Warranty Providers.

During the period of the Standing Offer, the Offeror must replace a FCWP which can no longer provide repairs or when the FCWP is not providing acceptable repairs in accordance with the terms of the Standing Offer.

---

### **7.13 Technical Changes, Substitutes and Alternatives**

During the period of the Standing Offer any technical changes, substitutes and alternatives proposed by the Offeror, as mandated by the manufacturer or legislative body, must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function 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 revision to the Standing Offer or a completed Design Change/Deviation form will be issued.

Should the Technical Authority not accept the substitute or the alternative and the Offeror is unable to meet the technical requirement, Canada may set aside the Standing Offer and/or terminate the contract for Default in accordance with the general conditions stated in the Standing Offer.

### **7.14 Substitute Model**

In the event that a model is discontinued, the Offeror must notify the Standing Offer Authority. The Offeror can offer, through the Standing Offer Authority, a substitute model for acceptance. The substitute model must meet all the technical requirements of the Purchase Description and must be offered at the same price as the model it is replacing in the Standing Offer. An administrative revision will be done in the Standing Offer to reflect the change in model.

Should the substitute model not meet the technical requirement, Canada reserves the right to set aside the Standing Offer and/or terminate the contract for default in accordance with the General Conditions stated in the Standing Offer and the resulting contract.

### **7.15 Meeting after Issuance of Standing Offer**

Within ten (10) calendar days from the effective date of the Standing Offer, the Offeror must contact the Standing Offer Authority to determine if a meeting is required. A meeting will be convened at Canada's discretion to review the procedures for making call-ups, the technical and contractual requirements. The Offeror must prepare and distribute the minutes of the meeting within five (5) calendar days after the meeting has been held. The meeting will be held at the Offeror's facilities, at a federal government department facility or via teleconference, at Canada's discretion, at no additional cost to Canada, with representatives of the Contractor, the Department of National Defence, Public Works and Government Services Canada and other federal government departments as required.

### **7.16 Progress Meetings**

Progress meetings will take place on an as-and-when required basis. The Offeror must prepare and distribute the agenda and minutes of the meeting. The meeting will be held at the Offeror's facilities, at a federal government department facility or via teleconference, at Canada's discretion, at no additional cost to Canada, with representatives of the Offeror, the Department of National Defence, Public Works and Government Services Canada and other federal government departments as required.

### **7.17 Customer Support Package (CSP)**

The CSP must be submitted electronically to the Technical Authority (TA) for approval, within forty-five (45) calendar days after issuance of the Standing Offer. After approval from the TA and upon request from Canada, the Offeror must provide Customer Support Packages (CSP) to assist Identified Users in determining what vehicles/equipment is available from the Standing Offer.

The Customer Support Packages must be provided at no additional cost to Canada.

## **B. RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

### **7.1 Requirement**

The Contractor must provide the items detailed in the call-up against the Standing Offer.

### **7.2 Standard Clauses and Conditions**

#### **7.2.1 General Conditions**

2010A (2015-09-03), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

#### **At section 08, Inspection and Acceptance of the Work**

Delete paragraph 1 in its entirety and replace with the following:

1. All the Work is subject to inspection and acceptance by Canada at destination by the consignee. Inspection and acceptance of the Work by Canada do not relieve the Contractor of its responsibility for defects or other failures to meet the requirements of the Contract. Canada will have the right to reject any work that is not in accordance with the requirements of the Contract and require its correction or replacement at the Contractor's expense.

#### **At section 09, Warranty**

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 twelve (12) months, or two thousand (2000) hours of usage, whichever comes first".

### **7.3 Term of Contract**

#### **7.3.1 Delivery Date**

Delivery of vehicle/equipment must be made in accordance with Annex I – Delivery.

### **7.4 Payment**

#### **7.4.1 Basis of Payment**

In considerations of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid as follows:

##### **7.4.1.1 Basis of Payment for the Initial Period**

Firm prices as specified in Annex F - Pricing, in Canadian dollars, FCA Free Carrier at the Contractor's Canadian facility or the Contractor's Canadian distribution point, Incoterms 2000, Canadian Custom Duties, Excise Taxes included where applicable and Applicable Taxes extra.

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable).

#### 7.4.1.2 Basis of Payment for the Extended Periods

Firm prices as specified in Annex F - Pricing and as revised in accordance with Annex G - Price Adjustment for Extended Periods, in Canadian dollars, FCA Free Carrier at the Contractor's Canadian facility or the Contractor's Canadian distribution point, Incoterms 2000, Canadian Custom Duties, Excise Taxes included where applicable and Applicable Taxes extra.

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable).

#### 7.4.1.3 Basis of Payment for Travel and Living Expenses for Training, and Vehicle Assembly

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 Identified User specified in the call-up against the Standing Offer.

All payments are subject to government audit.

#### 7.4.2 Limitation of Price

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

#### 7.4.3 SACC Manual Clauses

SACC Reference	Title	Date
H1001C	Multiple Payments	2008-05-12

#### 7.4.4 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:

Adjustment = FCC x Qty x ( i<sub>1</sub> - i<sub>0</sub> ) / i<sub>0</sub>  
where formula variables correspond to:

**FCC**

Foreign Currency Component (per unit)

**i<sub>0</sub>**

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

**i<sub>1</sub>**



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 and services, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the call-up is issued. 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.

#### 7.5 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 ancillary items related to such vehicle/equipment/service.
2. Subsequent to delivery, inspection and acceptance of all ancillary 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.

#### 7.6 Invoicing Instructions

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

Each invoice must be supported by:

- (a) a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses.
2. The Contractor is requested to provide invoices in electronic format unless otherwise specified by the Identified User, thereby reducing printed material.
  3. Invoices must be distributed as follows:
    - (a) the original and one (1) copy must be forwarded or emailed to the consignee, or as indicated on the call-up against the Standing Offer, for certification and payment.

#### 7.7 SACC Manual Clauses

SACC Reference	Title	Date
A9049C	Vehicle Safety	2011-05-16
A9006C	Defence Contract (DND only)	2012-07-16
B1505C	Shipment of Hazardous Materials	2006-06-16

---

B7500C	Excess Goods	2006-06-16
C2800C	Priority Rating (DND only)	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors(DND only)	2014-11-27
D2000C	Marking	2007-11-30
D2001C	Labelling	2007-11-30
D2025C	Wood Packaging Materials	2013-11-06
D3010C	Dangerous Goods/Hazardous Products (DND only)	2012-07-16
D3015C	Dangerous Goods/Hazardous Products	2007-11-30
D5545C	ISO 9001:2008 - Quality Management Systems - Requirements (QAC C) (DND only)	2010-08-16
D6010C	Palletization	2007-11-30
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2008-05-12

## 7.8 Shipping Instructions

### 7.8.1 Shipping Instructions for Identified Users (except DND)

1. Delivery will be FCA Free Carrier at the Contractor's Canadian facilities or the Contractor's Canadian Distribution Point, Incoterms 2000. The Contractor must load the goods onto the carrier designated by the identified user. Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the identified user by telephone, facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3. The identified user will be identified in the call-up against the Standing Offer
3. The Contractor must provide the following information to the identified user when arranging for shipment:
  - (a) the call-up number;
  - (b) consignee address (for multiple addresses, goods must be packaged and labeled separately with each consignee address);
  - (c) description of each item;
  - (d) the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
  - (e) actual weight and dimensions of each piece type, including gross weight;
  - (f) full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transportation Association Regulations or the applicable Canadian Dangerous Goods Shipping Regulations, and a copy of the Material Safety Data Sheet.
4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labeling, and the marking of each piece with a Transportation Control Number.
5. The Contractor must not ship the goods before receiving shipping instructions from the identified user contact.
6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.

7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

### **7.8.2 Shipping Instructions for Department of National Defence (DND)**

1. Delivery will be FCA Free Carrier at the Contractor's Canadian facilities or the Contractor's Canadian Distribution Point, Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.

2. Before shipping the goods, the Contractor must contact the DND Inbound Logistics Coordination Center by telephone, facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3. The DND Inbound Logistics Coordination Center will be identified in the call-up against the Standing Offer

3. The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:

- (a) the call-up number;
- (b) consignee address (for multiple addresses, goods must be packaged and labeled separately with each consignee address);
- (c) description of each item;
- (d) the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
- (e) actual weight and dimensions of each piece type, including gross weight;
- (f) full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transportation Association Regulations or the applicable Canadian Dangerous Goods Shipping Regulations, and a copy of the Material Safety Data Sheet.

4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labeling, and the marking of each piece with a Transportation Control Number.

5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.

6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.

7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either thirty (30) days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or thirty (30) days following the delivery date specified in the Contract, whichever is later.

### **7.9 Deliveries for Integrated Logistic Items**

#### **7.9.1 Documents supplied to the Technical Authority**

---

The Contractor must provide the documents specified in the Purchase Description section 4.1.1 to the Technical Authority as follow:

- a) Data Summary: No later than thirty (30) calendar days before delivery of the goods unless previously approved for that configuration/model;
- b) Manuals for approval: No later than thirty (30) calendar days before delivery of the goods unless previously approved for that configuration/model;
- c) Photographs And Line Drawings: No later than thirty (30) calendar days before delivery of the goods unless previously approved for that configuration/model;
- d) Initial Parts Kit List: No later than thirty (30) calendar days before delivery of the goods which includes an initial parts kit unless previously approved for that configuration/model;
- e) Material Safety Data Sheets: No later than thirty (30) calendar days before delivery of the goods unless previously approved for that configuration/model;
- f) Training Plans: No later than thirty (30) calendar days before delivery of the goods which includes training unless previously approved for that configuration/model.

### **7.9.2 Items supplied with each vehicle**

The Contractor must provide the Operator's Manual, the Warranty Letter and the Material Safety Data Sheets specified in the Purchase Description section 4.1.2 with each vehicle upon delivery.

#### **7.9.2.1 Distribution of copies of Warranty Letter**

The Contractor must provide the Warranty Letter to the Technical Authority, the Identified User or the designated contact person at time of delivery in accordance with the Purchases Descriptions.

### **7.9.3 Additional Items**

The Contractor must provide Initial Parts Kit, Paper Maintenance Manual (En/Fr), Digital Maintenance Manual (En/Fr), Paper Parts Manual and Digital Parts Manual specified in the Purchase Description section 4.1.4 with each vehicle upon delivery when requested in the call-up against the Standing Offer.

### **7.9.4 Training**

The Contractor must provide Training Familiarization (En/Fr), Training Maintenance (En/Fr) and Training Troubleshooting (En/Fr) specified in the Purchase Description section 4.2 at destination when requested in the call-up against the Standing Offer within 30 days after delivery of the vehicle

### **7.10 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 Employment and Social Development Canada (ESDC)-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 ESDC will constitute the Contractor in default as per the terms of the Contract.

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

## **Annex A – Group 1 - Sit down rider forklifts, propane/diesel**

The Annex A is composed of the following Appendix:

- Appendix A1: Purchase Descriptions for Group 1A - Truck, Lift, Fork, Propane Engine;
- Appendix A2: Purchase Descriptions for Group 1B - Truck, Lift, Fork, Diesel Engine;
- Appendix A3: Technical Information Questionnaires for Group 1A Configuration A, B, C, D and E
- Appendix A4: Technical Information Questionnaires for Group 1B Configuration A, B, C, D and E



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for propane (LPG) engine powered, 4-wheel, counterbalance, sit down rider type forklift trucks with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this Purchase Description;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement



**FORKLIFT TRUCK, PROPANE (LPG) ENGINE**

as meeting the specified requirements for fit, form, function and performance; and

- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC		PARAGRAPH	UNITS	CONFIGURATION				
				A	B	C	D	E
LIFT CAPACITY		3.4.1 (a)	kg	1,805	2,260	2,715	3,170	3,625
			lbs	4,000	5,000	6,000	7,000	8,000
LOAD CENTRE		3.4.1 (a)	mm	610	610	610	610	610
			inches	24	24	24	24	24
STANDARD MAST - LIFT HEIGHT		3.4.1 (c)	mm	4,720	4,720	4,720	4,720	4,670
			inches	186	186	186	186	184
STANDARD MAST - VEHICLE HEIGHT		3.4.1 (d)	mm	2,290	2,290	2,290	2,340	2,365
			inches	90	90	90	92	93
MAST 2	LIFT HEIGHT	3.5.1 (a)	mm	3,810	3,810	3,810	3,810	3,695
	VEHICLE HEIGHT		inches	150	150	150	150	145.5
MAST 3	LIFT HEIGHT	3.5.1 (b)	mm	2,140	2,140	2,140	2,140	2,365
	VEHICLE HEIGHT		inches	84	84	84	84	93
MAST 3	LIFT HEIGHT	3.5.1 (b)	mm	5,330	5,330	5,330	5,205	5,155
	VEHICLE HEIGHT		inches	210	210	210	205	203
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm	2,795	2,795	2,795	2,795	2,495
	VEHICLE HEIGHT		inches	110	110	110	110	98
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm	5,940	5,940	5,940	5,660	5,500
	VEHICLE HEIGHT		inches	234	234	234	223	216.5
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm	2,925	2,925	2,925	2,925	2,795
	VEHICLE HEIGHT		inches	115	115	115	115	110



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION				
		A	B	C	D	E
"LPS" Safety Rating Feature	3.3.5	X	X	X	X	X
Mast no. 2	3.5.1 (a)	X	X	X	X	X
Mast no. 3	3.5.1 (b)	X	X	X	X	X
Mast no. 4	3.5.1 (c)	X	X	X	X	X
Lift Accumulator	3.5.1 (d)	X	X	X	X	X
Side Shifter	3.5.1 (e)	X	X	X	X	X
Fork Positioning Side Shifter	3.5.1 (f)	X	X	X	X	X
54-inch Forks	3.5.1 (g)	X	X	X	X	X
60-inch Forks	3.5.1 (h)	X	X	X	X	X
Fork Tine Position Guide	3.5.1 (i)	X	X	X	X	X
Cab	3.6.1 (a)	X	X	X	X	X
Suspension Seat	3.6.1 (b)	X	X	X	X	X
Tank Lift Device	3.8.3 (a)	X	X	X	X	X
Dual Load Wheels - Pneumatic	3.12.1 (a)	X	X	X	X	X
Single Load Wheels - Solid	3.12.1 (b)	X	X	X	X	X
Dual Load Wheels - Solid	3.12.1 (c)	X	X	X	X	X
Single Load Wheels - Snow and Mud	3.12.1 (d)	X	X	X	X	X
Dual Load Wheels - Snow and Mud	3.12.1 (e)	X	X	X	X	X
Weigh Scale	3.14.1 (a)	X	X	X	X	X
Signal Lights	3.16.1 (a)	X	X	X	X	X
Additional Working Lights	3.16.1 (b)	X	X	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X	X	X





FORKLIFT TRUCK, PROPANE (LPG) ENGINE

**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 558

Standard for Industrial Trucks, Internal Combustion Engine-Powered  
Underwriters' Laboratories of Canada  
7 Underwriters Road,  
Toronto, Ontario, M1R 3A9  
<http://www.ulc.ca/>

Canada Occupational Health and Safety Regulations  
Government of Canada / Department of Justice  
<http://laws-lois.justice.gc.ca/eng/regulations/SOR-86-304/index.html>

CAN/CSA Z107.56-13

Measurement of Noise Exposure  
Canadian Standards Association  
5060 Spectrum Way, Suite 100  
Mississauga, Ontario, L4W 5N6  
<http://www.csa.ca/cm/ca/en/home>

Hazardous Products Act

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

ANSI B56.1

Safety Standards for Low Lift and High Lift Trucks  
American National Standards Institute  
1899 L Street, NW, 11<sup>th</sup> Floor  
Washington, DC, 20036  
<http://www.ansi.org/>

ISO 5353

Earth-moving machinery, and tractors and machinery for agriculture and forestry - Seat index point  
International Organisation for Standardisation  
ISO Central Secrétariat  
1, ch. de la Voie-Creuse  
CP 56  
CH 1211 Geneva 20  
Switzerland  
<http://www.iso.org/iso/home.htm>



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** start and operate under the extremes of weather conditions found in Canada in temperatures ranging from -20 to 40°C.

3.2.2 Terrain - The vehicle **shall** operate on use-roughened concrete floors, deteriorated outdoor paved surfaces and compacted gravel surfaces while being used for stacking, un-stacking and moving general supplies in and around warehouses.

3.3 Safety Standards

3.3.1 Noise Level - In order for the vehicle noise levels to meet the requirements of legislation relative to Canada Occupational Safety and Health Regulations (paragraph 7.4) both at the operator's station and exterior to the vehicle, the noise level **shall** be less than 87 dB(A), when measured in accordance with CAN/CSA Z107.56-13.

3.3.2 Vehicle Safety - All vehicle design, construction and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.3 Hazardous Materials - The Contractor **shall** 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 "LP" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "LP" safety rating in accordance with Standard UL 558, or an **Equivalent**.

3.3.5 "LPS" Safety Rating Feature

- (a) The vehicle **shall** be manufactured to meet the requirements of an "LPS" safety rating in accordance with Standard UL 558, or an **Equivalent**, in lieu of the "LP" safety rating (paragraph 3.3.4); and



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

- (b) A certification label confirming the vehicle meets the "LPS" safety rating *shall* be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle *shall* be a sit down rider type forklift.

3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, *shall* have a lift capacity of at least that given as "LIFT CAPACITY" in the Data Table (paragraph 1.4) at the load centre of that given as "LOAD CENTRE" in the Data Table (paragraph 1.4);
- (b) The lift capacity, with the standard mast and no accessories, *shall* not de-rate to below specified load capacity before reaching a load lift height of 3,810 mm (150 inches);
- (c) The vehicle *shall* have a lift height of at least that given as "STANDARD MAST - LIFT HEIGHT" in the Data Table (paragraph 1.4), measured from the floor to the top of the forks with the mast in an extended vertical position; and
- (d) The vehicle, with the mast in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "STANDARD MAST - VEHICLE HEIGHT" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle *shall* be provided with a see-through telescopic mast; and
- ii The standard mast *shall* have full free lift.

(b) Forks

- i The vehicle *shall* be provided with standard forks having a nominal length of either 1,016 mm (40 inches) or 1,066 mm (42 inches); and
- ii Forks with nominal lengths of 914 mm (36 inches) or 1,219 mm (48 inches) *shall* be provided, in lieu of the standard forks, when required by the call-up.

(c) Load Backrest - The load backrest *shall* have a nominal height of 1,219 mm (48 inches);

(d) Mast Tilt - The vehicle *shall* be provided with a power mechanism that tilts the mast fore and aft of vertical; and

(e) Fire Extinguisher

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



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** be a "see-through" design;
- iii Mast no. 2 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 2 **shall** have full free lift.

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** be a "see-through" design;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no.3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 3 **shall** have full free lift.

(c) Mast no. 4

- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 **shall** be a "see-through" design;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no.4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 4 **shall** have full free lift.

(d) Lift Accumulator - The mast **shall** be provided with a system to absorb impact loads from tracks, potholes and other obstacles;

(e) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 100 mm (4 inches) to both sides of the centreline;



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

(f) Fork Positioning Side Shifter

- i The vehicle **shall** be provided with an integrated fork-positioning side shifter;
- ii The fork-positioning attachment **shall** increase/decrease the spacing between the unloaded forks; and
- iii The side shifter **shall** be capable of side shifting fully loaded forks simultaneously to either side.

(g) 54-inch Forks - The vehicle **shall** be provided with forks having a nominal length of 1,372 mm (54 inches), in lieu of standard forks (paragraph 3.5 (b));

(h) 60-inch Forks - The vehicle **shall** be provided with forks having a nominal length of 1,524 mm (60 inches), in lieu of standard forks (paragraph 3.5 (b));

(i) Fork Tine Position Guide

- i The vehicle **shall** be provided with a fork tine position guide;
- ii The fork tine position guide **shall** be permanently attached to the backrest;
- iii The fork tine position guide **shall** use a laser to create a line that shows the level of the top of the fork tines;
- iv The fork tine position guide **shall** be connected to the vehicle electrical system;
- v The fork tine position guide **shall** automatically turn off when the vehicle is turned off; and
- vi The fork tine position guide **shall** automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.

3.6 Operator Station

(a) Overhead Guard

- i The vehicle **shall** be provided with a driver's overhead guard with wire mesh or **Equivalent** mounted to protect operator; and
- ii The height from the seat point index to the underside of the overhead guard **shall** be at least 890 mm (35 inches) in accordance with the recommendation in ANSI B56.1 when measured in accordance with ISO 5353.

(b) Seat - The vehicle **shall** be provided with a padded operator's seat and backrest, provided with seat belts; and

(c) Mirrors - The vehicle **shall** be provided with rear view mirrors providing a full view for safe reverse operations.

3.6.1 Operator Station Features and Accessories

(a) Cab

- i The vehicle **shall** be provided with a fully enclosed weatherproof and insulated cab;



**FORKLIFT TRUCK, PROPANE (LPG) ENGINE**

- ii The height from the seat point index to the underside of the cab roof **shall** be at least 890 mm (35 inches) in accordance with the recommendation in ANSI B56.1 when measured in accordance with ISO 5353;
- iii The cab **shall** be provided with a heating system with ventilation and defrosting systems capable of keeping windows free from frost and moisture;
- iv The cab **shall** be provided with safety glass in the windows;
- v It is preferred the glass be tinted to reduce solar heating load;
- vi The cab **shall** be provided with windshield wipers, including a windshield washer for each wiper; and
- vii The cab **shall** offer overhead load visibility during storage and retrieval operations.

(b) **Suspension Seat**

- i The vehicle **shall** be provided with a padded full suspension seat and backrest;
- ii It is preferred that the seat be cloth covered;
- iii The seat **shall** be provided with seat belts conforming, as a minimum, to SAE J386; and
- iv The seat **shall** be provided with fore/aft and vertical adjustment without the operator having to move from a seated position.

3.7 **Chassis - Commercially Equipped**

3.8 **Engine** - The vehicle **shall** be provided with a LPG engine.

3.8.1 **Engine Components** - The vehicle **shall** be provided with a catalytic converter and closed loop control system for reduction of emissions.

3.8.2 **LPG Fuel Tank**

- (a) The vehicle **shall** be provided with a LPG fuel tank mounted on the vehicle. It is preferable to have the tank mounted horizontally;
- (b) The fuel tank **shall** have a safety guard with quick release clamps and quick connect couplings; and
- (c) Each vehicle **shall** be provided with one spare tank.

3.8.3 **Engine Features and Accessories**

(a) **Tank Lift Device**

- i The vehicle **shall** be provided with a tank lift device that reduces the effort required to remove and replace the propane tank; and
- ii The tank lift device **shall** lower the tank into a convenient position for exchange.

3.9 **Transmission** - The transmission **shall** be provided with an inching function.



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

3.10 **Brake System** - The braking system *shall* conform to CSA B335, or an *Equivalent*.

3.11 **Steering - Commercially Equipped**

3.12 **Tires and Wheels**

- (a) The vehicle *shall* be provided with industrial high-pressure pneumatic tube type tires with non-directional treads; and
- (b) The vehicle *shall* be provided with single load wheels.

3.12.1 **Tire Features and Accessories**

(a) **Dual Load Wheels - Pneumatic**

- i The vehicle *shall* be provided with dual load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* be industrial pneumatic tires having non-directional treads.

(b) **Single Load Wheels - Solid**

- i The vehicle *shall* be provided with single load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* be soft ride solid pneumatic profile tires with non-directional treads.

(c) **Dual Load Wheels - Solid**

- i The vehicle *shall* be provided with dual load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* be soft ride solid pneumatic profile tires with non-directional treads.

(d) **Single Load Wheels - Snow and Mud**

- i The vehicle *shall* be provided with single load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* have a snow and mud or aggressive tread pattern.

(e) **Dual Load Wheels - Snow and Mud**

- i The vehicle *shall* be provided with dual load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* have a mud and snow or aggressive tread pattern.

3.13 **Controls** - The vehicle *shall* 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 *shall* be provided with an hour-meter, which displays accumulated running time up to 9,999 hours.

3.14.1 **Instruments Features and Accessories**

(a) **Weigh Scale**

- i The vehicle *shall* be provided with a weigh scale with an accuracy of at most 2 percent of forklift capacity; and



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

- ii The weigh scale **shall** be provided with a digital readout with zeroing capability.

3.15 Electrical System

- (a) The vehicle **shall** be provided with a readily accessible driver-operated warning horn; and
- (b) The vehicle **shall** be provided with a backup alarm to alert personnel that the vehicle is in backup mode.

3.16 Lighting

(a) Floodlights

- i The vehicle **shall** be provided with floodlights that allow for forklift operations at night;
- ii The floodlights **shall** provide sufficient lighting for the operator to see the load and fork tips in all positions; and
- iii The vehicle **shall** be provided with at least one adjustable floodlight.

(b) Flashing Beacon

- i The vehicle **shall** be provided with a red flashing beacon light mounted on the rear of the vehicle; and
- ii The beacon **shall** be activated when the vehicle transmission is in reverse.

3.16.1 Lighting Features and Accessories

- (a) Signal Lights - The vehicle **shall** be provided with headlights, adjustable work lights at the front and rear, stoplights and turn signals; and
- (b) Additional Working Lights - The vehicle **shall** be provided with at least 2 additional working lights on the front.

3.17 Hydraulic System - Commercially Equipped

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle **shall** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** be responsible for all manpower and equipment to perform assembly;





FORKLIFT TRUCK, PROPANE (LPG) ENGINE

- (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, **shall** be listed on the shipping certificate or to an attached packing note;
- (e) Propane fuel tanks **shall** be shipped empty; and
- (f) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.



4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents supplied to the Technical Authority

(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manual for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration;
- iii Accessory manuals may be included as supplements to the vehicle manuals. Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view and one right-rear three-quarter view of each Configuration, **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of each vehicle Configuration **shall** be supplied;
- iv Brochure line drawings are acceptable;
- v Photographs **shall** have a plain uncluttered background;
- vi Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format; and
- vii Photographs **shall** have a resolution of at least eight (8) Mega pixels.



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
- i The Contractor **shall** supply a list, in digital format, of all hazardous materials on the vehicle at the time of delivery;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
- i A customer support package, in digital format, **shall** be supplied to the **Technical Authority**;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list of all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those provided to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

(b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD or DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and



FORKLIFT TRUCK, PROPANE (LPG) ENGINE

- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor **shall** supply a maintenance training course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or





FORKLIFT TRUCK, PROPANE (LPG) ENGINE

designated contact person for vehicles shipped to users other than DND;

viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

i The Contractor **shall** supply a troubleshooting course in French;

ii The instructor **shall** be an OEM Factory Certified Training Provider;

iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;

iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;

v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;

vi The troubleshooting course **shall** be supplied at the delivery destination;

vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;

viii After completion of the troubleshooting course, the Contractor **shall** 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.



NOTICE

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

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. SCOPE

1.1 Scope - This Purchase Description covers the requirements for diesel engine powered, 4-wheel, counterbalance, sit-down rider type forklift trucks with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



PURCHASE DESCRIPTION  
 GROUP 1B  
FORKLIFT, TRUCK, DIESEL ENGINE

as meeting the specified requirements for fit, form, function and performance; and

- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes a paragraph references.

			CONFIGURATION						
CHARACTERISTIC	PARAGRAPH	UNITS	A	B	C	D	E	F	
LIFT CAPACITY	3.4.1 (a)	kg	1,805	2,260	2,715	3,170	3,625	4,535	
		lbs	4,000	5,000	6,000	7,000	8,000	10,00	
LOAD CENTRE		mm	610	610	610	610	610	610	
		inches	24	24	24	24	24	24	
STANDARD MAST - LIFT HEIGHT	3.4.1 (c)	mm	4,720	4,720	4,720	4,720	4,670	4,695	
		inches	186	186	186	186	184	185	
STANDARD MAST - VEHICLE HEIGHT	3.4.1 (d)	mm	2,290	2,290	2,290	2,340	2,365	2,495	
		inches	90	90	90	92	93	98	
MAST 2	LIFT HEIGHT	3.5.1 (a)	mm	3,810	3,810	3,810	3,810	3,695	3,820
			inches	150	150	150	150	145.5	150
	VEHICLE HEIGHT		mm	2,140	2,140	2,140	2,140	2,365	2,315
			inches	84	84	84	84	93	91
MAST 3	LIFT HEIGHT	3.5.1 (b)	mm	5,330	5,330	5,330	5,205	5,155	5,255
			inches	210	210	210	205	203	207
	VEHICLE HEIGHT		mm	2,795	2,795	2,795	2,795	2,495	2,770
			inches	110	110	110	110	98	109
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm	5,940	5,940	5,940	5,660	5,500	5,890
			inches	234	234	234	223	216.5	232
	VEHICLE HEIGHT		mm	2,925	2,925	2,925	2,925	2,795	3,000
			inches	115	115	115	115	110	118



PURCHASE DESCRIPTION  
 GROUP 1B  
FORKLIFT, TRUCK, DIESEL ENGINE

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION					
		A	B	C	D	E	F
"DS" Safety Rating Feature	3.3.5	X	X	X	X	X	X
Mast no. 2	3.5.1 (a)	X	X	X	X	X	X
Mast no. 3	3.5.1 (b)	X	X	X	X	X	X
Mast no. 4	3.5.1 (c)	X	X	X	X	X	X
Lift Accumulator	3.5.1 (d)	X	X	X	X	X	X
Side Shifter	3.5.1 (e)	X	X	X	X	X	X
Fork Positioning Side Shifter	3.5.1 (f)	X	X	X	X	X	X
54-inch Forks	3.5.1 (g)	X	X	X	X	X	X
60-inch Forks	3.5.1 (h)	X	X	X	X	X	X
Fork Tine Position Guide	3.5.1 (i)	X	X	X	X	X	X
Cab	3.6.1 (a)	X	X	X	X	X	X
Suspension Seat	3.6.1 (b)	X	X	X	X	X	X
Dual Load Wheels - Pneumatic	3.12.1 (a)	X	X	X	X	X	X
Single Load Wheels - Solid	3.12.1 (b)	X	X	X	X	X	X
Dual Load Wheels - Solid	3.12.1 (c)	X	X	X	X	X	X
Single Load Wheels - Mud and Snow	3.12.1 (d)	X	X	X	X	X	X
Dual Load Wheels - Mud and Snow	3.12.1 (e)	X	X	X	X	X	X
Weigh Scale	3.14.1 (a)	X	X	X	X	X	X
Signal Lights	3.16.1 (a)	X	X	X	X	X	X
Additional Working Lights	3.16.1 (b)	X	X	X	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X	X	X	X
Training - Troubleshooting French	4.2 (f)	X	X	X	X	X	X



2. **APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 558

Standard for Industrial Trucks, Internal Combustion Engine-Powered  
Underwriters' Laboratories of Canada  
7 Underwriters Road,  
Toronto, Ontario, M1R 3A9  
<http://www.ulc.ca/>

Canada Occupational Health and Safety Regulations  
Government of Canada / Department of Justice  
<http://laws-lois.justice.gc.ca/eng/regulations/SOR-86-304/index.html>

CAN/CSA Z107.56-13  
Measurement of Noise Exposure  
Canadian Standards Association  
5060 Spectrum Way, Suite 100  
Mississauga, Ontario, L4W 5N6  
<http://www.csa.ca/cm/ca/en/home>

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

ANSI B56.1  
Safety Standards for Low Lift and High Lift Trucks  
American National Standards Institute  
1899 L Street, NW, 11<sup>th</sup> Floor  
Washington, DC, 20036  
<http://www.ansi.org/>

ISO 5353  
Earth-moving machinery, and tractors and machinery for agriculture  
and forestry - Seat index point  
International Organisation for Standardisation  
ISO Central Secrétariat  
1, ch. de la Voie-Creuse  
CP 56  
CH 1211 Geneva 20  
Switzerland  
<http://www.iso.org/iso/home.htm>



3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** start and operate under the extremes of weather conditions found in Canada in temperatures ranging from -40 to 40°C.

3.2.2 Terrain - The vehicle **shall** operate on use-roughened concrete floors, deteriorated outdoor paved surfaces and compacted gravel surfaces while being used for stacking, un-stacking and moving general supplies in and around warehouses.

3.3 Safety Standards

3.3.1 Noise Level - In order for the vehicle noise levels to meet the requirements of legislation relative to Canada Occupational Safety and Health Regulations (paragraph 7.4) both at the operator's station and exterior to the vehicle, the noise level **shall** be less than 87 dB(A), when measured in accordance with CAN/CSA Z107.56-13.

3.3.2 Vehicle Safety - All vehicle design, construction and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.3 Hazardous Materials - The Contractor **shall** 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 "D" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "D" safety rating in accordance with Standard UL 558, or an **Equivalent**.

3.3.5 "DS" Safety Rating Feature

- (a) The vehicle **shall** be manufactured to meet the requirements of an "DS" safety rating in accordance with Standard UL 558, or an **Equivalent**, in lieu of the "D" safety rating (paragraph 3.3.3); and



FORKLIFT, TRUCK, DIESEL ENGINE

- (b) A certification label confirming the vehicle meets the "DS" safety rating *shall* be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle *shall* be a sit down rider type forklift.

3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, *shall* have a lift capacity of at least that given as "LIFT CAPACITY" in the Data Table (paragraph 1.4) at the load centre of that given as "LOAD CENTRE" in the Data Table (paragraph 1.4);
- (b) The lift capacity, with the standard mast and no accessories, *shall* not de-rate to below specified load capacity before reaching a load lift height of 3,810 mm (150 inches);
- (c) The vehicle *shall* have a lift height of at least that given as "STANDARD MAST - LIFT HEIGHT" in the Data Table (paragraph 1.4), measured from the floor to the top surface of the forks in the full-up position; and
- (d) The vehicle, with the mast in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "STANDARD MAST - VEHICLE HEIGHT" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle *shall* be provided with a see-through telescopic mast;
- ii The standard mast *shall* have full free lift; and
- iii Tips of the forks *shall* be visible by a seated operator at all lift heights.

(b) Forks

- i The vehicle *shall* be provided with standard forks having a nominal length of either 1,016 mm (40 inches) or 1,066 mm (42 inches); and
- ii Forks with nominal lengths of 914 mm (36 inches) or 1,219 mm (48 inches) *shall* be provided, in lieu of the standard forks, when required by the call-up.

(c) Load Backrest - The backrest *shall* have a nominal height of 1,219 mm (48 inches);

(d) Mast Tilt - The vehicle *shall* be provided with a power mechanism that tilts the mast fore and aft of vertical; and

(e) Fire Extinguisher

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



3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle *shall* be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 *shall* be a "see-through" design;
- iii Mast no. 2 *shall* 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 2 in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 2 *shall* have full free lift.

(b) Mast no. 3

- i The vehicle *shall* be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 *shall* be a "see-through" design;
- iii Mast no. 3 *shall* 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 3 in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 3 *shall* have full free lift.

(c) Mast no. 4

- i The vehicle *shall* be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 *shall* be a "see-through" design;
- iii Mast no. 4 *shall* 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 4 in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 4 *shall* have full free lift.

(d) Lift Accumulator - The mast *shall* be provided with a system to absorb impact loads from tracks, potholes and other obstacles;

(e) Side Shifter - The vehicle *shall* be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 100 mm (4 inches) to both sides of the centreline;





- (f) Fork Positioning Side Shifter
  - i The vehicle **shall** be provided with a fork-positioning side shifter;
  - ii The fork-positioning attachment **shall** increase/decrease the spacing between the unloaded forks; and
  - iii The side shifter **shall** be capable of side shifting fully loaded forks simultaneously to either side.
- (g) 54-inch Forks - The vehicle **shall** be provided with forks having a nominal length of 1,372 mm (54 inches), in lieu of standard forks (paragraph 3.5 (b));
- (h) 60-inch Forks - The vehicle **shall** be provided with forks having a nominal length of 1,524 mm (60 inches), in lieu of standard forks (paragraph 3.5 (b)); and
- (i) Fork Tine Position Guide
  - i The vehicle **shall** be provided with a tine position guide;
  - ii The fork tine position guide **shall** be permanently attached to the backrest;
  - iii The fork tine position guide **shall** use a laser to create a line that shows the level of the top of the fork tines;
  - iv The fork tine position guide **shall** be connected to the vehicle electrical system;
  - v The fork tine position guide **shall** automatically turn off when the vehicle is turned off; and
  - vi The fork tine position guide **shall** automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.

### 3.6 Operator Station

- (a) Overhead Guard
  - i The vehicle **shall** be provided with a driver's overhead guard with wire mesh or **Equivalent** mounted to protect operator; and
  - ii The height from the seat point index to the underside of the overhead guard **shall** be at least 890 mm (35 inches) in accordance with the recommendation in ANSI B56.1 when measured in accordance with ISO 5353.
- (b) Seat - The vehicle **shall** be provided with a padded operator's seat and backrest, provided with seat belts; and
- (c) Mirrors - The vehicle **shall** be provided with rear view mirrors providing a full view for safe reverse operations.

#### 3.6.1 Operator Station Features and Accessories

- (a) Cab
  - i The vehicle **shall** be provided with a fully enclosed weatherproof and insulated cab;



FORKLIFT, TRUCK, DIESEL ENGINE

- ii The height from the seat point index to the underside of the cab roof **shall** be at least 890 mm (35 inches) in accordance with the recommendation in ANSI B56.1 when measured in accordance with ISO 5353;
- iii The cab **shall** be provided with a heating system with ventilation and defrosting systems capable of keeping windows free from frost and moisture;
- iv The cab **shall** be provided with safety glass in the windows. It is preferred the glass be tinted to reduce solar heating load;
- v The cab **shall** be provided with windshield wipers, including a windshield washer for each wiper; and
- vi The cab **shall** offer overhead load visibility during storage and retrieval operations.

(b) Suspension Seat

- i The vehicle **shall** be provided with a padded full suspension seat and backrest;
- ii It is preferred that the seat be cloth covered;
- iii The seat **shall** be provided with seat belts conforming, as a minimum, to SAE J386; and
- iv The seat **shall** be provided with fore/aft and vertical adjustment without the operator having to move from a seated position.

3.7 Chassis - *Commercially Equipped*

3.8 Engine

- (a) The vehicle **shall** be provided with a diesel engine; and
- (b) The engine **shall** meet Tier 4 or Tier 4i emission standards.

3.8.1 Engine Components - *Commercially Equipped*

3.8.2 Fuel Tank(s) - The fuel tank filler cap **shall** be marked to identify the vehicle fuel.

3.8.3 Engine Cold Weather Aids

- (a) 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;
- (b) The engine **shall** be equipped with a low temperature engine starting aid;
- (c) The engine **shall** have one of the following systems: glow plug(s), intake air preheat or **Equivalent**;
- (d) The engine **shall** be equipped with one or more 110-Volt engine heaters. The engine heaters **shall** have a capacity as recommended by the engine manufacturer or conform to SAE J1310; and
- (e) The engine heater plug **shall** be accessible by an operator standing beside the vehicle.



- 3.9 Transmission - The transmission *shall* be provided with an inching function.
- 3.10 Brake System - The braking system *shall* conform to CSA B335, or an *Equivalent*.
- 3.11 Steering - *Commercially Equipped*
- 3.12 Tires and Wheels
- (a) The vehicle *shall* be provided with industrial high-pressure pneumatic tube type tires with non-directional treads; and
- (b) The vehicle *shall* be provided with single load wheels.
- 3.12.1 Tire Features and Accessories
- (a) Dual Load Wheels - Pneumatic
- i The vehicle *shall* be provided with dual load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* be industrial pneumatic tires having non-directional treads.
- (b) Single Load Wheels - Solid
- i The vehicle *shall* be provided with single load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* be soft ride solid pneumatic profile tires with non-directional treads.
- (c) Dual Load Wheels - Solid
- i The vehicle *shall* be provided with dual load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* be soft ride solid pneumatic profile tires with non-directional treads.
- (d) Single Load Wheels - Snow and Mud
- i The vehicle *shall* be provided with single load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* have a snow and mud or aggressive tread pattern.
- (e) Dual Load Wheels - Snow and Mud
- i The vehicle *shall* be provided with dual load wheels, in lieu of the wheels specified in paragraph 3.12; and
- ii Tires *shall* have a mud and snow or aggressive tread pattern.
- 3.13 Controls - The vehicle *shall* 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 *shall* be provided with an hour-meter, which displays accumulated running time up to 9,999 hours.



3.14.1 Instruments Features and Accessories

(a) Weigh Scale

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

3.15 Electrical System

- (a) The vehicle **shall** be provided with a readily accessible driver-operated warning horn; and
- (b) The vehicle **shall** be provided with a backup alarm to alert personnel that the vehicle is in backup mode.

3.16 Lighting

(a) Floodlights

- i The vehicle **shall** be provided with floodlights that allow for forklift operations at night;
- ii The floodlights **shall** provide sufficient lighting for the operator to see the load and fork tips in all positions; and
- iii The vehicle **shall** be provided with at least one adjustable floodlight.

(b) Flashing Beacon

- i The vehicle **shall** be provided with a red flashing beacon light mounted on the rear of the vehicle; and
- ii The beacon **shall** be activated when the vehicle transmission is in reverse.

3.16.1 Lighting Features and Accessories

- (a) Signal Lights - The vehicle **shall** be provided with headlights, adjustable work lights at the front and rear, stoplights and turn signals; and
- (b) Additional Working Lights - The vehicle **shall** be provided with at least 2 additional working lights on the front.

3.17 Hydraulic System - Commercially Equipped

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle **shall** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.



3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** 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, **shall** be listed on the shipping certificate or to an attached packing note;
- (e) Fuel tank(s) **shall** be half to three quarters full on delivery; and
- (f) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.



4. INTEGRATED LOGISTIC ITEMS
- 4.1 Contractor Documentation and Integrated Logistic Items
- 4.1.1 Documents supplied to the Technical Authority
- (a) Data Summary
- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture;
  - ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
  - iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
  - iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
  - v Data summary approval or comments will be supplied within 30 calendar days of receipt.
- (b) Manuals for Approval
- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
  - ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
  - iii Manuals will not be returned; and
  - iv Manual approval or comments will be supplied within 30 calendar days of receipt.
- (c) Photographs and Line Drawings
- i Two (2) digital colour photographs, one left-front three-quarter view and one right-rear three-quarter view of each Configuration, **shall** be supplied;
  - ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
  - iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
  - iv Photographs **shall** have a plain uncluttered background; and
  - v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.
- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;



(e) Material Safety Data Sheets

- i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
- ii If there are no hazardous materials used, this **shall** be stated on the list; and
- iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.

(f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and

(g) Customer Support Package

- i A customer support package, in digital format, **shall** be supplied;
- ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
- iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
- iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
- v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
- vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
- vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
- viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
- ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manuals

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;



FORKLIFT, TRUCK, DIESEL ENGINE

- iii In addition to the paper copy of the operator's manual, a digital copy on a CD, DVD or **Equivalent shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those provided to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.





- (b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (d) Digital Maintenance Manual - English
  - i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.
- (e) Digital Maintenance Manual - French
  - i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD or DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.
- (f) Paper Parts Manual
  - i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
  - ii The parts manual **shall** be in English; and
  - iii It is desirable to provide the parts manual in French in addition to the English version.
- (g) Digital Parts Manual
  - i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The parts manual **shall** be in English;
  - iv It is desirable to provide the parts manual in French in addition to the English version;

- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;

- vi The familiarization course *shall* accommodate up to eight (8) personnel;
- vii The familiarization course *shall* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *shall* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor *shall* have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor *shall* supply a maintenance training course in English;
- ii The instructor *shall* be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum *shall* include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course *shall* have a minimum duration of four (4) days;
- v The maintenance training course *shall* accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course *shall* be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course *shall* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor *shall* have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor *shall* supply a maintenance training course in French;
- ii The instructor *shall* be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum *shall* include operation and maintenance safety precautions,

preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;

- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "**PROOF OF MAINTAINER TRAINING**" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "**PROOF OF MAINTAINER TRAINING**" document template in a digital format.

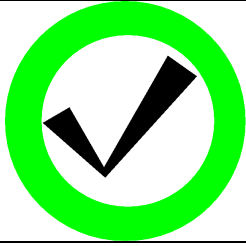
(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



(f) Training - Troubleshooting - French

- i The Contractor **shall** supply a troubleshooting course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

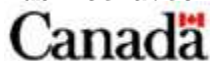
Date \_\_\_\_\_

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"LPS" Safety Rating Feature - Proof of Compliance**

Certificate - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8.3 **Engine Features and Accessories**

(a) **Tank Lift Device - Proof of compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"LPS" Safety Rating Feature - Proof of Compliance**

Certificate - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8.3 **Engine Features and Accessories**

(a) **Tank Lift Device - Proof of compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"LPS" Safety Rating Feature - Proof of Compliance**

Certificate - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8.3 **Engine Features and Accessories**

(a) **Tank Lift Device - Proof of compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"LPS" Safety Rating Feature - Proof of Compliance**

Certificate - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8.3 **Engine Features and Accessories**

(a) **Tank Lift Device - Proof of compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"LPS" Safety Rating Feature - Proof of Compliance**

Certificate - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8.3 **Engine Features and Accessories**

(a) **Tank Lift Device - Proof of compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

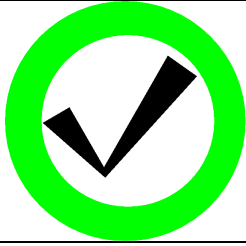
Details on page \_\_\_\_\_ of document \_\_\_\_\_



DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

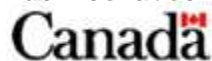
Date \_\_\_\_\_

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



RDIMS # 3838896



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"DS" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8 **Engine**

(b) **Tier 4 or Tier 4i Emission Certification - Proof of Compliance**  
Certification - document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"DS" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8 **Engine**

(b) **Tier 4 or Tier 4i Emission Certification - Proof of Compliance**  
Certification - document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"DS" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8 **Engine**

(b) **Tier 4 or Tier 4i Emission Certification - Proof of Compliance**  
Certification - document \_\_\_\_\_





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"DS" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8 **Engine**

(b) **Tier 4 or Tier 4i Emission Certification - Proof of Compliance**  
Certification - document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"DS" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**  
(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8 **Engine**  
(b) **Tier 4 or Tier 4i Emission Certification - Proof of Compliance**  
Certification - document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.5 **"DS" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.8 **Engine**

(b) **Tier 4 or Tier 4i Emission Certification - Proof of Compliance**  
Certification - document \_\_\_\_\_



DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

## **Annex B – Group 2 - Electric sit down forklifts**

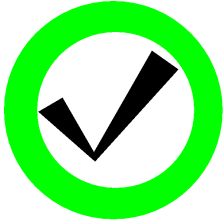
The Annex B is composed of the following Appendix:

Appendix B1: Purchase Descriptions for Group 2A - Truck, Lift, Fork, Electric Motor Driven, 3 Wheels;

Appendix B2: Purchase Descriptions for Group 2B - Truck, Lift, Fork, Electric Motor Driven;

Appendix B3: Technical Information Questionnaires for Group 2A Configuration A, B, and C

Appendix B4: Technical Information Questionnaires for Group 2B Configuration A, B, C and D



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for electric 3-wheel sit-down rider counterbalance forklifts with features and attachments.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor, upon request;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement

---

OPI DSVPM 4 DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



RDIMS # 3741237

© 2016 DND/MDN Canada

Page 1 of 19



as meeting the specified requirements for fit, form, function and performance; and

- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements;

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

			CONFIGURATION						
CHARACTERISTIC	PARAGRAPH	UNITS	A	B	C	D	E	F	
LIFT CAPACITY	3.4.1 (a)	kg	905	905	1,355	1,355	1,580	1,805	
		lb	2,000	2,000	3,000	3,000	3,500	4,000	
LOAD CENTRE		mm	610	610	610	610	610	610	
		in	24	24	24	24	24	24	
STANDARD MAST - LIFT HEIGHT	3.4.1 (c)	mm	4,720	3,805	4,720	3,805	4,720	4,720	
		in	186	150	186	150	186	186	
STANDARD MAST - VEHICLE HEIGHT	3.4.1 (d)	mm	2,290	2,035	2,290	2,035	2,290	2,290	
		in	90	80	90	80	90	90	
MAST 2	3.5.1 (a)	LIFT HEIGHT	mm	3,805		3,805		3,805	3,805
			in	150		150		150	150
		VEHICLE HEIGHT	mm	2,135		2,135		2,135	2,135
			in	84		84		84	84
MAST 3	3.5.1 (b)	LIFT HEIGHT	mm	5,330		5,330		5,330	5,330
			in	210		210		210	210
		VEHICLE HEIGHT	mm	2,795		2,795		2,795	2,795
			in	110		110		110	110
MAST 4	3.5.1 (c)	LIFT HEIGHT	mm	5,940		5,940		5,940	5,940
			in	234		234		234	234
		VEHICLE HEIGHT	mm	2,925		2,925		2,925	2,925
			in	115		115		115	115
BATTERY CAPACITY	3.15 (b)	kWh	17	17	24	24	24	24	



PURCHASE DESCRIPTION  
 GROUP 2A  
FORKLIFT, ELECTRIC, 3 WHEELS

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION					
		A	B	C	D	E	F
"EE" Safety Rating Feature	3.3.4	X	X	X	X	X	X
Mast no. 2	3.5.1 (a)	X		X		X	X
Mast no. 3	3.5.1 (b)	X		X		X	X
Mast no. 4	3.5.1 (c)	X		X		X	X
Lift Accumulator	3.5.1 (d)	X	X	X	X	X	X
Side Shifter	3.5.1 (e)	X	X	X	X	X	X
Fork Positioner/Side Shifter	3.5.1 (f)	X	X	X	X	X	X
54-inch Forks	3.5.1 (g)	X	X	X	X	X	X
60-inch Forks	3.5.1 (h)	X	X	X	X	X	X
Fork Tine Position Guide	3.5.1 (i)	X	X	X	X	X	X
Removable Cab	3.6.1 (a)	X	X	X	X	X	X
Suspension Seat	3.6.1 (b)	X		X		X	X
Lug Tread Tire	3.12.1 (a)	X	X	X	X	X	X
Weigh Scale	3.14.1 (a)	X	X	X	X	X	X
220 V, Single Phase Charger	3.15.1 (a)	X	X	X	X	X	X
220 V, 3 Phase Charger	3.15.1 (b)	X	X	X	X	X	X
440 V, 3 Phase Charger	3.15.1 (c)	X	X	X	X	X	X
550 V, 3 Phase Charger	3.15.1 (d)	X	X	X	X	X	X
Battery Watering System	3.15.1 (e)	X	X	X	X	X	X
Battery Rollers	3.15.1 (f)	X	X	X	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X	X	X	X





**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

CAN/CSA Standards

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>

UL Standards

UL 583 Standard for Electric-Battery-Powered Industrial Trucks  
Underwriters' Laboratories of Canada  
7 Underwriters Road,  
Toronto, Ontario, M1R 3A9  
<http://www.ulc.ca/>

Hazardous Products Act

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

ANSI Standards

B56.1 Safety Standards for Low Lift and High Lift Trucks  
American National Standards Institute  
1899 L Street, NW, 11<sup>th</sup> Floor  
Washington, DC, 20036  
<http://www.ansi.org/>

ISO Standards

5353 Earth-moving machinery, and tractors and machinery for agriculture  
and forestry - Seat index point  
International Organisation for Standardisation  
ISO Central Secrétariat  
1, ch. de la Voie-Creuse  
CP 56  
CH 1211 Geneva 20  
Switzerland  
<http://www.iso.org/iso/home.htm>



3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** 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 Vehicle Safety - All vehicle design, construction and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle **shall** be a battery-powered, sit down rider type forklift.



3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, **shall** have a lift capacity of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4) at the load centre of that given as "**LOAD CENTRE**" in the Data Table (paragraph 1.4);
- (b) The lift capacity, with the standard mast and no accessories, **shall** not de-rate to below specified lift capacity before reaching a load lift height of 3,810 mm (150 inches);
- (c) The vehicle **shall** have a lift height of at least that given as "**STANDARD MAST - LIFT HEIGHT**" in the Data Table (paragraph 1.4), measured from the floor to the top surface of the forks in the full-up position; and
- (d) The vehicle, with the mast in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**STANDARD MAST - VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

3.4.2 Forklift Configuration

- (a) The vehicle **shall** have 3 wheels; and
- (b) 3-wheel vehicles **shall** have a single steer wheel or a pair of wheels, which are pivoted together.

3.5 Equipment

(a) Standard Mast

- i The vehicle **shall** be provided with a see-through telescopic mast; and
- ii The standard mast **shall** have full free lift.

(b) Forks

- i The vehicle **shall** be provided with standard forks having a nominal length of either 1,016 mm (40 inches) or 1,066 mm (42 inches); and
- ii Forks with nominal lengths of 914 mm (36 inches) or 1,219 mm (48 inches) **shall** be provided, in lieu of the standard forks, when required by the call-up.

(c) Load Backrest - The load backrest **shall** have a nominal height of 1,219 mm (48 inches);

(d) Mast Tilt - The vehicle **shall** be provided with a power mechanism that tilts the mast fore and aft of vertical; and

(e) Fire Extinguisher

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



3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** be a "see-through" design;
- iii Mast no. 2 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 2 **shall** have full free lift.

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** be a "see-through" design;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 3 **shall** have full free lift.

(c) Mast no. 4

- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 **shall** be a "see-through" design;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 4 **shall** have full free lift.

(d) Lift Accumulator - The mast **shall** be provided with a system to absorb impact loads from tracks, potholes and other obstacles;

(e) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 100 mm to both sides of the centreline;



- (f) **Fork Positioning Side Shifter**
  - i The vehicle **shall** be provided with a fork-positioning side shifter;
  - ii The fork-positioning attachment **shall** increase/decrease the spacing between the unloaded forks; and
  - iii The side shifter **shall** be capable of side shifting fully loaded forks simultaneously to either side.
- (g) **54-inch Forks** - The vehicle **shall** be provided with forks having a nominal length of 1,372 mm (54 inches), in lieu of standard forks (paragraph 3.5 (b));
- (h) **60-inch Forks** - The vehicle **shall** be provided with forks having a nominal length of 1,524 mm (60 inches), in lieu of standard forks (paragraph 3.5 (b)); and
- (i) **Fork Tine Position Guide**
  - i The vehicle **shall** be provided with a fork tine position guide;
  - ii The fork tine position guide **shall** be permanently attached to the forklift carriage;
  - iii The fork tine position guide **shall** use a laser to create a line that shows the level of the top of the fork tines;
  - iv The fork tine position guide **shall** be connected to the vehicle electrical system;
  - v The fork tine position guide **shall** automatically turn off when the vehicle is turned off; and
  - vi The fork tine position guide **shall** automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.

### 3.6 **Operator Station**

- (a) **Overhead Guard**
  - i The vehicle **shall** be provided with a driver's overhead guard with wire mesh or **Equivalent** mounted to protect operator; and
  - ii The height from the seat point index to the underside of the overhead guard **shall** be at least 890 mm (35 inches) in accordance with the recommendation in ANSI B56.1 when measured in accordance with ISO 5353.
- (b) **Seat** - The vehicle **shall** be provided with a padded operator's seat and backrest, equipped with seat belts; and
- (c) **Mirrors** - The vehicle **shall** be provided with rear view mirrors providing a full view for safe reverse operations.

#### 3.6.1 **Operator Station Features and Accessories**

- (a) **Removable Cab**
  - i The vehicle **shall** be supplied with a removable cab with removable doors;



- ii The cab **shall** fit over the overhead guard; and
- iii The cab **shall** be easily installed/removed without the use of tools.

(b) Suspension Seat

- i The vehicle **shall** be provided with a padded full suspension seat and backrest;
- ii It is preferred that the seat be cloth covered;
- iii The seat **shall** be provided with seat belts conforming, as a minimum, to SAE J386; and
- iv The seat **shall** be provided with fore/aft and vertical adjustment without the operator having to move from a seated position.

3.7 Chassis - *Commercially Equipped*

3.8 Motors - *Commercially Equipped*

3.9 Transmission - *Commercially Equipped*

3.10 Brake System - The braking system **shall** conform to CSA B335, or an **Equivalent**.

3.11 Steering - *Commercially Equipped*

3.12 Tires

- (a) The vehicle **shall** be provided with manufacturer's standard smooth face press-on tires; and
- (b) The tread material **shall** be optimized for use on an electric forklift.

3.12.1 Tire Features and Accessories

- (a) Lug Tread Tires - The vehicle **shall** be provided with lug tread tires, in lieu of the standard tires (paragraph 3.12).

3.13 Controls - The vehicle **shall** be provided with controls readily accessible to the operator including an infinitely variable speed controller with convenient right foot operation.

3.14 Instruments - The instruments **shall** 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

(a) Weigh Scale

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

3.15 Electrical System

- (a) The vehicle **shall** be provided with an electrical system operating at no less than twenty four (24) volts;



- (b) Batteries *shall* have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (c) The vehicle *shall* be provided with a backup alarm to alert personnel that the vehicle is in back-up mode.

3.15.1 Electrical Features and Accessories

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

3.16 Lighting

- (a) The vehicle *shall* be provided with the manufacturer's lighting package;
- (b) Work Lights
  - i The vehicle *shall* be provided with two (2) adjustable, forward facing LED work lights and one (1) adjustable, rear-facing LED work light; and
  - ii The work lights *shall* provide illumination for forward and reverse operations of vehicle.
- (c) Flashing Beacon
  - i The vehicle *shall* be provided with a red flashing beacon light mounted on the rear of the vehicle; and
  - ii The beacon *shall* be activated when the vehicle transmission is in reverse.

3.17 Hydraulic System

- (a) The hydraulic system *shall* be provided with all components required for the operation of the hydraulic actuators provided, including pump, reservoir, filters and control valves; and
- (b) The hydraulic reservoir *shall* be provided with a visual oil level indicator.



3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle **shall** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** 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, **shall** be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.





4. **INTEGRATED LOGISTIC ITEMS**

4.1 **Contractor Documentation and Integrated Logistic Items**

4.1.1 **Documents Supplied to the Technical Authority**

(a) **Data Summary**

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) **Manual for Approval**

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) **Photographs and Line Drawings**

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background;
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format; and
- vi Photographs **shall** have a resolution of at least eight (8) Mega pixels.



- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.



4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD, DVD or **Equivalent shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.



4.1.4 Additional Items

- (a) Initial Parts Kit
  - i One initial parts kit **shall** be supplied; and
  - ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.
- (b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (d) Digital Maintenance Manual - English
  - i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.
- (e) Digital Maintenance Manual - French
  - i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.
- (f) Paper Parts Manual
  - i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
  - ii The parts manual **shall** be in English; and
  - iii It is desirable to provide the parts manual in French in addition to the English version.



(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;



FORKLIFT, ELECTRIC, 3 WHEELS

- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and



ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor **shall** supply a maintenance training course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or



designated contact person for vehicles shipped to users other than DND;

viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

i The Contractor **shall** supply a troubleshooting course in French;

ii The instructor **shall** be an OEM Factory Certified Training Provider;

iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;

iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;

v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;

vi The troubleshooting course **shall** be supplied at the delivery destination;

vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;

viii After completion of the troubleshooting course, the Contractor **shall** 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.





**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for electric 4-wheel sit-down rider counterbalance forklifts with features and attachments.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor, upon request;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this Purchase Description;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement

---

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

**Canada**

RDIMS # 3741240

© 2016 DND/MDN Canada

Page 1 of 19



as meeting the specified requirements for fit, form, function and performance; and

- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC		PARAGRAPH	UNITS	CONFIGURATION			
				A	B	C	D
LIFT CAPACITY		3.4.1 (a)	kg	1,805	2,260	2,715	3,170
			lb	4,000	5,000	6,000	7,000
LOAD CENTRE		3.4.1 (a)	mm	610	610	610	610
			in	24	24	24	24
STANDARD MAST - LIFT HEIGHT		3.4.1 (c)	mm	4,720	4,720	4,720	4,695
			in	186	186	186	185
STANDARD MAST - VEHICLE HEIGHT		3.4.1 (d)	mm	2,290	2,290	2,290	2,290
			in	90	90	90	90
MAST 2	LIFT HEIGHT	3.5.1 (a)	mm	3,805	3,805	3,805	3,805
			in	150	150	150	150
	VEHICLE HEIGHT		mm	2,135	2,135	2,135	2,135
			in	84	84	84	84
MAST 3	LIFT HEIGHT	3.5.1 (b)	mm	5,330	5,330	5,330	5,330
			in	210	210	210	210
	VEHICLE HEIGHT		mm	2,795	2,795	2,795	2,795
			in	110	110	110	110
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm	5,940	5,940	5,940	5,560
			in	234	234	234	219
	VEHICLE HEIGHT		mm	2,925	2,925	2,925	2,925
			in	115	115	115	115
BATTERY CAPACITY		3.15 (b)	kWh	29.5	40.5	47.5	47.5



PURCHASE DESCRIPTION  
 GROUP 2B  
FORKLIFT, ELECTRIC, 4 WHEELS

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION			
		A	B	C	D
"EE" Safety Rating Feature	3.3.4	X	X	X	X
Mast no. 2	3.5.1 (a)	X	X	X	X
Mast no. 3	3.5.1 (b)	X	X	X	X
Mast no. 4	3.5.1 (c)	X	X	X	X
Lift Accumulator	3.5.1 (d)	X	X	X	X
Side Shifter	3.5.1 (e)	X	X	X	X
Fork Positioner/Side Shifter	3.5.1 (f)	X	X	X	X
54-inch Forks	3.5.1 (g)	X	X	X	X
60-inch Forks	3.5.1 (h)	X	X	X	X
Fork Tine Position Guide	3.5.1 (i)	X	X	X	X
Removable Cab	3.6.1 (a)	X	X	X	X
Suspension Seat	3.6.1 (b)	X	X	X	X
Lug Tread Tires	3.12.1 (a)	X	X	X	X
Weigh Scale	3.14.1 (a)	X	X	X	X
120 V, Single Phase Charger	3.15.1 (a)	X	X	X	X
220 V, 3 Phase Charger	3.15.1 (b)	X	X	X	X
440 V, 3 Phase Charger	3.15.1 (c)	X	X	X	X
550 V, 3 Phase Charger	3.15.1 (d)	X	X	X	X
Battery Watering System	3.15.1 (e)	X	X	X	X
Battery Rollers	3.15.1 (f)	X	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X	X
Paper Maintenance Manuals - English	4.1.4 (b)	X	X	X	X
Paper Maintenance Manuals - French	4.1.4 (c)	X	X	X	X
Digital Maintenance Manuals - English	4.1.4 (d)	X	X	X	X
Digital Maintenance Manuals - French	4.1.4 (e)	X	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X	X



**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks  
Underwriters' Laboratories of Canada  
7 Underwriters Road,  
Toronto, Ontario, M1R 3A9  
<http://www.ulc.ca/>

Hazardous Products Act

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

Canada Occupational Health and Safety Regulations

Government of Canada / Department of Justice  
<http://laws-lois.justice.gc.ca/eng/regulations/SOR-86-304/index.html>

ANSI B56.1

Safety Standards for Low Lift and High Lift Trucks  
American National Standards Institute  
1899 L Street, NW, 11<sup>th</sup> Floor  
Washington, DC, 20036  
<http://www.ansi.org/>

ISO 5353

Earth-moving machinery, and tractors and machinery for agriculture  
and forestry - Seat index point  
International Organisation for Standardisation  
ISO Central Secrétariat  
1, ch. de la Voie-Creuse  
CP 56  
CH 1211 Geneva 20  
Switzerland  
<http://www.iso.org/iso/home.htm>



3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** 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 Vehicle Safety - All vehicle design and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle **shall** be a battery-powered sit down rider type forklift.



3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, **shall** have a lift capacity of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4) at the load centre of that given as "**LOAD CENTRE**" in the Data Table (paragraph 1.4);
- (b) The lift capacity, with the standard mast and no accessories, **shall** not de-rate to below specified lift capacity before reaching a load lift height of 3,810 mm (150 inches);
- (c) The vehicle **shall** have a lift height of at least that given as "**STANDARD MAST - LIFT HEIGHT**" in the Data Table (paragraph 1.4), measured from the floor to the top surface of the forks in the full-up position; and
- (d) The vehicle, with the mast in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**STANDARD MAST - VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

3.4.2 Forklift Configuration

- (a) The vehicle **shall** have 4 wheels; and
- (b) 4-wheel vehicles **shall** have two separate steer wheels, one on either side of the vehicle.

3.5 Equipment

(a) Standard Mast

- i The vehicle **shall** be provided with a see-through telescopic mast; and
- ii The standard mast **shall** have full free lift.

(b) Forks

- i The vehicle **shall** be provided with standard forks having a nominal length of either 1,016 mm (40 inches) or 1,066 mm (42 inches); and
- ii Forks with nominal lengths of 914 mm (36 inches) or 1,219 mm (48 inches) **shall** be provided, in lieu of the standard forks, when required by the call-up.

(c) Backrest - The backrest **shall** have a nominal height of 1,219 mm (48 inches);

(d) Mast Tilt - The vehicle **shall** be provided with a power mechanism that tilts the mast fore and aft of vertical; and

(e) Fire Extinguisher

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



3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));ii Mast no. 2 **shall** be a "see-through" design;
- ii Mast no. 3 **shall** be a "see-through" design;
- iii Mast no. 2 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 2 **shall** have full free lift.

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** be a "see-through" design;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 3 **shall** have full free lift.

(c) Mast no. 4

- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** be a "see-through" design;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4);
- iv The vehicle, with the mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- v Mast no. 4 **shall** have full free lift.

(d) Lift Accumulator - The mast **shall** be provided with a system to absorb impact loads from tracks, potholes and other obstacles;

(e) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks



simultaneously at least 100 mm (4 inches) to both sides of the centreline;

(f) Fork Positioning Side Shifter

- i The vehicle **shall** be provided with a fork-positioning side shifter;
- ii The fork-positioning attachment **shall** increase/decrease the spacing between the unloaded forks; and
- iii The side shifter **shall** be capable of side shifting fully loaded forks simultaneously to either side.

(g) 54-inch Forks - The vehicle **shall** be provided with forks having a nominal length of 1,372 mm (54 inches), in lieu of standard forks (paragraph 3.5 (b));

(h) 60-inch Forks - The vehicle **shall** be provided with forks having a nominal length of 1,524 mm (60 inches), in lieu of standard forks (paragraph 3.5 (b)); and

(i) Fork Tine Position Guide

- i The vehicle **shall** be provided with a fork tine position guide;
- ii The fork tine position guide **shall** be permanently attached to the forklift carriage;
- iii The fork tine position guide **shall** use a laser to create a line that shows the level of the top of the fork tines;
- iv The fork tine position guide **shall** be connected to the vehicle electrical system;
- v The fork tine position guide **shall** automatically turn off when the vehicle is turned off; and
- vi The fork tine position guide **shall** automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.

3.6 Operator Station

(a) Overhead Guard

- i The vehicle **shall** be provided with a driver's overhead guard with wire mesh or **Equivalent** mounted to protect operator; and
- ii The height from the seat point index to the underside of the overhead guard **shall** be at least 890 mm (35 inches) in accordance with the recommendation in ANSI B56.1 when measured in accordance with ISO 5353.

(b) Seat - The vehicle **shall** be provided with a padded operator's seat and backrest, provided with seat belts; and

(c) Mirrors - The vehicle **shall** be provided with rear view mirrors providing a full view for safe reverse operations.





3.6.1 Operator Station Features and Accessories

(a) Removable Cab

- i The vehicle **shall** be supplied with a removable cab with removable doors;
- ii The cab **shall** fit over the overhead guard; and
- iii The cab **shall** be easily installed/removed without the use of tools.

(b) Suspension Seat

- i The vehicle **shall** be provided with a padded full suspension seat and backrest;
- ii It is preferred that the seat be cloth covered;
- iii The seat **shall** be provided with seat belts conforming, as a minimum, to SAE J386; and
- iv The seat **shall** be provided with fore/aft and vertical adjustment without the operator having to move from a seated position.

3.7 Chassis - Commercially Equipped

3.8 Motors - Commercially Equipped

3.9 Transmission - Commercially Equipped

3.10 Brake System - The braking system **shall** conform to CSA B335, or an **Equivalent**.

3.11 Steering - Commercially Equipped

3.12 Tires

- (a) The vehicle **shall** be provided with manufacturer's standard smooth face press-on tires;
- (b) The tread material **shall** be optimized for use on an electric forklift.

3.12.1 Tire Features and Accessories

- (a) Lug Tread Tires - The vehicle **shall** be provided with lug tread tires, in lieu of the standard tires (paragraph 3.12).

3.13 Controls - The vehicle **shall** be provided with controls readily accessible to the operator including an infinitely variable speed controller with convenient right foot operation.

3.14 Instruments - The instruments **shall** 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

(a) Weigh Scale

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



3.15 Electrical System

- (a) The vehicle *shall* be provided with an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries *shall* have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (c) The vehicle *shall* be provided with a backup alarm to alert personnel that the vehicle is in back-up mode.

3.15.1 Electrical Features and Accessories

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

3.16 Lighting

- (a) Work Lights
  - i The vehicle *shall* be provided with two adjustable forward facing LED work lights and one adjustable rear-facing LED work light; and
  - ii The work lights *shall* provide sufficient illumination for forward and reverse operations of vehicle.
- (b) Flashing Beacon
  - i The vehicle *shall* be provided with a red flashing beacon light mounted on the rear of the vehicle; and
  - ii The beacon *shall* be activated when the vehicle transmission is in reverse.

3.17 Hydraulic System - Commercially Equipped

3.18 Lubricants and Hydraulic Fluids

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



- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - *Commercially Equipped*

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** 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, **shall** be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.



4. **INTEGRATED LOGISTIC ITEMS**

4.1 **Contractor Documentation and Integrated Logistic Items**

4.1.1 **Documents Supplied to the Technical Authority**

(a) **Data Summary**

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) **Manuals for Approval**

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) **Photographs and Line Drawings**

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background;
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format; and
- vi Photographs **shall** have a resolution of at least eight (8) Mega pixels.



- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
- i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
- i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.



4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD, DVD or **Equivalent shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.



4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

(b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.



(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.





(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;



- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor **shall** supply a maintenance training course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;



- vi The troubleshooting course **shall** be supplied at the delivery destination;
  - vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
  - viii After completion of the troubleshooting course, the Contractor **shall** 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.
- (f) Training - Troubleshooting - French
- i The Contractor **shall** supply a troubleshooting course in French;
  - ii The instructor **shall** be an OEM Factory Certified Training Provider;
  - iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
  - iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
  - v The troubleshooting course **shall** accommodate up to eight (8) maintenance personnel;
  - vi The troubleshooting course **shall** be supplied at the delivery destination;
  - vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
  - viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

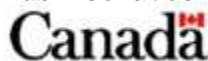
Date \_\_\_\_\_

---

OPI DSVPM 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



FORKLIFT, ELECTRIC, 3 WHEELS

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_

---

OPI DSVPM 4 -DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_

(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(i) **Tine Position Guide - Proof of Compliance**  
Make \_\_\_\_\_ - Model \_\_\_\_\_  
Details on page \_\_\_\_\_ of document \_\_\_\_\_





FORKLIFT, ELECTRIC, 4 WHEELS

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

### **Annex C – Group 3 - Stand up rider forklifts**

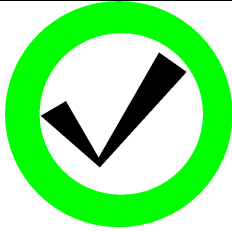
The Annex C is composed of the following Appendix:

Appendix C1: Purchase Descriptions for Group 3A - Truck, Fork, Stand-up Rider, Reach and Tier, Electric;

Appendix C2: Purchase Descriptions for Group 3B - Truck, Fork, Stand-up Rider, Counterbalance, Electric;

Appendix C3: Technical Information Questionnaires for Group 3A Configuration A, B, and C;

Appendix C4: Technical Information Questionnaires for Group 3B Configuration A, B, and C.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for straddle leg electric motor driven narrow aisle forklift trucks with a stand-up rider with reaching forks with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this Purchase Description;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement



FORKLIFT, STAND-UP RIDER, REACH AND TIER

as meeting the specified requirements for fit, form, function and performance; and

- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC			PARAGRAPH	UNITS	CONFIGURATION		
					A	B	C
LIFT CAPACITY			3.4.1 (a)	kg	1,355	1,580	2,265
				lbs	3,000	3,500	4,500
STANDARD MAST	LIFT HEIGHT		3.4.1 (b)	mm	4,875	4,875	4,875
				in	192	192	192
	VEHICLE HEIGHT		3.4.1 (c)	mm	2,275	2,275	2,275
				in	89.5	89.5	89.5
REACH			3.4.1 (e)	mm	1,067	505	505
				in	42	20	20
FORK LENGTH			3.5 (b)	mm	1,015	1,015	1,015
				in	40	40	40
MINIMUM SEPARATION			3.5 (d)	mm	865	865	865
				in	34	34	34
MAXIMUM SEPARATION				mm	1,240	1,240	1,240
				in	49	49	49
MAST 2	LIFT HEIGHT		3.5.1 (a)	mm	6,095	6,095	6,095
				in	240	240	240
	VEHICLE HEIGHT			mm	2,745	2,745	2,745
				in	108	108	108
MAST 3	LIFT HEIGHT		3.5.1 (b)	mm	6,855	6,855	6,855
				in	270	270	270
	VEHICLE HEIGHT			mm	3,050	3,050	3,050
				in	120	120	120
MAST 4	LIFT HEIGHT		3.5.1 (c)	mm	7,620	7,620	7,620
				in	300	300	300
	VEHICLE HEIGHT			mm	3,355	3,355	3,355
				in	132	132	132
MAST 5	LIFT HEIGHT		3.5.1 (d)	mm	9,295	9,295	9,295
				in	366	366	366
	VEHICLE HEIGHT			mm	4,115	4,115	4,115
				in	162	162	162
BATTERY CAPACITY			3.15 (b)	kWh	26	26	26



FORKLIFT, STAND-UP RIDER, REACH AND TIER

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION		
		A	B	C
"EE" Safety Rating Feature	3.3.4	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
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
Working Lights	3.16.1 (a)	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X



FORKLIFT, STAND-UP RIDER, REACH AND TIER

**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks  
Underwriters' Laboratories of Canada  
7 Underwriters Road,  
Toronto, Ontario, M1R 3A9  
<http://www.ulc.ca/>

Hazardous Products Act

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



FORKLIFT, STAND-UP RIDER, REACH AND TIER

3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** 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 Vehicle Safety - All vehicle design and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle **shall** be a straddle-type stand-up rider forklift with a reach mechanism.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, **shall** have a lift capacity, at a 610 mm load centre, of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4);
- (b) The vehicle **shall** have a lift height of at least that given as "**STANDARD MAST - LIFT HEIGHT**" in the Data Table (paragraph 1.4), when measured from the floor to the top surface of the forks in the full-up position;
- (c) The vehicle, with the standard mast in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**STANDARD MAST - VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- (d) The vehicle **shall** have a reach depth of at least that given as "**REACH**" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle **shall** be provided with a telescopic mast; and
- ii The standard mast **shall** have full free lift.

(b) Forks - The vehicle **shall** be provided with forks having a nominal fork length of "**FORK LENGTH**" as given in the Data Table (paragraph 1.4);

(c) Load Backrest - The load backrest **shall** have a nominal height of 1,219 mm (48 inches);

(d) Straddle Legs

- i The vehicle **shall** 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 Data Table (paragraph 1.4);
- ii The straddle separation is defined as the distance between straddle legs inside edges, preferably in increments of 50 mm; and
- iii The straddle separation, which **shall** be provided to a destination will be stated in the call-up, if no separation is stated in the call-up then the maximum separation **shall** be provided.

(e) Reach Mechanism

- i The vehicle **shall** be provided with a mechanism capable of moving the load forward, with the forklift stationary; and
- ii The mechanism **shall** move the forks forward a distance of at least that given as "**REACH**" in the Data Table (paragraph 1.4).

(f) Fork Tine Position Guide

- i The vehicle **shall** be provided with a fork tine position guide;





FORKLIFT, STAND-UP RIDER, REACH AND TIER

- ii The fork tine position guide **shall** be permanently attached to the backrest;
- iii The fork tine position guide **shall** use a laser to create a line that shows the level of the top of the fork tines;
- iv The fork tine position guide **shall** be connected to the vehicle electrical system;
- v The fork tine position guide **shall** automatically turn off when the vehicle is turned off; and
- vi The fork tine position guide **shall** automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.

3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** have full free lift;
- iii Mast no. 2 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** have full free lift;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(c) Mast no. 4

- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 **shall** have full free lift;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4); and



FORKLIFT, STAND-UP RIDER, REACH AND TIER

iv The vehicle, with mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(d) Mast no. 5

i The vehicle **shall** be provided with mast no. 5, in lieu of the standard mast (paragraph 3.5 (a));

ii Mast no. 5 **shall** have full free lift;

iii Mast no. 5 **shall** 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 Data Table (paragraph 1.4); and

iv The vehicle, with mast no. 5 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 5**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(e) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 mm to both sides of the centreline.

3.6 Operator Station

(a) The vehicle **shall** be provided with an operator station with an overhead guard that allows full load visibility;

(b) The overhead guard **shall** be provided with steel bars or **Equivalent** mounted to protect the operator from falling objects;

(c) The vehicle **shall** have a clearance of at least 1,995 mm (78.5 inches) between the floor and the underside of the overhead guard; and

(d) The operator station **shall** 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.

3.7 Chassis - *Commercially Equipped*

3.8 Motors - *Commercially Equipped*

3.9 Transmission - *Commercially Equipped*

3.10 Brake System

(a) The brake system **shall** conform to CSA B335; and

(b) The brakes **shall** 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 - *Commercially Equipped*

3.14 Instruments - The instruments **shall** 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.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

3.14.1 Instruments Features and Accessories

(a) Weigh Scale

- i The vehicle **shall** be provided with a weigh scale with an accuracy of at most 2 percent of the forklift lift capacity; and
- ii The weigh scale **shall** be provided with a digital readout with zeroing capability.

3.15 Electrical System

- (a) The vehicle **shall** be provided with an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries **shall** have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4);
- (c) The vehicle **shall** be provided with a backup alarm to alert personnel that the vehicle is in backup mode; and
- (d) The vehicle **shall** be provided with battery compartment rollers to allow the rapid changing of the batteries.

3.15.1 Electrical Features and Accessories

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

3.16 Lighting

(a) Flashing Beacon

- i The vehicle **shall** be provided with a red flashing beacon light mounted on the rear of the vehicle; and
- ii The red flashing beacon **shall** be activated when the vehicle travels in reverse.

3.16.1 Lighting Features and Accessories

- (a) Working Lights - The vehicle **shall** be provided with the manufacturer's working light package.

3.17 Hydraulic System - Commercially Equipped



FORKLIFT, STAND-UP RIDER, REACH AND TIER

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle **shall** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** 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, **shall** be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents supplied to the Technical Authority

(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD, DVD or **Equivalent shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those provided to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

(b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.





FORKLIFT, STAND-UP RIDER, REACH AND TIER

(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.



FORKLIFT, STAND-UP RIDER, REACH AND TIER

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;



FORKLIFT, STAND-UP RIDER, REACH AND TIER

- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor **shall** supply a maintenance training course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;

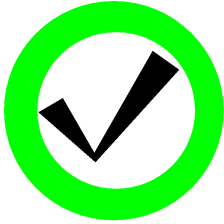


FORKLIFT, STAND-UP RIDER, REACH AND TIER

- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

- i The Contractor **shall** supply a troubleshooting course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for counterbalanced electric motor driven narrow aisle forklift trucks with a stand-up rider with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this Purchase Description;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance; and

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

(c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes 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	3.4.1 (c)	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



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION		
		A	B	C
"EE" Safety Rating Feature	3.3.4	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 (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
Working Lights	3.16.1 (a)	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks  
Underwriters' Laboratories of Canada  
7 Underwriters Road,  
Toronto, Ontario, M1R 3A9  
<http://www.ulc.ca/>

Hazardous Products Act

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





FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** 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 Vehicle Safety - All vehicle design and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle **shall** be a counterbalanced stand-up rider forklift.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, *shall* have a lift capacity at a 610 mm load centre of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4);
- (b) The vehicle *shall* 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 Data Table (paragraph 1.4); and
- (c) The vehicle, with the standard mast in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "**STANDARD MAST**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle *shall* be provided with a telescopic mast; and
- ii The standard mast *shall* have full free lift.

(b) Forks - The vehicle *shall* be provided with forks having a nominal fork length of "**FORK LENGTH**" as given in the Data Table (paragraph 1.4);

(c) Load Backrest - The load backrest *shall* have a nominal height of 1,219 mm (48 inches);

(d) Fork Tine Position Guide

- i The vehicle *shall* be provided with a fork tine position guide;
- ii The fork tine position guide *shall* be permanently attached to the backrest;
- iii The fork tine position guide *shall* use a laser to create a line that shows the level of the top of the fork tines;
- iv The fork tine position guide *shall* be connected to the vehicle electrical system;
- v The fork tine position guide *shall* automatically turn off when the vehicle is turned off; and
- vi The fork tine position guide *shall* automatically turn off when the forks are within 2,130 mm (84 inches) of ground level.

3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle *shall* be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 *shall* have full free lift;
- iii Mast no. 2 *shall* have a lift height, measured from the floor to the top surface of the forks in the full-up



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

- position, of at least that given as "MAST 2" - "LIFT HEIGHT" in the Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "MAST 2" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).
- (b) Mast no. 3
- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** have full free lift;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "MAST 3" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).
- (c) Mast no. 4
- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 **shall** have full free lift;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "MAST 4" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).
- (d) Mast no. 5
- i The vehicle **shall** be provided with mast no. 5, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 5 **shall** have full free lift;
- iii Mast no. 5 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 5 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "MAST 5" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).
- (e) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 mm to both sides of the centreline.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

3.6 Operator Station

- (a) The vehicle **shall** be provided with an operator station with an overhead guard that allows full load visibility;
- (b) The overhead guard **shall** be provided with steel bars or **Equivalent** mounted to protect the operator from falling objects;
- (c) The vehicle **shall** have a clearance of at least 1,990 mm (78.5 inches) between the floor and the underside of the overhead guard; and
- (d) The operator station **shall** 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.

3.7 Chassis - Commercially Equipped

3.8 Motors - Commercially Equipped

3.9 Transmission - Commercially Equipped

3.10 Brake System

- (a) The brake system **shall** conform to CSA B335; and
- (b) The brakes **shall** 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 **shall** 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 **shall** 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

(a) Weigh Scale

- i The vehicle **shall** be provided with a weigh scale with an accuracy of at most 2 percent of the lift capacity; and
- ii The weigh scale **shall** be provided with a digital readout with zeroing capability.

3.15 Electrical System

- (a) The vehicle **shall** be provided with an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries **shall** have a capacity of at least "**BATTERY CAPACITY**" as given in the Data Table (paragraph 1.4);
- (c) The vehicle **shall** be provided with a backup alarm to alert personnel that the vehicle is in backup mode; and



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

- (d) The vehicle **shall** be provided with battery compartment rollers to allow the rapid changing of the batteries.

3.15.1 Electrical Features and Accessories

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

3.16 Lighting

- (a) Flashing Beacon
  - i The vehicle **shall** be provided with a red flashing beacon light mounted on the rear of the vehicle; and
  - ii The red flashing beacon **shall** be activated when the vehicle travels in reverse.

3.16.1 Lighting Features and Accessories

- (a) Working Lights - The vehicle **shall** be provided with the manufacturer's working light package.

3.17 Hydraulic System - Commercially Equipped

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle **shall** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** be responsible for all manpower and equipment to perform assembly;



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

- (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, **shall** be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents supplied to the Technical Authority

(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i An customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.





FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD, DVD or **Equivalent shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those provided to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

(b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

(g) Digital Parts Manual

- i A searchable digital part manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

designated contact person for vehicles shipped to users other than DND;

viii After completion of the maintenance training course, the Contractor **shall** have the "**PROOF OF MAINTAINER TRAINING**" certificate signed by the senior course attendee; and

ix The **Technical Authority** will supply the "**PROOF OF MAINTAINER TRAINING**" document template in a digital format.

(d) Training - Maintenance - French

i The Contractor **shall** supply a maintenance training course in French;

ii The instructor **shall** be an OEM Factory Certified Training Provider;

iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;

iv The maintenance training course **shall** have a minimum duration of four (4) days;

v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;

vi The maintenance training course **shall** be supplied at the delivery destination;

vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;

viii After completion of the maintenance training course, the Contractor **shall** have the "**PROOF OF MAINTAINER TRAINING**" certificate signed by the senior course attendee; and

ix The **Technical Authority** will supply the "**PROOF OF MAINTAINER TRAINING**" document template in a digital format.

(e) Training - Troubleshooting - English

i The Contractor **shall** supply a troubleshooting course in English;

ii The instructor **shall** be an OEM Factory Certified Training Provider;

iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;

iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;

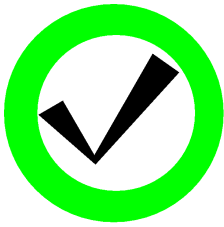


FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

- i The Contractor **shall** supply a troubleshooting course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the fault detection training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense





**FORKLIFT, STAND-UP RIDER, REACH AND TIER**

**Substitutes/Alternatives**

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

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

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
 Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
 (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_  
 (d) Reach on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Straddle Legs - Proof of Compliance**  
 Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_  
 Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

(e) **Reach Mechanism - Proof of Compliance**  
 Reach on page \_\_\_\_\_ of document \_\_\_\_\_

(f) **Tine Position Guide - Proof of Compliance**  
 Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_





FORKLIFT, STAND-UP RIDER, REACH AND TIER

- (c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_
- (d) **Mast no. 5 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**FORKLIFT, STAND-UP RIDER, REACH AND TIER**

**Substitutes/Alternatives**

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

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

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
 Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
 (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_  
 (d) Reach on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Straddle Legs - Proof of Compliance**  
 Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_  
 Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

(e) **Reach Mechanism - Proof of Compliance**  
 Reach on page \_\_\_\_\_ of document \_\_\_\_\_

(f) **Tine Position Guide - Proof of Compliance**  
 Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



FORKLIFT, STAND-UP RIDER, REACH AND TIER

- (c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_
- (d) **Mast no. 5 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**FORKLIFT, STAND-UP RIDER, REACH AND TIER**

**Substitutes/Alternatives**

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

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

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
 Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
 (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_  
 (d) Reach on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Straddle Legs - Proof of Compliance**  
 Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_  
 Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

(e) **Reach Mechanism - Proof of Compliance**  
 Reach on page \_\_\_\_\_ of document \_\_\_\_\_

(f) **Tine Position Guide - Proof of Compliance**  
 Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



FORKLIFT, STAND-UP RIDER, REACH AND TIER

- (c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_
- (d) **Mast no. 5 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



FORKLIFT, STAND-UP RIDER, REACH AND TIER

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense





**FORKLIFT, STAND-UP RIDER, COUNTERBALANCE**

**Substitutes/Alternatives**

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

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

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
 Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
 (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Tine Position Guide - Proof of Compliance**  
 Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(d) **Mast no. 5 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_





**FORKLIFT, STAND-UP RIDER, COUNTERBALANCE**

**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

- (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_
- (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_
- (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Tine Position Guide - Proof of Compliance**

Make \_\_\_\_\_ - Model \_\_\_\_\_

Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(d) **Mast no. 5 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height on page \_\_\_\_\_ of document \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**FORKLIFT, STAND-UP RIDER, COUNTERBALANCE**

**Substitutes/Alternatives**

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

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

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
 Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
 (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Tine Position Guide - Proof of Compliance**  
 Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(d) **Mast no. 5 - Proof of Compliance**  
 Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
 Mast - Model \_\_\_\_\_  
 Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
 Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



FORKLIFT, STAND-UP RIDER, COUNTERBALANCE

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

## **Annex D – Group 4 - Walkie stackers**

The Annex D is composed of the following Appendix:

- Appendix D1: Purchase Descriptions for Group 4A - Truck, Forklift, Walkie Stacker, Straddle Type;
- Appendix D2: Purchase Descriptions for Group 4B - Truck, Forklift, Walkie Stacker, Straddle Type with Reach;
- Appendix D3: Purchase Descriptions for Group 4C - Truck, Forklift, Walkie Stacker, Counterbalance Type;
- Appendix D4: Technical Information Questionnaires for Group 4A Configuration A, B, and C;
- Appendix D5: Technical Information Questionnaires for Group 4B Configuration A, and B;
- Appendix D6: Technical Information Questionnaires for Group 4C Configuration A, B, and C.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for electric straddle walkie stackers with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance; and

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



**FORKLIFT, WALKIE STACKER, STRADDLE TYPE**

(c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC		PARAGRAPH	UNITS	CONFIGURATION		
				A	B	C
LIFT CAPACITY		3.4.1 (a)	kg	905	1,355	1,805
			lb	2,000	3,000	4,000
STANDARD MAST - LIFT HEIGHT		3.4.1 (b)	mm	3,200	3,200	3,145
			in	126	126	124
VEHICLE HEIGHT		3.4.1 (c)	mm	2,340	2,185	2,185
			in	92	86	86
FORK LENGTH		3.5 (b)	mm	1,067	1,067	1,067
			in	42	42	42
MINIMUM SEPARATION		3.5 (d)	mm	940	940	940
			in	37	37	37
MAXIMUM SEPARATION			mm	1,245	1,245	1,245
			in	49	49	49
MAST 2	LIFT HEIGHT	3.5.1 (a)	mm	2,435	2,435	2,540
			in	96	96	100
	VEHICLE HEIGHT		mm	1,920	1,935	2,110
			in	75 ½	76	83
MAST 3	LIFT HEIGHT	3.5.1 (b)	mm	3,655	3,655	3,655
			in	144	144	144
	VEHICLE HEIGHT		mm	2,440	2,440	2,440
			in	96	96	96
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm			4,300
			in			169 ½
	VEHICLE HEIGHT		mm			2,290
			in			90
BATTERY CAPACITY		3.15 (a)	kWh	10	10	10



**FORKLIFT, WALKIE STACKER, STRADDLE TYPE**

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which **shall** become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION		
		A	B	C
"EE" Safety Rating Feature	3.3.4	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
Side Shifter	3.5.1 (e)	X	X	X
Cold Storage Preparation	3.5.1 (d)	X	X	X
120 V, Single Phase Charger	3.15.1 (a)	X	X	X
220 V, Single Phase Charger	3.15.1 (b)	X	X	X
220 V, 3 Phase Charger	3.15.1 (c)	X	X	X
440 V, 3 Phase Charger	3.15.1 (d)	X	X	X
550 V, 3 Phase Charger	3.15.1 (e)	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks

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

Hazardous Products Act

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





FORKLIFT, WALKIE STACKER, STRADDLE TYPE

3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** 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 Vehicle Safety - All vehicle design and safety **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle **shall** be a straddle-type walkie stacker.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, **shall** have a lift capacity at a 610 mm load centre of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4);
- (b) The vehicle **shall** 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 Data Table (paragraph 1.4); and
- (c) The vehicle, with the standard mast in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle **shall** be provided with a telescopic mast; and
- ii The standard mast **shall** have full free lift.

(b) Forks - The vehicle **shall** be provided with forks having a nominal fork length of "**FORK LENGTH**" as given in the Data Table (paragraph 1.4);

(c) Load Backrest - The load backrest **shall** have a nominal height of 1,219 mm (48 inches); and

(d) Straddle Legs

- i The vehicle **shall** 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 Data Table (paragraph 1.4);
- ii The straddle separation is defined as the distance between straddle legs inside edges, preferably in increments of 50 mm; and
- iii The straddle separation **shall** be provided when stated in the call-up, if no separation is stated in the call-up then the maximum separation **shall** be provided.

3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** have full free lift;
- iii Mast no. 2 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

ground level of that given as "MAST 2" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** have full free lift;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "MAST 3" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).

(c) Mast no. 4

- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 **shall** have full free lift;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "MAST 4" - "VEHICLE HEIGHT" in the Data Table (paragraph 1.4).

(d) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 mm to both sides of the centerline; and

(e) Cold Storage Preparation

- i The vehicle **shall** be provided with preparation for operations in a refrigerated warehouse; and
- ii The preparations **shall** include low temperature lubricants, anti-seize compounds, hydraulic fluids and heated and/or sealed switches and controls.

3.6 Operator/Forklift Body Clearance - Sufficient clearance beneath the vehicle **shall** be provided so operator's feet cannot be trapped entering or leaving ramps.

3.7 Chassis - *Commercially Equipped*

3.8 Motors - *Commercially Equipped*

3.9 Transmission - *Commercially Equipped*

3.10 Brake System

(a) The brake system **shall** conform to CSA B335, or an **Equivalent**;



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

- (b) The brakes **shall** be automatically applied when the steering handle is no less than 5 degrees from the true vertical and horizontal positions;
- (c) When the steering handle is released from the operating position, it **shall** return to a vertical braking position;
- (d) The braking system **shall** be interlocked by a relay; and
- (e) The braking system **shall** disconnect the traction motor power when the brakes are applied.

3.11 Steering

- (a) The vehicle steering system **shall** be through the drive wheel using a steering handle equipped with comfortable handgrips;
- (b) The steering handle, in the horizontal position, **shall** protrude at least 610 mm from the rear of the truck;
- (c) The steering handle **shall** turn the drive wheel assembly at least 90 degrees in each direction from the straight-ahead position; and
- (d) The steering handle **shall** automatically return to the vertical position when released from the operating position.

3.12 Tires - Commercially Equipped

3.13 Controls

- (a) The vehicle **shall** be provided with an electronic speed controller providing infinitely variable speed control in both directions mounted in the steering handle;
- (b) The automatic controls **shall** be provided with an emergency-reversing button mounted at the end of the steering handle;
- (c) The emergency-reversing button **shall** immediately reverse the vehicle direction of motion when depressed to protect the operator from injury during close quarter manoeuvring; and
- (d) The lift controls **shall** be self-centring and **shall** be interconnected so they cannot be operated with the steering handle in travel position.

3.14 Instruments - The instruments **shall** 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.

3.15 Electrical System

- (a) The vehicle **shall** be provided with an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries **shall** have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (c) The vehicle **shall** be provided with a back-up alarm to alert personnel that the vehicle is in back-up mode.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

3.15.1 Electrical Features and Accessories

- (a) 120 V, Single Phase Charger - A charger *shall* be supplied for connection to a 120-volt, single phase, 60Hz power source;
- (b) 220 V, Single Phase Charger - A charger *shall* be supplied for connection to a 220-volt, single phase, 60Hz power source;
- (c) 220 V, 3 Phase Charger - A charger *shall* be supplied for connection to a 220-volt, three phase, 60Hz power source;
- (d) 440 V, 3 Phase Charger - A charger *shall* be supplied for connection to a 440-volt, three phase, 60Hz power source; and
- (e) 550 V, 3 Phase Charger - A charger *shall* be supplied for connection to a 550-volt, three phase, 60Hz power source.

3.16 Lighting - Commercially Equipped

3.17 Hydraulic System - Commercially Equipped

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle *shall* operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle *shall* conform to SAE J534.

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number *shall* be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle *shall* be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior *shall* be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor *shall* 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, *shall* be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery *shall* be suitable for the destination and the season of delivery.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents Supplied to the Technical Authority

(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manuals

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.





FORKLIFT, WALKIE STACKER, STRADDLE TYPE

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

(b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or



FORKLIFT, WALKIE STACKER, STRADDLE TYPE

designated contact person for vehicles shipped to users other than DND;

viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and

ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

i The Contractor **shall** supply a maintenance training course in French;

ii The instructor **shall** be an OEM Factory Certified Training Provider;

iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;

iv The maintenance training course **shall** have a minimum duration of four (4) days;

v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;

vi The maintenance training course **shall** be supplied at the delivery destination;

vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;

viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and

ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(e) Training - Troubleshooting - English

i The Contractor **shall** supply a troubleshooting course in English;

ii The instructor **shall** be an OEM Factory Certified Training Provider;

iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;

iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;

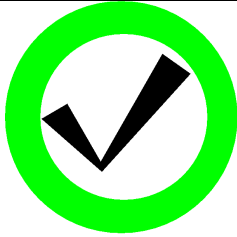


FORKLIFT, WALKIE STACKER, STRADDLE TYPE

- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

- i The Contractor **shall** supply a troubleshooting course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for straddle reach walkie stackers with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense

RDIMS # 3741261

© 2016 DND/MDN Canada

Page 1 of 17



as meeting the specified requirements for fit, form, function and performance; and

- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC			CONFIGURATION		
			A	B	
LIFT CAPACITY	3.4.1 (a)	kg	905	1,355	
		lb	2,000	3,000	
STANDARD MAST - LIFT HEIGHT	3.4.1 (b)	mm	3,045	3,045	
		in	120	120	
VEHICLE HEIGHT	3.4.1 (c)	mm	2,135	2,135	
		in	84	84	
REACH	3.4.1 (d)	mm	505	505	
		in	20	20	
FORK LENGTH	3.5 (b)	mm	1,067	1,067	
		in	42	42	
MINIMUM SEPARATION	3.5 (d)	mm	940	940	
		in	37	37	
MAXIMUM SEPARATION		mm	1,244	1,244	
		in	49	49	
MAST 2	3.5.1 (a)	LIFT HEIGHT	mm		2,435
			in		96
		VEHICLE HEIGHT	mm		2,010
			in		79
MAST 3	3.5.1 (b)	LIFT HEIGHT	mm	3,755	3,780
			in	148	149
		VEHICLE HEIGHT	mm	2,390	2,390
			in	94	94
MAST 4	3.5.1 (c)	LIFT HEIGHT	mm	4,365	4,365
			in	172	172
		VEHICLE HEIGHT	mm	2,265	2,265
			in	89	89
BATTERY CAPACITY		3.15 (b)	kWh	10	10



1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION	
		A	B
"EE" Safety Rating Feature	3.3.4	X	X
Mast no. 2	3.5.1 (a)		X
Mast no. 3	3.5.1 (b)	X	X
Mast no. 4	3.5.1 (c)	X	X
Side Shifter	3.5.1 (d)	X	X
Cold Storage Preparation	3.5.1 (e)	X	X
120 V, Single Phase Charger	3.15.1 (a)	X	X
220 V, Single Phase Charger	3.15.1 (b)	X	X
220 V, 3 Phase Charger	3.15.1 (c)	X	X
440 V, 3 Phase Charger	3.15.1 (d)	X	X
550 V, 3 Phase Charger	3.15.1 (e)	X	X
Initial Parts Kit	4.1.4 (a)	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X
Paper Parts Manual	4.1.4 (f)	X	X
Digital Parts Manual	4.1.4 (g)	X	X
Training - Familiarization - English	4.2 (a)	X	X
Training - Familiarization - French	4.2 (b)	X	X
Training - Maintenance - English	4.2 (c)	X	X
Training - Maintenance - French	4.2 (d)	X	X
Training - Troubleshooting - English	4.2 (e)	X	X
Training - Troubleshooting - French	4.2 (f)	X	X





2. **APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks

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

Hazardous Products Act

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



3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle *shall* be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle *shall* include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle *shall* have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle *shall* conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories *shall* operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle *shall* operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle *shall* 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 Vehicle Safety - All vehicle design and safety aspects *shall* be in accordance with CSA B335 or an *Equivalent*.

3.3.2 Hazardous Materials - The Contractor *shall* 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle *shall* be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an *Equivalent*.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle *shall* 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating *shall* be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle *shall* be straddle-type walkie stacker with powered movement and reach.



3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, *shall* have a lift capacity at a 610 mm load centre of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4);
- (b) The vehicle *shall* 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 Data Table (paragraph 1.4);
- (c) The vehicle, with the standard mast in its lowest position, *shall* pass under a horizontal beam with a height above ground level of that given as "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4); and
- (d) The vehicle *shall* have a reach depth of at least that given as "**REACH**" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle *shall* be provided with a telescopic mast; and
- ii The standard mast *shall* have full free lift.

(b) Forks - The vehicle *shall* be provided with forks having a nominal fork length of "**FORK LENGTH**" as given in the Data Table (paragraph 1.4);

(c) Load Backrest - The load backrest *shall* have a nominal height of 1,219 mm (48 inches);

(d) Straddle Legs

- i The vehicle *shall* 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 Data Table (paragraph 1.4);
- ii The straddle separation is defined as the distance between straddle legs inside edges, preferably in increments of 50 mm; and
- iii The straddle separation *shall* be provided when stated in the call-up, if no separation is stated in the call-up then the maximum separation *shall* be provided.

(e) Reach Mechanism

- i The vehicle *shall* be provided with a mechanism capable of moving the load forward, with the forklift stationary; and
- ii The mechanism *shall* move the forks forward a distance of at least that given as "**REACH**" in the Data Table (paragraph 1.4).



3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** have full free lift;
- iii Mast no. 2 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** have full free lift;
- iii Mast no. 3 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(c) Mast no. 4

- i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 4 **shall** have full free lift;
- iii Mast no. 4 **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

- (d) Side Shifter - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 mm to both sides of the centerline; and

(e) Cold Storage Preparation

- i The vehicle **shall** be provided with preparation for operations in a refrigerated warehouse; and
- ii The preparations **shall** include low temperature lubricants, anti-seize compounds, hydraulic fluids and heated and/or sealed switches and controls.



- 3.6 Operator/Forklift Body Clearance - Sufficient clearance beneath the vehicle **shall** be provided so operator's feet cannot be trapped entering or leaving ramps.
- 3.7 Chassis - *Commercially Equipped*
- 3.8 Motors - *Commercially Equipped*
- 3.9 Transmission - *Commercially Equipped*
- 3.10 Brake System
- (a) The brake system **shall** conform to CSA B335, or an **Equivalent**;
  - (b) The brakes **shall** be automatically applied when the steering handle is no less than 5 degrees from the true vertical and horizontal positions;
  - (c) When the steering handle is released from the operating position, it **shall** return to a vertical braking position;
  - (d) The braking system **shall** be interlocked by a relay; and
  - (e) The braking system **shall** disconnect the traction motor power when the brakes are applied.
- 3.11 Steering
- (a) The vehicle steering system **shall** be through the drive wheel using a steering handle equipped with comfortable handgrips;
  - (b) The steering handle, in the horizontal position, **shall** protrude by at least 610 mm from the rear of the truck;
  - (c) The steering handle **shall** turn the drive wheel assembly at least 90 degrees in each direction from the straight-ahead position; and
  - (d) The steering handle **shall** automatically return to the vertical position when released from the operating position.
- 3.12 Tires - *Commercially Equipped*
- 3.13 Controls
- (a) The vehicle **shall** be provided with an electronic speed controller providing infinitely variable speed control in both directions mounted in the steering handle;
  - (b) The automatic controls **shall** be provided with an emergency-reversing button mounted at the end of the steering handle;
  - (c) The emergency-reversing button **shall** immediately reverse the vehicle direction of motion when depressed to protect the operator from injury during close quarter manoeuvring; and
  - (d) The lift controls **shall** be self-centring and **shall** be interconnected so they cannot be operated with the steering handle in travel position.
- 3.14 Instruments - The instruments **shall** 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.



3.15 Electrical System

- (a) The vehicle *shall* be provided an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries *shall* have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (c) The vehicle *shall* be provided with a backup alarm to alert personnel that the vehicle is in back-up mode.

3.15.1 Electrical Features and Accessories

- (a) 120 V, Single Phase Charger - A charger *shall* be supplied for connection to a 120-volt, single phase, 60Hz power source;
- (b) 220 V, Single Phase Charger - A charger *shall* be supplied for connection to a 220-volt, single phase, 60Hz power source;
- (c) 220 V, 3 Phase Charger A charger *shall* be supplied for connection to a 220-volt, three phase, 60Hz power source;
- (d) 440 V, 3 Phase Charger - A charger *shall* be supplied for connection to a 440-volt, three phase, 60Hz power source; and
- (e) 550 V, 3 Phase Charger - A charger *shall* be supplied for connection to a 550-volt, three phase, 60Hz power source.

3.16 Lighting - *Commercially Equipped*

3.17 Hydraulic System - *Commercially Equipped*

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle *shall* operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle *shall* conform to SAE J534.

3.19 Paint - *Commercially Equipped*

3.20 Identification - The manufacturer's name, model and vehicle serial number *shall* be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle *shall* be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior *shall* be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor *shall* 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, *shall* be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery *shall* be suitable for the destination and the season of delivery.



4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents Supplied to the Technical Authority

(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;



(e) Material Safety Data Sheets

- i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
- ii If there are no hazardous materials used, this **shall** be stated on the list; and
- iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.

(f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and

(g) Customer Support Package

- i A customer support package, in digital format, **shall** be supplied;
- ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
- iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
- iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
- v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
- vi The Configuration document **shall** include a list of equipment/features that compromise the basic specified vehicle including any related product code required on the manufacturer's basic model;
- vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
- viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
- ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;





- iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

- (b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;



- (c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (d) Digital Maintenance Manual - English
- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.
- (e) Digital Maintenance Manual - French
- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.
- (f) Paper Parts Manual
- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
  - ii The parts manual **shall** be in English; and
  - iii It is desirable to provide the parts manual in French in addition to the English version.
- (g) Digital Parts Manual
- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The parts manual **shall** be in English;
  - iv It is desirable to provide the parts manual in French in addition to the English version;
  - v The digital format **shall** not require a password or an Internet connection to be functional; and



- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

#### 4.2 Training

##### (a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

##### (b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;



- vii The familiarization course *shall* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *shall* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor *shall* have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor *shall* supply a maintenance training course in English;
- ii The instructor *shall* be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum *shall* include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course *shall* have a minimum duration of four (4) days;
- v The maintenance training course *shall* accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course *shall* be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course *shall* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor *shall* have the "PROOF OF MAINTAINER TRAINING" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "PROOF OF MAINTAINER TRAINING" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor *shall* supply a maintenance training course in French;
- ii The instructor *shall* be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum *shall* include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;



- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "**PROOF OF MAINTAINER TRAINING**" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "**PROOF OF MAINTAINER TRAINING**" document template in a digital format.

(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

- i The Contractor **shall** supply a troubleshooting course in French;



- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for counterbalance walkie stacker with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance; and



**FORKLIFT, WALKIE STACKER, COUNTERBALANCE**

(c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial Configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC		PARAGRAPH	UNITS	CONFIGURATION		
				A	B	C
LIFT CAPACITY		3.4.1 (a)	kg	905	1,355	1,805
			lb	2,000	3,000	4,000
STANDARD MAST - LIFT HEIGHT		3.4.1 (b)	mm	3,655	3,810	3,755
			in	144	150	148
VEHICLE HEIGHT		3.4.1 (c)	mm	2,365	2,440	2,440
			in	93	96	96
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	2,640	2,640	2,640
			in	104	104	104
	VEHICLE HEIGHT		mm	1,985	1,985	1,985
			in	78	78	78
MAST 3	LIFT HEIGHT	3.5.1 (b)	mm	3,045	3,200	3,045
			in	120	126	120
	VEHICLE HEIGHT		mm	2,110	2,110	2,110
			in	83	83	83
MAST 4	LIFT HEIGHT	3.5.1 (c)	mm	4,060	4,365	4,060
			in	160	172	160
	VEHICLE HEIGHT		mm	2,720	2,720	2,720
			in	107	107	107
BATTERY CAPACITY		3.15 (b)	kWh	10	10	10





FORKLIFT, WALKIE STACKER, COUNTERBALANCE

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION		
		A	B	C
"EE" Safety Rating Feature	3.3.4	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
Side Shifter	3.5.1 (d)	X	X	X
Cold Storage Preparation	3.5.1 (e)	X	X	X
120 V, Single Phase Charger	3.15.1 (a)	X	X	X
220 V, Single Phase Charger	3.15.1 (b)	X	X	X
220 V, 3 Phase Charger	3.15.1 (c)	X	X	X
440 V, 3 Phase Charger	3.15.1 (d)	X	X	X
550 V, 3 Phase Charger	3.15.1 (e)	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X
Training - Maintenance - English	4.2 (c)	X	X	X
Training - Maintenance - French	4.2 (d)	X	X	X
Training - Troubleshooting - English	4.2 (e)	X	X	X
Training - Troubleshooting - French	4.2 (f)	X	X	X



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

**2. APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

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

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks

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

Hazardous Products Act

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



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** 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 Vehicle Safety - All vehicle design and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.

3.4 Vehicle - The vehicle **shall** be a counterbalance type walkie stacker with powered movement.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

3.4.1 Forklift Performance

- (a) The vehicle, with the standard mast and no accessories, **shall** have a lift capacity at a 610 mm load centre of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4);
- (b) The vehicle **shall** 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 Data Table (paragraph 1.4); and
- (c) The vehicle, with the standard mast in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

3.5 Equipment

(a) Standard Mast

- i The vehicle **shall** be provided with a telescopic mast; and
  - ii The standard mast **shall** have full free lift.
- (b) Forks - The vehicle **shall** be provided with forks having a nominal fork length of "**FORK LENGTH**" as given in the Data Table (paragraph 1.4);
- (c) Load Backrest - The load backrest **shall** have a nominal height of 1,219 mm (48 inches).

3.5.1 Features and Accessories

(a) Mast no. 2

- i The vehicle **shall** be provided with mast no. 2, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 2 **shall** have full free lift;
- iii The vehicle, with mast no. 2, **shall** 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 Data Table (paragraph 1.4); and
- iv The vehicle, with mast no. 2 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 2**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(b) Mast no. 3

- i The vehicle **shall** be provided with mast no. 3, in lieu of the standard mast (paragraph 3.5 (a));
- ii Mast no. 3 **shall** have full free lift;
- iii The vehicle, with mast no. 3, **shall** 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 Data Table (paragraph 1.4); and



**FORKLIFT, WALKIE STACKER, COUNTERBALANCE**

iv The vehicle, with mast no. 3 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 3**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(c) **Mast no. 4**

i The vehicle **shall** be provided with mast no. 4, in lieu of the standard mast (paragraph 3.5 (a));

ii Mast no. 4 **shall** have full free lift;

iii The vehicle, with mast no. 4, **shall** 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 Data Table (paragraph 1.4); and

iv The vehicle, with mast no. 4 in its lowest position, **shall** pass under a horizontal beam with a height above ground level of that given as "**MAST 4**" - "**VEHICLE HEIGHT**" in the Data Table (paragraph 1.4).

(d) **Side Shifter** - The vehicle **shall** be provided with a side shifter capable of shifting the fully loaded forks simultaneously at least 50 mm to both sides of the centerline; and

(e) **Cold Storage Preparation**

i The vehicle **shall** be provided with preparation for operations in a refrigerated warehouse; and

ii The preparations **shall** include low temperature lubricants, anti-seize compounds, hydraulic fluids and heated and/or sealed switches and controls.

3.6 **Operator/Forklift Body Clearance** - Sufficient clearance beneath the vehicle **shall** be provided so operator's feet cannot be trapped entering or leaving ramps.

3.7 **Chassis** - *Commercially Equipped*

3.8 **Motors** - *Commercially Equipped*

3.9 **Transmission** - *Commercially Equipped*

3.10 **Brake System**

(a) The brake system **shall** conform to CSA B335, or an **Equivalent**;

(b) The brakes **shall** be automatically applied when the steering handle is no less than 5 degrees from the true vertical and horizontal positions;

(c) When the steering handle is released from the operating position, it **shall** return to a vertical braking position;

(d) The braking system **shall** be interlocked by a relay; and

(e) The braking system **shall** disconnect the traction motor power when the brakes are applied.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

3.11 Steering

- (a) The vehicle steering system **shall** be through the drive wheel using a steering handle equipped with comfortable handgrips;
- (b) The steering handle, in the horizontal position, **shall** protrude at least 610 mm from the rear of the truck;
- (c) The steering handle **shall** turn the drive wheel assembly at least 90 degrees in each direction from the straight-ahead position; and
- (d) The steering handle **shall** automatically return to the vertical position when released from the operating position.

3.12 Tires - Commercially Equipped

3.13 Controls

- (a) The vehicle **shall** be provided with an electronic speed controller providing infinitely variable speed control in both directions mounted in the steering handle;
- (b) The automatic controls **shall** be provided with an emergency-reversing button mounted at the end of the steering handle;
- (c) The emergency-reversing button **shall** immediately reverse the vehicle direction of motion when depressed to protect the operator from injury during close quarter manoeuvring; and
- (d) The lift controls **shall** be self-centring and **shall** be interconnected so they cannot be operated with the steering handle in travel position.

3.14 Instruments - The instruments **shall** 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.

3.15 Electrical System

- (a) The vehicle **shall** be provided with an electrical system operating at no less than twenty four (24) volts;
- (b) Batteries **shall** have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (c) The vehicle **shall** be provided with a backup alarm to alert personnel that the vehicle is in back-up mode.

3.15.1 Electrical Features and Accessories

- (a) 120 V, Single Phase Charger - A charger **shall** be supplied for connection to a 120-volt, single phase, 60Hz power source;
- (b) 220 V, Single Phase Charger - A charger **shall** be supplied for connection to a 220-volt, single phase, 60Hz power source;
- (c) 220 V, 3 Phase Charger - A charger **shall** be supplied for connection to a 220-volt, three phase, 60Hz power source;
- (d) 440 V, 3 Phase Charger - A charger **shall** be supplied for connection to a 440-volt, three phase, 60Hz power source; and
- (e) 550 V, 3 Phase Charger - A charger **shall** be supplied for connection to a 550-volt, three phase, 60Hz power source.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

3.16 Lighting - *Commercially Equipped*

3.17 Hydraulic System - *Commercially Equipped*

3.18 Lubricants and Hydraulic Fluids

- (a) The vehicle **shall** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b) Grease fittings provided on the vehicle **shall** conform to SAE J534.

3.19 Paint - *Commercially Equipped*

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor **shall** 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, **shall** be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents Supplied to the Technical Authority

(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.





FORKLIFT, WALKIE STACKER, COUNTERBALANCE

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include the brochures for all features/attachments not supplied by the vehicle manufacturer;
  - iv The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - v The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - vi The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vii The Configuration document **shall** include a list for all additional accessories/features that are specified for that Configuration including, where relevant, the product code and make/model;
  - viii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested; and
  - ix The Contractor **shall** receive approval for the customer support package from the **Technical Authority** prior to distribution.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

4.1.2 Items Supplied with Each Vehicle

(a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
- ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

(c) Material Safety Data Sheets

- i A set of material safety data sheets **shall** be supplied; and
- ii The material safety data sheets **shall** be the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e).

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

(b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;

(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(c) Training - Maintenance - English

- i The Contractor **shall** supply a maintenance training course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "PROOF OF MAINTAINER



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

**TRAINING**" certificate signed by the senior course attendee; and

- ix The **Technical Authority** will supply the "**PROOF OF MAINTAINER TRAINING**" document template in a digital format.

(d) Training - Maintenance - French

- i The Contractor **shall** supply a maintenance training course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The maintenance training course curriculum **shall** include operation and maintenance safety precautions, preventive maintenance including servicing schedules, troubleshooting, testing and adjustments;
- iv The maintenance training course **shall** have a minimum duration of four (4) days;
- v The maintenance training course **shall** accommodate up to eight (8) maintenance personnel;
- vi The maintenance training course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the dates for the maintenance training course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the maintenance training course, the Contractor **shall** have the "**PROOF OF MAINTAINER TRAINING**" certificate signed by the senior course attendee; and
- ix The **Technical Authority** will supply the "**PROOF OF MAINTAINER TRAINING**" document template in a digital format.

(e) Training - Troubleshooting - English

- i The Contractor **shall** supply a troubleshooting course in English;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.

(f) Training - Troubleshooting - French

- i The Contractor **shall** supply a troubleshooting course in French;
- ii The instructor **shall** be an OEM Factory Certified Training Provider;
- iii The troubleshooting course **shall** include detailed testing, troubleshooting, problem analysis and adjustments training;
- iv The troubleshooting course **shall** have a minimum duration of eight (8) hours;
- v The troubleshooting course **shall** accommodate up to eight (8) personnel;
- vi The troubleshooting course **shall** be supplied at the delivery destination;
- vii For vehicles shipped to DND, the date for the troubleshooting course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- viii After completion of the troubleshooting course, the Contractor **shall** 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.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

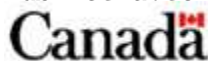
Date \_\_\_\_\_

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense







**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**  
(d) **Straddle Legs - Proof of Compliance**  
Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_  
Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**  
(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**  
(d) **Straddle Legs - Proof of Compliance**  
Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_  
Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**  
(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Straddle Legs - Proof of Compliance**  
Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_  
Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height in document \_\_\_\_\_ on page \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

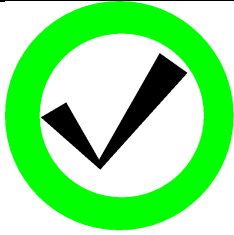


FORKLIFT, WALKIE STACKER, STRADDLE TYPE

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

- (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_
- (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_
- (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_
- (d) Reach on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Straddle Legs - Proof of Compliance**

Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height in document \_\_\_\_\_ on page \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height in document \_\_\_\_\_ on page \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**

Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

- (a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_
- (b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_
- (c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_
- (d) Reach on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(d) **Straddle Legs - Proof of Compliance**

Minimum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

Maximum Straddle Leg Separation on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height in document \_\_\_\_\_ on page \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height in document \_\_\_\_\_ on page \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**

Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_

Mast - Model \_\_\_\_\_

Lift height in document \_\_\_\_\_ on page \_\_\_\_\_

Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



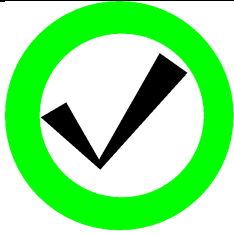
FORKLIFT, WALKIE STACKER, STRADDLE REACH

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.





**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
(a) Lift capacity and load centre on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Mast no. 2 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Mast no. 3 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Mast no. 4 - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
Mast - Model \_\_\_\_\_  
Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
Vehicle height with collapsed mast on page \_\_\_\_\_ of document \_\_\_\_\_



FORKLIFT, WALKIE STACKER, COUNTERBALANCE

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

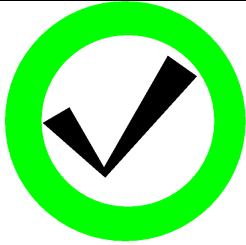
Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

## **Annex E – Group 7 - Pallet jacks**

The Annex E is composed of the following Appendix:

Appendix E1: Purchase Descriptions for Group 7A – Pallet Jack, Walkie, Electric;  
Appendix E2: Purchase Descriptions for Group 7B - Pallet Jack, End Rider, Electric;  
Appendix E3: Technical Information Questionnaires for Group 7A Configuration A, B and C;  
Appendix E4: Technical Information Questionnaires for Group 7B Configuration A, B, C and D



NOTICE

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

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. SCOPE

1.1 Scope - This Purchase Description covers the requirements for electric walkie pallet jacks with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor.
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;



- (b) **"Equivalent"** shall mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance; and
- (c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes clause references.

CHARACTERISTIC	CLAUSE	UNITS	CONFIGURATION		
			A	B	C
LIFT CAPACITY	3.4.2 (a)	kg	2,040	2,720	3,625
		lb	4,500	6,000	8,000
LIFT HEIGHT	3.4.2 (b)	mm	200	200	200
		in	8	8	8
FORK LENGTH	3.5.1 (a)	mm	1,065	1,065	1,065
		in	42	42	42
FORK LENGTH 2	3.5.2 (a)	mm	910	910	910
		in	36	36	36
FORK LENGTH 3	3.5.2 (b)	mm	1,215	1,215	1,215
		in	48	48	48
BATTERY CAPACITY	3.15 (a)	kWh	3	6	6





1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration, the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	CLAUSE	CONFIGURATION		
		A	B	C
"EE" Safety Rating	3.3.4	X	X	X
Fork Length no. 2	3.5.2 (a)	X	X	X
Fork Length no. 3	3.5.2 (b)	X	X	X
Cold Storage Preparation	3.5.2 (c)			X
Battery Removal Aids	3.5.2 (d)	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X
Training - Familiarization - French	4.2 (b)	X	X	X



2. APPLICABLE DOCUMENTS - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks

Underwriters' Laboratories of Canada

7 Underwriters Road,

Toronto, Ontario, M1R 3A9

<http://www.ulc.ca/>



3. **REQUIREMENTS**

3.1 **Standard Design**

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may be not specifically described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 **Operating Conditions**

3.2.1 **Weather** - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 **Terrain** - The vehicle **shall** operate on use-roughened concrete floors while being used stacking, un-stacking and moving general supplies in and around warehouses.

3.3 **Safety Standards**

3.3.1 **Vehicle Safety** - All vehicle design and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 **Hazardous Materials** - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 **"E" Safety Rating** - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 **"EE" Safety Rating Feature**

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.



- 3.4 **Vehicle** - The vehicle *shall* be a walkie pallet jack.
- 3.4.1 **Pallet Jack Performance**
- (a) The pallet jack *shall* have a lift capacity of at least that given as "**LIFT CAPACITY**" in the Data Table (paragraph 1.4);
  - (b) The pallet jack *shall* 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 "**LIFT HEIGHT**" in the Data Table (paragraph 1.4); and
  - (c) The pallet jack *shall* have a nominal fork outside width of 558 mm (22 inches) with forks having a nominal width of 170 mm (6.7 inches).
- 3.5 **Equipment**
- (a) **Standard Forks** - The vehicle *shall* be provided with forks having a nominal fork length of "**FORK LENGTH**" as given in the Data Table (paragraph 1.4); and
  - (b) **Standard Load Backrest** - The vehicle *shall* be provided with a load backrest with a nominal height of 1,219 mm (48 inches).
- 3.5.1 **Features and Accessories**
- (a) **Fork Length no. 2** - Forks, with a nominal length of that given as "**FORK LENGTH 2**" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5.1 (a));
  - (b) **Fork Length no. 3** - Forks, with a nominal length of that given as "**FORK LENGTH 3**" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5.1 (a));
  - (c) **Cold Storage Preparation**
    - i The vehicle *shall* be provided with preparation for operations in a refrigerated warehouse; and
    - ii The preparations *shall* include low temperature lubricants, anti-seize compounds, hydraulic fluids and heated and/or sealed switches and controls.
  - (d) **Battery Removal Aids**
    - i The vehicle *shall* be provided with devices to aid in the removal and replacement of the battery; and
    - ii The devices may include items such as battery rollers or pivoting battery mounts.
- 3.6 **Operator/Forklift Body Clearance** - *Commercially Equipped*
- 3.7 **Chassis** - *Commercially Equipped*
- 3.8 **Motors** - *Commercially Equipped*
- 3.9 **Transmission** - *Commercially Equipped*
- 3.10 **Brake System** - *Commercially Equipped*
- 3.11 **Steering** - *Commercially Equipped*
- 3.12 **Tires** - *Commercially Equipped*
- 3.13 **Controls** - *Commercially Equipped*



3.14 Instruments - The vehicle *shall* 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.

3.15 Electrical System

- (a) The vehicle batteries *shall* have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (c) The vehicle *shall* be supplied with a CSA approved, fully automatic, constant voltage, heavy-duty type a battery charger that connects to a 120-volt, single phase 60 Hz power source.

3.16 Lighting - Commercially Equipped

3.17 Hydraulic System - Commercially Equipped

3.18 Lubricants and Hydraulic Fluids - Commercially Equipped

3.19 Paint - Commercially Equipped

3.20 Identification - The manufacturer's name, model and vehicle serial number *shall* be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle *shall* be delivered to destination in a fully operational condition (serviced and adjusted) and both the interior and exterior *shall* be cleaned;
- (b) If the vehicle requires assembly at destination, the Contractor *shall* 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, *shall* be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery *shall* be suitable for the destination and the season of delivery.



4. Integrated Logistic Items

4.1 Contractor Documentation and Integrated Logistic Items

4.1.1 Documents Supplied to the Technical Authority

(a) Data Summary

- i The Contractor **shall** supply a bilingual data summary for each Configuration with vehicle data and a vehicle picture included;
- ii The **Technical Authority** will supply a template of a data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One front-view and one side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.



PALLET JACK, WALKIE, ELECTRIC

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models and all features/attachments used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - iv The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - v The Configuration document **shall** include a list of equipment/features that comprise the basic specified vehicle including any related product code required on the manufacturers basic model;
  - vi The Configuration document **shall** provide a list for each additional attachments/accessories/features that are specified for that Configuration including, where relevant, the product code and make/model; and
  - vii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested.

4.1.2 Items Supplied with Each Vehicle

- (a) Operator's Manual
  - i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
  - ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;



- iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **shall** be supplied;
- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
- ii The **Technical Authority** will supply a template of the warranty letter to the Contractor;
- iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **shall** honour the warranty letter.

- (c) Material Safety Data Sheets - A set of material safety data sheets, the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e), **shall** be supplied.

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.

4.1.4 Additional Items

(a) Initial Parts Kit

- i One initial parts kit **shall** be supplied; and
- ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.

- (b) Paper Maintenance Manual - English - Maintenance manuals in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;





- (c) Paper Maintenance Manual - French - Maintenance manuals in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (d) Digital Maintenance Manual - English
  - i Searchable digital maintenance manuals in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv On-line maintenance manuals may be supplied in lieu of the digital maintenance manuals, however, these **shall** be provided without subscription fees.
- (e) Digital Maintenance Manual - French
  - i Searchable digital maintenance manuals in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD or DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The digital format **shall** not require a password or an Internet connection to be functional; and
  - iv On-line maintenance manuals may be supplied in lieu of the digital maintenance manuals, however, these **shall** be provided without subscription fees.
- (f) Paper Parts Manual
  - i Parts manuals in paper format required for the vehicle, features and accessories **shall** be supplied;
  - ii The parts manual **shall** be in English; and
  - iii It is desirable to provide the parts manuals in French in addition to the English version.
- (g) Digital Parts Manual
  - i Searchable digital parts manuals required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
  - ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
  - iii The parts manual **shall** be in English;
  - iv It is desirable to provide the parts manuals in French in addition to the English version;
  - v The digital format **shall** not require a password or an Internet connection to be functional; and



- vi On-line parts manuals may be supplied in lieu of the digital parts manuals, however, these **shall** be provided without subscription fees.

4.2 Training

(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** include at least 1-day (8 hours) of training;
- vi The familiarization course **shall** accommodate up to 8 personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** include at least 1-day (8 hours) of training;



PURCHASE DESCRIPTION  
GROUP 7A  
PALLET JACK, WALKIE, ELECTRIC

- vi The familiarization course *shall* accommodate up to 8 personnel;
- vii The familiarization course *shall* be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course *shall* be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor *shall* have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

1. **SCOPE**

1.1 **Scope** - This Purchase Description covers the requirements for pallet jacks with a platform for the operator with features and accessories.

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 with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**shall**" or "will" are not used, the information supplied is for guidance only;
- (d) In this document "provided" **shall** mean "provided and installed";
- (e) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **shall** be supplied by the Contractor;
- (f) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **shall** be supplied, when requested by the **Technical Authority**;
- (g) While the SI system **shall** 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; 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**

- (a) "**Technical Authority**" **shall** mean the official responsible for the technical content of this requirement;
- (b) "**Equivalent**" **shall** mean a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance; and

---

OPI DSVPM 4 - DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense



(c) **"Commercially Equipped"** shall mean that the vehicle is provided in its standard commercial configuration with no additional government-specified requirements.

1.4 **Data Table** - The following table shows required performance and dimensions for each Configuration and includes paragraph references.

CHARACTERISTIC		PARAGRAPH	UNITS	CONFIGURATION			
				A	B	C	D
LIFT CAPACITY		3.4.2 (a)	kg	2,720	2,720	3,625	3,625
			lb	6,000	6,000	8,000	8,000
LIFT HEIGHT		3.4.2 (b)	mm	200	200	200	200
			in	8	8	8	8
FORK LENGTH		3.5 (a)	mm	1,065	1,065	1,065	1,065
			in	42	42	42	42
FORK LENGTH 2		3.5.1 (a)	mm	910	910	910	910
			in	36	36	36	36
FORK LENGTH 3		3.5.1 (b)	mm	1,215	1,215	1,215	1,215
			in	48	48	48	48
FORK LENGTH 4		3.5.1 (c)	mm	1,520	1,520	1,520	1,520
			in	60	60	60	60
FORK LENGTH 5		3.5.1 (d)	mm	1,825	1,825	1,825	1,825
			in	72	72	72	72
FORK LENGTH 6		3.5.1 (e)	mm	2,135	2,135	2,135	2,135
			in	84	84	84	84
POSITION OF PLATFORM	END	3.6.1 (a)	-	X		X	
	CENTRE	3.6.1 (b)	-		X		X
BATTERY CAPACITY		3.15 (a)	kWh	11	11	11	11

1.4.1 **Feature Table** - The following table indicates with an "X" and by Configuration the features, accessories, items and training, which *shall* become part of the vehicle order when required by the call-up.

DESCRIPTION	PARAGRAPH	CONFIGURATION			
		A	B	C	D
"EE" Safety Rating Feature	3.3.4	X	X	X	X
Fork Length no. 2	3.5.1 (a)	X	X	X	X
Fork Length no. 3	3.5.1 (b)	X	X	X	X
Fork Length no. 4	3.5.1 (c)	X	X	X	X
Fork Length no. 5	3.5.1 (d)	X	X	X	X
Fork Length no. 6	3.5.1 (e)	X	X	X	X
Cold Storage Preparation	3.5.1 (f)	X	X	X	X
Spray Wash-down	3.5.1 (g)	X	X	X	X
Battery Removal Aids	3.5.1 (h)	X	X	X	X
Initial Parts Kit	4.1.4 (a)	X	X	X	X
Paper Maintenance Manual - English	4.1.4 (b)	X	X	X	X
Paper Maintenance Manual - French	4.1.4 (c)	X	X	X	X
Digital Maintenance Manual - English	4.1.4 (d)	X	X	X	X
Digital Maintenance Manual - French	4.1.4 (e)	X	X	X	X
Paper Parts Manual	4.1.4 (f)	X	X	X	X
Digital Parts Manual	4.1.4 (g)	X	X	X	X
Training - Familiarization - English	4.2 (a)	X	X	X	X
Training - Familiarization - French	4.2 (a)	X	X	X	X



2. **APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

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>

UL 583

Standard for Electric-Battery-Powered Industrial Trucks

Underwriters' Laboratories of Canada

7 Underwriters Road,

Toronto, Ontario, M1R 3A9

<http://www.ulc.ca/>



3. REQUIREMENTS

3.1 Standard Design

- (a) The vehicle **shall** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least three (3) years;
- (b) The vehicle **shall** include all components, equipment and accessories normally supplied for this application, although they may not specifically be described in this Purchase Description;
- (c) The vehicle **shall** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **shall** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **shall** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

3.2 Operating Conditions

3.2.1 Weather - The vehicle **shall** operate in temperatures ranging from 0 to 40°C.

3.2.2 Terrain - The vehicle **shall** operate on use-roughened concrete floors while being used for stacking, un-stacking and moving general supplies in and around warehouses.

3.3 Safety Standards

3.3.1 Vehicle Safety - All vehicle design and safety aspects **shall** be in accordance with CSA B335 or an **Equivalent**.

3.3.2 Hazardous Materials - The Contractor **shall** 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) used in the manufacture and assembly of the product supplied.

3.3.3 "E" Safety Rating - The vehicle **shall** be manufactured to meet the requirements of an "E" safety rating in accordance with Standard UL 583, or an **Equivalent**.

3.3.4 "EE" Safety Rating Feature

- (a) The vehicle **shall** 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 3.3.3); and
- (b) A certification label confirming the vehicle meets the "EE" safety rating **shall** be permanently affixed to the vehicle before delivery.





3.4 **Vehicle** - The vehicle *shall* be a rider-on pallet jack.

3.4.1 **Pallet Jack Performance**

- (a) The vehicle *shall* have a lift capacity of at least that given as "LIFT CAPACITY" in the Data Table (paragraph 1.4);
- (b) The vehicle *shall* 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 "LIFT HEIGHT" in the Data Table (paragraph 1.4); and
- (c) The vehicle *shall* have a nominal fork outside width of 558 mm (22 inches) having forks with a nominal width of 230 mm (9 inches).

3.5 **Equipment**

- (a) **Standard Forks** - The vehicle *shall* be provided with forks having a nominal fork length of "FORK LENGTH" as given in the Data Table (paragraph 1.4); and
- (b) **Standard Load Backrest** - The vehicle *shall* be provided with a load backrest with nominal height of 1,219 mm (48 inch).

3.5.1 **Features and Accessories**

- (a) **Fork Length no. 2** - Forks, with a nominal length of that given as "FORK LENGTH 2" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5 (a));
- (b) **Fork Length no. 3** - Forks, with a nominal length of that given as "FORK LENGTH 3" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5 (a));
- (c) **Fork Length no. 4** - Forks, with a nominal length of that given as "FORK LENGTH 4" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5 (a));
- (d) **Fork Length no. 5** - Forks, with a nominal length of that given as "FORK LENGTH 5" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5 (a));
- (e) **Fork Length no. 6** - Forks, with a nominal length of that given as "FORK LENGTH 6" in the Data Table (paragraph 1.4), *shall* be provided in lieu of the standard forks (paragraph 3.5 (a));
- (f) **Cold Storage Preparation**
  - i The vehicle *shall* be provided with preparation for operations in a refrigerated warehouse; and
  - ii The preparations *shall* include low temperature lubricants, anti-seize compounds, hydraulic fluids and heated and/or sealed switches and controls.
- (g) **Spray Wash-down** - The vehicle *shall* be prepared so that it can be washed down with a high-pressure spray without damage; and
- (h) **Battery Removal Aids**
  - i The vehicle *shall* be provided with devices to aid in the removal and replacement of the battery; and
  - ii The devices may include items such as battery rollers or pivoting battery mounts.



3.6 Operator Station

- (a) The vehicle **shall** be provided with an operator platform with a non-slip standing surface; and
- (b) The platform **shall** allow the operator to steer safely.

3.6.1 Operator Station Position

- (a) End Platform - The platform **shall** be located at the end of the vehicle behind the steering arm when indicated as "END" in the Data Table (paragraph 1.4); or
- (b) Centre Platform
  - i The platform **shall** be located between the steering arm and the load backrest when indicated as "CENTRE" in the Data Table (paragraph 1.4); and
  - ii The platform **shall** be accessible from either side of the pallet jack.

3.7 Chassis - *Commercially Equipped*

3.8 Motors - *Commercially Equipped*

3.9 Transmission - *Commercially Equipped*

3.10 Brake System - *Commercially Equipped*

3.11 Steering - *Commercially Equipped*

3.12 Tires - *Commercially Equipped*

3.13 Controls - *Commercially Equipped*

3.14 Instruments - The instruments **shall** 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.

3.15 Electrical System

- (a) The vehicle batteries **shall** have a capacity of at least "BATTERY CAPACITY" as given in the Data Table (paragraph 1.4); and
- (b) The vehicle **shall** be supplied with a CSA approved, fully automatic, constant voltage, heavy-duty type battery charger that connects to a 120-volt, single phase 60 Hz power source.

3.16 Lighting - Not applicable

3.17 Hydraulic System - *Commercially Equipped*

3.18 Lubricants and Hydraulic Fluids - *Commercially Equipped*

3.19 Paint - *Commercially Equipped*

3.20 Identification - The manufacturer's name, model and vehicle serial number **shall** be permanently marked in a conspicuous and protected location.

3.21 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination in a fully operational condition (serviced and adjusted). Both the interior and exterior **shall** be cleaned;



- (b) If the vehicle requires assembly at destination, the Contractor **shall** 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, **shall** be listed on the shipping certificate or to an attached packing note; and
- (e) Lubricants installed in the vehicle at time of delivery **shall** be suitable for the destination and the season of delivery.

## 4. INTEGRATED LOGISTIC ITEMS

4.1 Contractor Documentation and Integrated Logistic Items4.1.1 Documents Supplied to the Technical Authority(a) Data Summary

- i A bilingual data summary **shall** be supplied for each Configuration with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The Contractor **shall** supply the information requested for all accessories and features for the equipment Configuration;
- iv The Contractor **shall** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval; and
- v Data summary approval or comments will be supplied within 30 calendar days of receipt.

(b) Manuals for Approval

- i A set of manuals for each Configuration, in digital format, including the operator, parts and maintenance (shop repair) manuals **shall** be supplied. Manuals may cover more than one Configuration;
- ii The set of manuals **shall** include manuals for all the specified accessories and features for the Configuration. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Manuals will not be returned; and
- iv Manual approval or comments will be supplied within 30 calendar days of receipt.

(c) Photographs and Line Drawings

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of each Configuration **shall** be supplied;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **shall** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle **shall** be supplied. Brochure line drawings are acceptable;
- iv Photographs **shall** have a plain uncluttered background; and
- v Photographs **shall** be in a JPEG (Joint Photographic Experts Group) format. Photographs **shall** have a resolution of at least eight (8) Mega pixels.



PALLET JACK, RIDER, ELECTRIC

- (d) Initial Parts Kit List - A list of the parts included in the initial parts kit specified in paragraph 4.1.4(a) for each Configuration **shall** be supplied;
- (e) Material Safety Data Sheets
  - i The Contractor **shall** supply a list, in digital format, of all hazardous materials used on the vehicle;
  - ii If there are no hazardous materials used, this **shall** be stated on the list; and
  - iii The Contractor **shall** supply material safety data sheets of all hazardous materials in the list.
- (f) Training Plan(s) - The Contractor **shall** supply a training plan for approval, for each of the training requirements listed in paragraph 4.2; and
- (g) Customer Support Package
  - i A customer support package, in digital format, **shall** be supplied;
  - ii The customer support package **shall** include brochures for all vehicle models and all features/attachments used to comply with each of the Configuration requirements;
  - iii The customer support package **shall** include a Configuration document stating the make/model(s) required to fulfil all requirements for that Configuration;
  - iv The Configuration document **shall** state the estimated delivery for each make/model required to fulfil requirements of that Configuration;
  - v The Configuration document **shall** include a list of equipment/features that compromise the basic specified vehicle including any related product code required on the manufacturer's basic model;
  - vi The Configuration document **shall** provide a list for each additional attachments/accessories/features that are specified for that Configuration including, where relevant, the product code and make/model; and
  - vii The **Technical Authority** will distribute the customer support package to those who request it, however, the Contractor **shall** distribute this document, when requested.

4.1.2 Items Supplied with Each Vehicle

- (a) Operator's Manuals
  - i An operator's manual for the safe vehicle operation including all supplied attachments **shall** be supplied;
  - ii The operator's manual **shall** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
  - iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **shall** be supplied;

- iv The CD or DVD **shall** be permanently and legibly labeled with the list of contents; and
- v The digital copy **shall** not require a password or an Internet connection to be functional.

(b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **shall** be supplied;
  - ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
  - iii The Contractor **shall** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
  - iv The warranty letter **shall** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
  - v Designated warranty providers **shall** honour the warranty letter.
- (c) Material Safety Data Sheets - A set of material safety data sheets, the same as those supplied to the **Technical Authority** as per paragraph 4.1.1 (e), **shall** be supplied.

4.1.3 Distribution of copies of Warranty Letter

- (a) DND - For vehicles shipped to DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the **Technical Authority**; or
- (b) Not DND - For vehicles shipped to users other than DND, a bilingual copy of the warranty letter, in electronic format, **shall** be supplied to the identified user or designated contact person.

4.1.4 Additional Items

- (a) Initial Parts Kit
  - i One initial parts kit **shall** be supplied; and
  - ii The initial parts kit **shall** include a complete set of parts, including filters and filter elements required by the Original Equipment Manufacturer for the first year of scheduled maintenance.
- (b) Paper Maintenance Manual - English - A maintenance manual in paper format in English required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;
- (c) Paper Maintenance Manual - French - A maintenance manual in paper format in French required for the maintenance and repair of the vehicle, features and accessories **shall** be supplied;



(d) Digital Maintenance Manual - English

- i A searchable digital maintenance manual in English required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(e) Digital Maintenance Manual - French

- i A searchable digital maintenance manual in French required for maintenance and repair of the vehicle features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The digital format **shall** not require a password or an Internet connection to be functional; and
- iv An on-line maintenance manual may be supplied in lieu of the digital maintenance manual, however, this **shall** be provided without subscription fees.

(f) Paper Parts Manual

- i A parts manual in paper format required for the vehicle, features and accessories **shall** be supplied;
- ii The parts manual **shall** be in English; and
- iii It is desirable to provide the parts manual in French in addition to the English version.

(g) Digital Parts Manual

- i A searchable digital parts manual required for vehicle, features and accessories **shall** be supplied on a CD/DVD-ROM;
- ii The digital maintenance manual **shall** be in a PDF or **Equivalent** format;
- iii The parts manual **shall** be in English;
- iv It is desirable to provide the parts manual in French in addition to the English version;
- v The digital format **shall** not require a password or an Internet connection to be functional; and
- vi An on-line parts manual may be supplied in lieu of the digital parts manual, however, this **shall** be provided without subscription fees.

4.2 Training(a) Training - Familiarization - English

- i The Contractor **shall** supply a familiarization course in English;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight(8) hours of training;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;
- viii For vehicles shipped to DND, the date for the familiarization course **shall** be arranged with the **Technical Authority**, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor **shall** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) Training - Familiarization - French

- i The Contractor **shall** supply a familiarization course in French;
- ii The course instructor **shall** be an OEM Factory Certified Training Provider;
- iii The familiarization course **shall** include operation and maintenance segments demonstrating all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **shall** supply responses to questions;
- v The familiarization course **shall** have a minimum duration of eight (8) hours of training;
- vi The familiarization course **shall** accommodate up to eight (8) personnel;
- vii The familiarization course **shall** be supplied at the delivery destination;



- viii For vehicles shipped to DND, the date for the familiarization course *shall* be arranged with the *Technical Authority*, or the identified user or designated contact person for vehicles shipped to users other than DND;
- ix After completion of the familiarization course, the Contractor *shall* have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The *Technical Authority* will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks - Proof of Compliance**  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Standard Load Backrest - Proof of Compliance**  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2 - Proof of Compliance**  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Fork Length no. 3 - Proof of Compliance**  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks - Proof of Compliance**  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Standard Load Backrest - Proof of Compliance**  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2 - Proof of Compliance**  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Fork Length no. 3 - Proof of Compliance**  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks - Proof of Compliance**  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) **Standard Load Backrest - Proof of Compliance**  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2 - Proof of Compliance**  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) **Fork Length no. 3 - Proof of Compliance**  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_



PALLET JACK, WALKIE, ELECTRIC

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.



**NOTICE**

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

**AVIS**

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

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

Where the specification paragraphs below indicate "**Proof of Compliance**", the "**Proof of Compliance**" **shall** be provided for each performance requirement/specification.

Bidders should indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the **DEFINITIONS** section at the end of this document.

**CONTRACTOR INFORMATION**

Contractor Name \_\_\_\_\_

Date \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature** *Proof of Compliance*  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance** - *Proof of Compliance*  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks** - *Proof of Compliance*  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Standard Load Backrest** - *Proof of Compliance*  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2** - *Proof of Compliance*  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Fork Length no. 3** - *Proof of Compliance*  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Fork Length no. 4** - *Proof of Compliance*  
Fork length 4 on page \_\_\_\_\_ of document \_\_\_\_\_

(d) **Fork Length no. 5** - *Proof of Compliance*  
Fork length 5 on page \_\_\_\_\_ of document \_\_\_\_\_

(e) **Fork Length no. 6** - *Proof of Compliance*  
Fork length 6 on page \_\_\_\_\_ of document \_\_\_\_\_

3.6.1 **Operator Station Position**

(a) **End Platform** - *Proof of Compliance*  
Information provided on document \_\_\_\_\_





**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks - Proof of Compliance**  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Standard Load Backrest - Proof of Compliance**  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2 - Proof of Compliance**  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Fork Length no. 3 - Proof of Compliance**  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Fork Length no. 4 - Proof of Compliance**  
Fork length 4 on page \_\_\_\_\_ of document \_\_\_\_\_

(d) **Fork Length no. 5 - Proof of Compliance**  
Fork length 5 on page \_\_\_\_\_ of document \_\_\_\_\_

(e) **Fork Length no. 6 - Proof of Compliance**  
Fork length 6 on page \_\_\_\_\_ of document \_\_\_\_\_

3.6.1 **Operator Station Position**

(b) **Centre Platform - Proof of Compliance**  
Information provided on document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature** *Proof of Compliance*  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance** - *Proof of Compliance*  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks** - *Proof of Compliance*  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) **Standard Load Backrest** - *Proof of Compliance*  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2** - *Proof of Compliance*  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) **Fork Length no. 3** - *Proof of Compliance*  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) **Fork Length no. 4** - *Proof of Compliance*  
Fork length 4 on page \_\_\_\_\_ of document \_\_\_\_\_  
(d) **Fork Length no. 5** - *Proof of Compliance*  
Fork length 5 on page \_\_\_\_\_ of document \_\_\_\_\_  
(e) **Fork Length no. 6** - *Proof of Compliance*  
Fork length 6 on page \_\_\_\_\_ of document \_\_\_\_\_

3.6.1 **Operator Station Position**

(a) **End Platform** - *Proof of Compliance*  
Information provided on document \_\_\_\_\_



**Substitutes/Alternatives**

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

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

---

**NOTE: Proof of Compliance shall** be provided for all items offered as a substitute or alternative.

**SPECIFICATION PARAGRAPHS**

3.3.4 **"EE" Safety Rating Feature - Proof of Compliance**  
Certification - document \_\_\_\_\_

3.4.1 **Forklift Performance - Proof of Compliance**  
Vehicle - Make \_\_\_\_\_ - Model \_\_\_\_\_  
(a) Lift capacity on page \_\_\_\_\_ of document \_\_\_\_\_  
(b) Lift height on page \_\_\_\_\_ of document \_\_\_\_\_  
(c) Fork outside width on page \_\_\_\_\_ of document \_\_\_\_\_

3.5 **Equipment**

(a) **Standard Forks - Proof of Compliance**  
Fork length on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Standard Load Backrest - Proof of Compliance**  
Details on page \_\_\_\_\_ of document \_\_\_\_\_

3.5.1 **Features and Accessories**

(a) **Fork Length no. 2 - Proof of Compliance**  
Fork length 2 on page \_\_\_\_\_ of document \_\_\_\_\_

(b) **Fork Length no. 3 - Proof of Compliance**  
Fork length 3 on page \_\_\_\_\_ of document \_\_\_\_\_

(c) **Fork Length no. 4 - Proof of Compliance**  
Fork length 4 on page \_\_\_\_\_ of document \_\_\_\_\_

(d) **Fork Length no. 5 - Proof of Compliance**  
Fork length 5 on page \_\_\_\_\_ of document \_\_\_\_\_

(e) **Fork Length no. 6 - Proof of Compliance**  
Fork length 6 on page \_\_\_\_\_ of document \_\_\_\_\_

3.6.1 **Operator Station Position**

(b) **Centre Platform - Proof of Compliance**  
Information provided on document \_\_\_\_\_



PALLET JACK, RIDER, ELECTRIC

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- (a) "**Equivalent**" *shall* 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; and
  
- (b) "**Proof of Compliance**" *shall* mean an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document *shall* provide detailed information on each performance requirement and/or specification. Where a document submitted as **Proof of Compliance** does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications *shall* be provided. The certificate *shall* detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

## **Annex F – Pricing**

The Annex F is a separate document in Excel format.

The document's name is E60HS-15FRKL\_RFSO\_Ann\_F.xls

## Annex G - Price Adjustment for Extended Periods

### Initial Period

Year 1: The first year of the Standing Offer is the period from date of the Standing Offer to **to be inserted by PSPC** inclusive.

### Extended Period

Year 1: The first extended period of the Standing Offer is the period from **to be inserted by PSPC** to **to be inserted by PSPC** inclusive.

Year 2: The second extended period of the Standing Offer is the period from **to be inserted by PSPC** to **to be inserted by PSPC** inclusive.

The Price Adjustment will be applied to all items of all groups.

The offeror must provide the percentage of increase for the Extended Years as follow:

Period	Percentage (%) of increase
Initial Period	Not Applicable
Extended Period 1	
Extended Period 2	

Example of the calculation

Price of the item for the Initial Period is \$100,000 (this information would be provided from the Pricing)

The Percentage of increase for the Extended Year 1 is 2%

The Percentage of increase for the Extended Year 2 is 2.5%

Period	Percentage (%) of increase
Initial Period	Not Applicable
Extended Period 1	2%
Extended Period 2	2.5%

The actual prices for the three Period for the item would be as follow:

Period	Actual price
Initial Period	\$100,000
Extended Period 1	$\$100,000 \times 1.020 = \$102,000$
Extended Period 2	$\$102,000 \times 1.025 = \$104,550$

---

## Annex H - List of Factory Certified Warranty Providers (FCWP)

### Section I

**Group:** \_\_\_\_\_.

City Center: St-John's (NL)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Halifax (NS)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Moncton (NB)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Quebec (QC)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Montreal (QC)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

City Center: Ottawa (ON)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Kingston (ON)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Toronto (ON)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: London (ON)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Winnipeg (MB)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Regina (SK)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_



Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

City Center: Saskatoon (SK)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Calgary (AB)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Edmonton (AB)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Kelowna (BC)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Vancouver (BC)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: Victoria (BC)  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

---

**Section II - Additional Warranty Providers:**

City Center: \_\_\_\_\_ ( )  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: \_\_\_\_\_ ( )  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: \_\_\_\_\_ ( )  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: \_\_\_\_\_ ( )  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: \_\_\_\_\_ ( )  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

City Center: \_\_\_\_\_ ( )  
Distance from City Center: \_\_\_\_\_ km  
FCWP Business Name: \_\_\_\_\_  
FCWP Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

## Annex I – Delivery

### Section I – Best Delivery

While delivery of the equipment/vehicle is requested within one hundred and twenty (120) calendar days after receipt of a call-up against the Standing Offer (SO), the best delivery offered is as follow:

#### Group 1 - Internal combustion sit down forklifts

Group	Configuration	Best delivery after receipt of a call-up against the SO
1A	A	
	B	
	C	
	D	
	E	
1B	A	
	B	
	C	
	D	
	E	

#### Group 2 - Electric sit down forklifts

Group	Configuration	Best delivery after receipt of a call-up against the SO
2A	A	
	B	
	C	
2B	A	
	B	
	C	
	D	

#### Group 3 - Stand up rider forklifts

Group	Configuration	Best delivery after receipt of a call-up against the SO
3A	A	
	B	
	C	
3B	A	
	B	
	C	

#### Group 4 - Walkie stackers

Group	Configuration	Best delivery after receipt of a call-up against the SO
4A	A	
	B	
	C	
4B	A	
	B	
4C	A	
	B	
	C	

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

Group 7 - Pallet jacks

Group	Configuration	Best delivery after receipt of a call-up against the SO
7A	A	
	B	
	C	
7B	A	
	B	
	C	
	D	

**Section II – List of Canadian Facilities or Canadian Distribution Point**

Province: Newfoundland Land  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: Nova Scotia  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: New Brunswick  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: Québec  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: Ontario  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: Manitoba

Solicitation No. - N° de l'invitation  
E60HS-15FRKL /A  
Client Ref. No. - N° de réf. du client  
E60HS-15FRKL

Amd. No. - N° de la modif.  
File No. - N° du dossier  
HS634. E60HS-15FRKL

Buyer ID - Id de l'acheteur  
HS634  
CCC No./N° CCC - FMS No./N° VME

---

Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: Saskatchewan  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: Alberta  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: British Colombia  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

**Section III - Additional Canadian Facilities or Canadian Distribution Point:**

Province: \_\_\_\_\_  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

Province: \_\_\_\_\_  
Business Name: \_\_\_\_\_  
Business Address: \_\_\_\_\_  
Contact Name: (if available) \_\_\_\_\_  
Telephone #: \_\_\_\_\_  
Fax # (optional): \_\_\_\_\_  
E-mail (optional): \_\_\_\_\_

---

## ANNEX J - FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Offeror, by submitting the present information to the Standing Offer 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 an offer non-responsive, or may set-aside a Standing Offer, or will declare a contractor in default, if a certification is found to be untrue, whether during the offer evaluation period, during the Standing Offer period, or during the contract period. Canada will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply with any request or requirement imposed by Canada may render the Offer non-responsive, may result in the Standing Offer set-aside or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – Labour's](#) website.

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

Complete both A and B.

A. Check only one of the following:

- A1. The Offeror certifies having no work force in Canada.
  - A2. The Offeror certifies being a public sector employer.
  - A3. The Offeror certifies being a federally regulated employer being subject to the Employment Equity Act.
  - A4. The Offeror 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 Offeror has a combined workforce in Canada of 100 or more employees; and
    - A5.1 The Offeror certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour.
- OR**
- A5.2. The Offeror certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to issuance of a standing offer, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Offeror is not a Joint Venture.

**OR**

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