

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Réception des soumissions - TPSGC / Bid  
Receiving - PWGSC  
601-1550, Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

**REQUEST FOR PROPOSAL**  
**DEMANDE DE PROPOSITION**

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

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

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

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

**Comments - Commentaires**

<b>Title - Sujet</b> Lift	
<b>Solicitation No. - N° de l'invitation</b> W0106-12R305/A	<b>Date</b> 2013-01-09
<b>Client Reference No. - N° de référence du client</b> W0106-12-R305	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCN-027-15138	
<b>File No. - N° de dossier</b> QCN-2-35497 (027)	<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 2013-02-22</b>	
<b>Time Zone</b> Fuseau horaire Heure Normale du l'Est HNE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Roy, Josée	<b>Buyer Id - Id de l'acheteur</b> qcn027
<b>Telephone No. - N° de téléphone</b> (418) 649-2932 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> 35e GROUPE BRIGADE DU CANADA COMPLEXE MILITAIRE ST-MALO 1020, VINCENT-MASSEY QUEBEC Québec G1N 1M8 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

TPSGC/PWGSC  
601-1550, Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</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>

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## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Requirement**

The requirement is detailed under Annex A "Requirement".

The requirement is subject to the North American Free Trade Agreement (NAFTA), the Agreement on Internal Trade (AIT), Canada - Peru Free Trade Agreement, Canada - Colombia Free Trade Agreement and Canada - Chile Free Trade Agreement.

### **3. Debriefings**

After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within **15 working days** of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

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## PART 2 - BIDDER INSTRUCTIONS

### 1. Standard Instructions, Clauses and Conditions

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

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

The 2003 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### 1.1 SACC Manual Clauses

B1000T (2007-11-30), Condition of Material

### 2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

### 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **five (5) calendar days** before the bid closing date. Enquiries received after that time may not be answered.

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

### 4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

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## PART 3 - BID PREPARATION INSTRUCTIONS

### 1. Bid Preparation Instructions

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

Section II: Financial Bid ( 1 hard copy)

Section III: Certifications (1 hard copy)

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

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### Section I: Technical Bid

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

#### The Bidder must provide the following with its Technical Bid:

- (i) **Mandatory Criteria:** The Bidder must fill in and provide the technical compliance table (section 1.1.1 of Part 4).
- (ii) **Documentation:** The Bidder must provide evidence (product specifications, publication, documented data or discussion points) showing compliance to the mandatory criteria.

#### Section II: Financial Bid

Solicitation No. - N° de l'invitation

W0106-12R305/A

Amd. No. - N° de la modif.

File No. - N° du dossier

QCN-2-35497

Buyer ID - Id de l'acheteur

qcn027

Client Ref. No. - N° de réf. du client

W0106-12-R305

CCC No./N° CCC - FMS No/ N° VME

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Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

## 1.1 SACC Manual Clauses

C3011T(2010-01-11), Exchange Rate Fluctuation

### Section III: Certifications

Bidders must submit the certifications required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

### 1.1 Technical Evaluation

#### 1.1.1 Mandatory Technical Criteria

The Bidder must indicate, for each mandatory technical criterion, whether the proposed products comply or not, by checking the relevant box. The Bidder must clearly demonstrate how the proposed products comply to each criterion. Simply stating that the criteria is met, is not sufficient. Where it is necessary to refer to other documentation that is included in the Bid, Bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. The bidder must provide an answer for each criterion. The bidder must provide enough details to permit a complete evaluation.

Although bidders must propose products meeting all the specifications and components outlined in Annex A at the bid closing date, bids will be evaluated on the following criteria:

Item	Mandatory Technical Criteria	Met	Not met	Reference to additional substantiating materials included in bid
1	Each column must have a minimum lift capacity of 17,000 pounds.			
2	A set of 4 columns must have a minimum lift capacity of 65,000 pounds.			
3	Must operate on a hydraulic cylinder system (no worm drives).			
4	Each cylinder must be equipped with anti-return protection in the event that a hose bursts.			
5	Wireless system. Each column must be equipped with 2 deep-cycle 12-V DC batteries.			
6	The lifting height of each fork must be a minimum of 67 inches.			
7	The lift time of a vehicle must not exceed 100 seconds.			
8	Each column must be equipped with a			

	3-position pallet-jack mechanism for movement.			
<b>9</b>	The pallet-jack system must be connected to the control system electrically.			
<b>10</b>	Total weight of each column must not exceed 1,250 pounds (to make movement easier).			
<b>11</b>	Each column must be equipped with a lighting device to illuminate the underside of vehicles being worked on.			
<b>12</b>	There must be no other external grease or oil tank that requires filling.			

## 1.2 Financial Evaluation

- a. Prices will be evaluated in Canadian Funds including any applicable Taxes and Canadian Customs Duty (if applicable) and excluding the Goods and Services Tax (GST) or Harmonized Sales Tax (HST). For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the rate quoted by the Bank of Canada as being in effect on date of bid closing.
- b. Prices will be evaluated on a DDP (Québec, Québec) basis.

## 2. Basis of Selection

### 2.1 Basis of Selection - Mandatory Technical Criteria

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

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## PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### 1. Certifications Precedent to Contract Award

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

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

- 1.1.1 By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form- PWGSC-TPSGC 229)

(<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

## 2. Additional Certifications Precedent to Contract Award

### 2.1 Federal Contractors Program - Certification

#### 2.1.1 Federal Contractors Program - over \$25,000 and below \$200,000

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- a.  is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- b.  is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- c.  is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- d.  has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: \_\_\_\_\_ .

Further information on the FCP is available on the HRSDC Web site.

### 2.2 Certification ALI (Automotive Lift Institute)

The bidder certifies that the lifting equipment is be approved and certified under the ALI Certification Program (Automotive Lift Institute) and meet standard ALCTV-2006.

YES       NO

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## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

### 3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions*

(<http://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>)

Manual issued by Public Works and Government Services Canada.

#### 3.1 General Conditions

2010A (2012-11-19), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### 3.2 Supplemental General Conditions

4001 (2010-08-16), Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

### 4. Term of Contract

#### 4.1 Delivery Date

All the deliverables must be received **on or before 3 weeks after Contract award.**

### 5. Authorities

#### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Josée Roy  
Title: Supply Officer  
Public Works and Government Services Canada  
Acquisitions Branch  
Address: 601-1550, D'Estimauville Avenue  
Québec (QC)  
G1J 0C7  
Telephone: 418 649-2932

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Buyer ID - Id de l'acheteur

qcn027

Client Ref. No. - N° de réf. du client

W0106-12-R305

File No. - N° du dossier

QCN-2-35497

CCC No./N° CCC - FMS No/ N° VME

Facsimile: 418-648-2209

E-mail address: Josee.Roy@tpsgc-pwpsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

## 5.2 Technical Authority *(to be completed at Contract award)*

The Technical Authority for the Contract is :

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

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

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

Facsimile : \_\_\_\_\_

Email : \_\_\_\_\_

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

## 5.3 Contractor's Representative *(to be completed by the Contractor)*

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

Title : \_\_\_\_\_

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

Facsimile : \_\_\_\_\_

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

## 6. Payment

### 6. Basis of Payment

#### 6.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price specified in Annex B. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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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.

## 6.2 Single payment

SACC Manual Clause H1000C (2008-05-12), Single Payment

## 6.3 SACC Manual Clauses

C2000C (2007-11-30), Taxes - Foreign-based Contractor

## 6.4 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

- (a) Free on Board (Destination) common carrier Québec, Québec for shipments from the United States government; or
- (b) Delivered Duty Paid (DDP) (Québec, Québec) Incoterms 2000 for shipments from a commercial contractor.

## 7. 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.
- 2. Invoices must be distributed as follows:
  - (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 8. Certifications

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

## 9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force \_\_\_\_\_ (**to be completed at Contract award**).

## 10. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) supplemental General Conditions 4001 (2010-08-16);
- (c) the general conditions 2010A (2012-11-19);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_ (**to be completed at Contract award**).

## 11. SACC Manual Clauses

B7500C (2006-06-16), Excess Goods

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## ANNEX A

### REQUIREMENT

#### WIRELESS ELECTRIC HYDRAULIC MOBILE COLUMN LIFTING EQUIPMENT

#### 1. BACKGROUND

35 Canadian Brigade Group (35 CBG) wishes to acquire a wireless electric hydraulic mobile column lifting system to lift buses, trucks and other vehicles for inspection, maintenance and cleaning.

#### 2. DESCRIPTION

2.1 The lift system must include 8 interchangeable columns. The number of columns that make up the set must be able to be configured by the operator during installation without having to modify the operating software. Each individual column must be capable of being operated independently, in pairs (up to 4 pairs), or all eight columns together, at the same time, with having to activate any switches.

2.2 All columns must be capable of being operated synchronously (as a set) from the control panel on any of the columns in the set. Individual or paired operation must be obtained by activating a selection button on that column or within a designated pair of columns.

2.3 Each column must contain its own power supply consisting of two deep-cycle 12-VDC batteries combined to provide 24-VDC.

A battery-charging system must be incorporated into the power supply. The charger indicator light must illuminate during charging, even if the contact MAIN power switch is in the OFF POSITION. Once the batteries are recharged, another light must activate on the charger to inform the operator that the batteries have been fully charged. The main power must be equipped with overload protection between the primary power switch and the motor/control circuits.

When fully charged, the on-board battery power system must be capable of providing a minimum of 15 lifting/lowering cycles at full capacity.

2.4 The lifting columns must not weigh more than 1,250 pounds to facilitate their relocation.

2.5 The lifting equipment must be approved and certified under the ALI Certification Program (Automotive Lift Institute) and meet standard ALCTV-2006.

2.6 Each column must be structurally designed as to have the motor and hydraulic pump assembly positioned in the centre of the column to promote greater stability during column relocation. Columns with motors installed on top of them are not acceptable in order to avoid the column overturning during relocation. The noise made by the column when operated under full load must not exceed 75 decibels.

### 3. LIFTING CAPACITY

Each column must have a minimum rated capacity of 17,000 pounds. Columns must be hydraulically protected against overload.

### 4. COLUMN LIFTING HEIGHT ACHIEVED AND OVERALL HEIGHT OF COLUMN

The lifting height of each fork must be a minimum of 67 inches. The measurement must be taken from the floor to the fork.

### 5. LIFTING/LOWERING TIME

Total lifting time must not exceed 100 seconds. Total lowering time must not exceed 70 seconds.

### 6. WHEEL SIZE

Wheel contact forks must be adjustable by hand and freely accept tires with rim diameters between R17 and R22.5 without requiring modification or reduction sleeves.

### 7. PALLET JACK MECHANISM

7.1 A pallet jack mechanism must be used to relocate the lifting column. It must be equipped with two oil impregnated nylon wheels to ensure maximum stability during relocation and protect the floor finish against marring.

7.2 The pallet jack mechanism must have a three-position handle: up, neutral and down. The handle must be loop shaped. A T-shaped handle must not be accepted as it makes proper handling of the mobile column difficult and could thus result in injury. It must be possible to move the column with the handle in a vertical position. Column models in the locked position when the pallet handle is vertical must not be unaccepted.

7.3 The pallet jack system must be interlocked electronically to the control system so that if the column is inadvertently relocated, the control system must not allow the columns to be operated.

### 8. WHEELS

The column must be fitted with fixed front roller wheels fabricated from oil-impregnated nylon so as to not damage the floor on which the column rests. The wheels must be capable of being deployed by the action of the mechanism to raise the column vertically. Columns equipped with fixed steel wheels must not be accepted. Columns using spring technology to deploy the retractable wheels must not be accepted due to the possibility of spring fatigue caused by the retractable wheel does not allow insertion to the column when the vehicle's tires are under inflated.

### 9. CONTROLS

9.1 The various functions of the system must be activated from the control panel on the column.

- 
- 9.2 Each column control panel must have an emergency stop switch that stops all movement. The emergency stop switch must be palm operated and must require counter-clockwise motion in order to be released.
- 9.3 Each column must be equipped with the following:
- a. Control panel with LCD screen ;
  - b. An "up" button ;
  - c. A "down" button ;
  - d. An emergency stop switch (palm operated) which must require counter-clockwise motion to release it ;
  - e. Electronic circuit ;
  - f. Motor relays for all input voltage ;
  - g. Reserve fuse for control system ;
  - h. Selection button ;
  - i. A slow lowering (turtle) button ; and
  - j. Main power disconnect.
- 9.4 Each column must include a control panel with an automatic height reference setting that includes:
- a. keeping the height setting for the set in memory.
- 9.5 Control voltage in each control box must not exceed 24-V DC.
- 9.6 The control system must be fully wireless requiring no interconnecting cables between the columns. The wireless communication system must be properly shielded from external interference near the workshop.
- 9.7 Control panels must utilize an electronic circuit board with microprocessor to operate the lift.
- 9.8 Single operation of any column in the set must be possible from that column at any time and at any height.
- 9.9 Paired operation must be possible with a set consisting of an even number of pairs. Paired operation must be engaged by activation of the selection button on a column until the paired indicator is illuminated on that particular column. At this time, the operator must have the option to initiate the linking of a column with another column by selecting the paired feature through the selection button on that column. Once the pairing is complete, it must remain possible to lift that pair of columns at any time and at any height until the main power is disconnected.
- 9.10 Paired or single operation must be able to be authorized any height position of the lifting column(s).
- 9.11 It must be possible to switch back and forth and operate individual, paired or synchronously (set) in any order regardless of physical location or height setting.
- 9.12 The column must include an LCD screen on the outside of the column to make it easier to operate.

The LCD screen must indicate to the operator:

- 
- a. Actual number of columns in set (set size). This numeric indicator must immediately inform the operator of number columns currently included in the set.
  - b. Actual number of that particular column in the set of columns. Since the columns are controlled by the system at start up, this column indicator must indicate to the operator the number of a particular column is in a set of columns.
  - c. Actual lifting height: This numeric indicator must give the operator an immediate reference to determine the achieved height of a particular column.
  - d. Action in process (lifting/lowering). This indicator must inform the operator of what action is taking place.
  - e. Battery state: This indicator must provide the operator a quick reference that shows the state of charge of the batteries.
  - f. Hours in service of a given column. This indicator must inform the operator of the time that a particular column has been in service to ensure proper maintenance is completed in a timely manner. The LCD screen must allow the operator to view instructions by pressing the buttons.
  - g. Activation of multilingual operation. The columns must have the ability to communicate with the operator in English and French. The operator must be able to change the language at any time without modifying the control system. The language setting must remain until it is changed by the operator.
  - h. Activation of height-restricted operation. The operator must be able to restrict the height attained by any or all columns in a set. The height restriction setting must remain in memory until it is cleared by the operator. Columns that cannot maintain the height attained once power is turned off must not be accepted.
  - i. Activation of crush limitation mechanism (when the lifting system descends below 12 inches) so that the columns must not lower when a remote controller is installed to prevent damage caused by the lift.

## **10. DRIVE SYSTEM**

- 10.1 The drive system must be hydraulic and must permit lifting without pulsation, jerking or instability. The hydraulic system must include a 24-V DC electric-powered pump, flow control valves and a fluid reservoir.
- 10.2 Hydraulic lifting cylinder must be of piston type to prevent leakage in case of piston damage. Piston rod must be directed towards the floor.
- 10.3 Each hydraulic cylinder must be equipped with anti-return protection in the event that a hose bursts in order to avoid accidental descent of the load.

## **11. SAFETY DEVICES**

- 11.1 An independent mechanical locking safety device must be installed on each column. This safety device (lock) must be fully independent of the lift drive. No other locking device that is independent of the lift system must be permitted.

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- i. The ratchet and pawl system must be used to lock the column properly and automatically at any height, at any time. Ratchets must be integrated into the fork lift. The pawl must be mounted within the column and act as a wedge between the column and the lifting fork. The mechanical safety is automatically engaged at all times when lifting equipment is not in operation.
  - ii. A solenoid valve must open to free the pawl when the lift is in descent mode.
  - iii. The spacing between the ratchet on the locking device must be no more than 1½ inches. The first locking position must engage at a maximum of 6 inches of vertical movement.
- 11.2 The up and down buttons must be of the type that requires constant pressure to be exerted in order to operate. This is required for operation to eliminate any chance of error when operating the buttons. When pressure is no longer exerted on the button, there must be no further movement of the lifting system.

## 12. LIGHTING DEVICE

Each column must be equipped with a lighting device to illuminate the underside of the vehicle being repaired.

## 13. MAINTENANCE

- 13.1 The column must be designed so minimum maintenance is required. The only checks required are monthly and annual visual inspections to ensure that the hydraulic fluid levels are correct and that the emergency clearance mechanisms and the mechanical safety devices operate properly.
- 13.2 The lift system's oil must be replaced every 2 years.
- 13.3 There must be no other external grease or oil tank that requires filling.

## 14. DELIVERY

St-Malo Military Complex (CMSM)  
1020 Vincent Massey  
Quebec, QC  
G1N 1M8

Solicitation No. - N° de l'invitation

W0106-12R305/A

Client Ref. No. - N° de réf. du client

W0106-12-R305

Amd. No. - N° de la modif.

File No. - N° du dossier

QCN-2-35497

Buyer ID - Id de l'acheteur

qcn027

CCC No./N° CCC - FMS No/ N° VME

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**ANNEX B**

**BASIS OF PAYMENT**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>TOTAL Firm Price (excluding sales tax)</b>
1	<b>Wireless electric hydraulic mobile column lifting system</b> , as detailed at Annex A.  Delivered Duty Paid (DDP) Incoterms 2000, including Custom Duties and Candian Excise taxes and including shipping and delivery.	1	\$ _____