



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095**

**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

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services Canada
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Title - Sujet Rotary Mobile Lift	
Solicitation No. - N° de l'invitation W0113-16CS08/A	Date 2016-07-21
Client Reference No. - N° de référence du client W0113-16CS08	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-008-7135	
File No. - N° de dossier TOR-6-39031 (008)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-09-01	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Brooks, Julie A.	Buyer Id - Id de l'acheteur tor008
Telephone No. - N° de téléphone (905) 615-2463 ()	FAX No. - N° de FAX (905) 615-2060
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE Canadian Forces Support Training Group MLS B Maintenance 45 Maintenance Road-Bldg O-95 Borden Ontario L0M1C0 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée 2016-10-31	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Rotary Mobile Lift	W0113	W0113	1	Each	\$	XXXXXXXXXXXX	2016-10-31	

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.2 Debriefings

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 from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 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 Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 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.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 7 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 question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

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

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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

- Section I: Technical Bid (2 hard copies)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (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) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders 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 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.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 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.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

See Annex C.

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price.

Pricing must be provided in accordance to Annex B, Basis of Payment for the sections A and B.

The evaluated price will be the sum of the extended prices for all items (Firm and Optional).

4.2 Basis of Selection

4.2.1 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.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder 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 bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

There is no security requirement applicable to the Contract.

6.2 Requirement

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

6.3 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 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.

6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to January 31st, 2018 inclusive

6.4.2 Delivery Date

All the firm deliverables must be received on or before October 31st, 2016.

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point specified at Annex A of the Contract.

6.4.4 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

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The Contracting Authority for the Contract is:

Name: Julie Adler Brooks
Title: Supply Officer Trainee
Public Works and Government Services Canada
Acquisitions Branch
Directorate: Ontario Region
Address: 480C-33 City Center Drive, Mississauga ON L5B 2N5

Telephone: 905-615-2463
Facsimile: 905-615-2060
E-mail address: Julie.adlerbrooks@pwgsc-tpsgc.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.

6.5.2 Project Authority

The Project Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: _____
Facsimile: _____
E-mail address: _____

The Project Authority 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 Project Authority, however the Project 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.

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices as specified in Annex B for a cost of \$ _____ (to be inserted at contract award). Customs duties are included and Applicable Taxes are extra.

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.

6.6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16), Limitation of Price.

6.6.3 Single Payment

SACC Manual clause [H1000C](#) (2008-05-12), Single Payment.

6.7 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.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

6.10 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) the supplemental general conditions [4001](#) (2015-04-01), Hardware Purchase, Lease and Maintenance;
- (c) the general conditions [2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated _____ (*will be inserted at contract award*).

6.11 Insurance

SACC Manual clause [G1005C](#) (2016-01-28), Insurance - No Specific Requirement.

ANNEX A

REQUIREMENT

1. OBJECTIVE

The Department of National Defence has the requirement to purchase six (6) battery operated mobile column lifts, six (6) support stands and an (1) air operated tire wheel lift with an option to purchase up to an additional six (6) column lifts, six (6) support stands, and an (1) air operated tire wheel lift.

2. BACKGROUND

Base Maintenance at CFB Borden, is an organization within the Department of National Defence. Base Maintenance consisting of various department that are mandated to inspect and repair a large diverse fleet. Currently one of our repair facilities has the ability to lift heavy equipment and trucks higher than approximately 24 inches (60 cm). With this new capacity to lift equipment to an appropriate working height we also require the ability to remove the tires from these vehicle.

3. TECHNICAL SPECIFICATIONS

A. Column Lifts

1. The columns must be compatible with current fleet of Rotary MCH418W mobile columns.
2. The columns must lift trucks and heavy vehicles (buses, trucks, multi wheeled and off road vehicles etc.) weighing up to 108,000 lbs.
3. Equipment must have CSA certification, ANSI/ALI ALCTV 2011 standard.
4. All components must be water resistant.
5. The system must operate as a set of six columns with the option to work in pairs or individually.
6. The lift operation's control system must ensure synchronized movement between all columns within 1 ½" of each other in either the raise or lower mode.
7. Each column must contain a single acting hydraulic cylinder and evenly distribute the lifting force to each of the columns.
8. All mobile control panels must be waterproof, NEMA Type 4 standard.
9. The control console must allow the lift to be fully controlled from any column.
10. Columns must be easily moved by one person including a jacking mechanism to allow for travel across rough surfaces. The jacking mechanism must automatically retract when raising a vehicle.
11. Control system must synchronize all columns during operation.
12. Lifting pistons must be completely enclosed.
13. Hydraulic gear pumps must supply the appropriate pressure and flow to operate the lift.

14. The lifting height must be a minimum of 70", measured from the floor to the bottom of the cradle when the lift is at full height.
15. Lifting forks must be adjustable from 10 to 22" and accommodate up to a 50" tire diameter size without the use of adapters.
16. The carriage must accommodate chassis beam adapters as well as adapters for cars and forklifts.
17. Wheels on the columns must be steel and rubber coated and automatically retracts under load.
18. Lifts must be battery operated with 110 volt chargers.
19. The power cable for the charger must have recoil.
20. The communication between column must be wireless with optional manual cabling when required.
21. There must be one master control panel that houses a dead-man switch, programmable logic control and switch to control all six columns (a pair or individually). The other five columns must have secondary control panels.
22. The master control must be controlled from any column.
23. Each column must include a fault sensor indicator light and an emergency stop button.
24. The manual wiring for communication must be horseshoe wired, so that vehicles can be driven off without removing cables.
25. Each column must be lowered manually without the use of special tools in the event of a power failure.
26. The safety systems must ensure the lift maintains the vehicle position in the event of a mechanical, electrical or hydraulic system failure.
27. The lift must have mechanical safety locks on all posts at multiple positions throughout the full length of travel. The locks must mechanically engage by gravity and be disengaged by means of an electric solenoid with a manual override to allow for lowering in the case of an electrical failure.
28. The lift control safety system must monitor the position of all carriages simultaneously.
29. Must have on-board diagnostics, with easy LED display

B. Air Operated Tire Lift

1. Must have a minimum lifting capacity of 500LBS.
2. Must have a minimum stroke lift of 40 inches.
3. Must accept tires between 30 to 45 inches.
4. Must operate with the air supply system we currently have in our shops, approximately 120 psi.

5. Must have a built in air regulator to adjust air pressure to meet machines operating pressure.

C. Support Stands

1. Must have a minimum capacity of 18,000 LBS.
2. Must meet ASME PALD 2009 Standard.
3. Must supply six (6) stands that have adjustment between approximately 56 to 82 inches (142 to 208 cm).

4. DELIVERABLES

a. Delivery and Installation

1. The equipment must be delivered on or before October 31st, 2016 and it must take place between 07:30 AM (EDT) to 3:30 AM (EDT) from Monday to Friday.
2. The equipment must be delivered to CFB Borden Base Maintenance building O-95, 45 Maintenance Road, Borden ON L0M 1C0.
3. Installation must include the setup of the lift so that they are ready for use.
4. The Contractor must provide the information regarding the after-sales services at the time of the delivery of the equipment. The information must include the detailed warranty information in hard copy or electronic format.

b. Training and Manual

1. Training must be provided on-site after the delivery of the goods for participants for a duration acceptable by the TA and the Contractor with a date suitable for both.
2. The Contractor must provide a Maintenance and Operator Manual to the Technical Authority with the delivery. The manual must provide information necessary for the safe and proper installation, operation, inspection and maintenance of the lifts. The manual will be acceptable in hard copy or electronically to the Contracting Authority.
3. Owner Manuals which cover supply operation and maintenance must be delivered with the equipment.

c. Manufacturer's Standard Warranty Period

1. The Contractor must provide details of the Contractor's or manufacturer's standard warranty. Any additional manufacturer's standards warranty such as those derived from the Original Equipment Manufacturer (OEM) for component/sub-assemblies will form part of the contract.
2. Column Lifts and Air Operated Tire Lift must have 2 year full coverage warranty, and a five year structural warranty. Support stands must have a five year structural warranty.
3. MCH Optional Extended Parts 5 Year Warranty must also be included.

5. Quantity

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1. Firm

Item #	Description	Quantity
1	Column Lifts	6
2	Air Operated Tire Lift	1
3	Support Stands	6

2. Optional

Item #	Description	Quantity
1	Column Lifts	6
2	Air Operated Tire Lift	1
3	Support Stands	6

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ANNEX B

BASIS OF PAYMENT

The firm unit price for the supply, delivery and installation of Rotary Mobile Column Lifts, Air Operated Tire Lift, Support Stands, in Canadian Funds, including Canadian Customs duties, applicable taxes extra, FOB destination.

A. Firm Items

Item	Description	Quantity	Firm Unit Price	Extended Price (Firm Unit Price x Quantity)
1	For the supply, delivery and installation of Rotary Mobile Column Lifts, in accordance with Annex A, on or before October 31 st , 2016.	6 Units	\$ _____	\$ _____
2	For the supply, delivery and installation of Support Stands, in accordance with Annex A, on or before October 31 st , 2016.	6 Units	\$ _____	\$ _____
3	For the supply, delivery and installation of Air Operated Tire Lift, in accordance with Annex A, on or before October 31 st , 2016.	1 Unit	\$ _____	\$ _____
Extended Price Item 1 + Extended Price Item 2 + Extended Price Item 3 = TOTAL FIRM				\$ _____

B. Optional Items

Item	Description	Quantity	Firm Unit Price	Extended Price (Firm Unit Price x Quantity)
1	For the supply, delivery and installation of Rotary Mobile Column Lifts, in accordance with Annex A.	6 Units	\$ _____	\$ _____
2	For the supply, delivery and installation of Support Stands, in accordance with Annex A.	6 Units	\$ _____	\$ _____
3	For the supply, delivery and installation of Air Operated Tire Lift, in accordance with Annex A.	1 Unit	\$ _____	\$ _____
Extended Price Item 1 + Extended Price Item 2 + Extended Price Item 3 = TOTAL OPTIONAL				\$ _____

Total Price (Total Firm + Total Optional): \$ _____ CAD

ANNEX C

MANDATORY TECHNICAL CRITERIA

For Evaluation Purposes

In their proposals, bidders must demonstrate they meet the following mandatory criteria. Bidders must provide documentation or published references that indicate the information below.

Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

Item #	CRITERIA	Identify where the supporting documentation is located in the package (page(s) numbers)
M1	<p><u>Mobile Column Lifts</u></p> <ol style="list-style-type: none">1. The lifts must be compatible with our current fleet of Rotary MCH418W mobile columns and operate in unison.2. The lift must lift trucks and heavy vehicles (buses, trucks, multi wheeled and off road vehicles etc.) weighing up to 108,000 LBS.3. Equipment must have CSA certification , ANSI/ALI ALCTV 2011 standard4. All components must be water resistant5. The system must operate as a set of six columns with the option to work in pairs or individually6. The lift operation's control system must ensure synchronized movement between all columns within 1 ½" of each other in either the raise or lower mode7. Each column must contain a single acting hydraulic cylinder and evenly distribute the lifting force to each of the columns8. All mobile control panels must be waterproof, NEMA Type 4 standard9. We require that the control console allows the lift to be fully controlled from any column.10. Columns must be easily moved by one person including a jacking mechanism to allow for travel across rough surfaces. The jacking mechanism must automatically retract when raising a vehicle	

	<p>11. Control system must synchronize all columns during operation</p> <p>12. Lifting pistons must be completely enclosed</p> <p>13. Hydraulic gear pumps must supply the appropriate pressure and flow to operate the lift</p> <p>14. The lifting height must be a minimum of 70", measured from the floor to the bottom of the cradle when the lift is at full height</p> <p>15. Lifting forks must be adjustable from 9.25 to 22" and accommodate up to a 50" tire diameter size without the use of adapters</p> <p>16. The carriage must accommodate chassis beam adapters as well as adapters for cars and forklifts</p> <p>17. Wheels on the columns must be steel and rubber coated and automatically retract under load</p> <p>18. Lifts must be battery operated with 110 volt chargers</p> <p>19. The power cable for the charger must have an automatic recoil</p> <p>20. The communication between column must be wireless with optional manual cabling when required</p> <p>21. There must be one master control panel that houses a dead-man switch, programmable logic control and switch to control all six columns (a pair or individually). The other five columns must have secondary control panels</p> <p>22. The master control must be controlled from any column</p> <p>23. Each column must include a fault sensor indicator light and an emergency stop button</p> <p>24. The manual wiring for communication must be horseshoe wired, only 3 wires so that vehicles can be driven off without removing cables</p> <p>25. Each column must be lowered manually without the use of special tools in the event of a power failure</p> <p>26. The safety systems must ensure the lift maintains the vehicle position in the event of a mechanical, electrical or hydraulic system failure</p> <p>27. The lift must have mechanical safety locks on all posts at multiple positions throughout the full length of travel.</p>	
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	<p>The locks must mechanically engage by gravity and be disengaged by means of an electric solenoid with a manual override to allow for lowering in the case of an electrical failure</p> <p>28. The lift control safety system must monitor the position of all carriages simultaneously</p> <p>29. Must have on-board diagnostics with easy to read LED display</p> <p><u>Mandatory Criteria for Air Operated Tire Lift</u></p> <ol style="list-style-type: none">1. Must have a minimum lifting capacity of 500LBS2. Must have a minimum stroke lift of 40 inches Must accept tires between 30 to 45 inches3. Must operate with the air supply system4. We currently have in our shops, approximately 120 psi5. Must have a built in air regulator to adjust air pressure to meet machines operating pressure <p><u>Mandatory Criteria for Support Stands</u></p> <ol style="list-style-type: none">1. Must have a minimum capacity of 18,000 LBS2. Must meet ASME PALD 2009 Standard3. Must supply six (6) stands that have adjustments between approximately 34 to 55 inches (87 to 141 cm)	
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