



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Travaux publics et Services gouvernementaux  
Canada

Place Bonaventure, portail Sud-Oue  
800, rue de La Gauchetière Ouest

7e étage, suite 7300

Montréal

Québec

H5A 1L6

FAX pour soumissions: (514) 496-3822

**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> Folding Mobile Gantry Crane	
<b>Solicitation No. - N° de l'invitation</b> W1985-188358/A	<b>Date</b> 2018-07-03
<b>Client Reference No. - N° de référence du client</b> W1985-188358	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTA-625-14946	
<b>File No. - N° de dossier</b> MTA-8-41009 (625)	<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 2018-08-13</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Avancée de l'Est HAE
<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> Lavoie, Corine	<b>Buyer Id - Id de l'acheteur</b> mta625
<b>Telephone No. - N° de téléphone</b> (514) 207-4777 ( )	<b>FAX No. - N° de FAX</b> (514) 496-3822
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> MINISTERE DE LA DEFENSE NATIONALE 202 DEPOT D'ATELIER BATISSE 10 SUD - FET 6769 NOTRE DAME EST MONTREAL Québec H1N 2E9 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**

Travaux publics et Services gouvernementaux Canada  
Place Bonaventure, portail Sud-Oue

800, rue de La Gauchetière Ouest

7e étage, suite 7300

Montréal

Québec

H5A 1L6

<b>Delivery Required - Livraison exigée</b>	<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**

### **1.1 Security Requirements**

There are no security requirements associated with this requirement.

### **1.2 Requirement**

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

### **1.3 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.

### **1.4 Trade Agreements**

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), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

## **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) (<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](#) (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 120 days

### **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.

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## 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 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 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 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.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Due to the nature of the bid solicitation, bids transmitted by epost Connect service will not be accepted.

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 copies)

Section III: Certifications (1 hard copies)

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 hard copy 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.

#### **3.1.1 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "D" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "D" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

#### **3.1.2 Exchange Rate Fluctuation**

*SACC Manual* Clause [C3011T](#) (2013-11-06), Exchange Rate Fluctuation

### **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**

You must demonstrate in your technical submission that your product is compliant with the **Mandatory technical criteria's to be demonstrated** of Annex "C".

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It is mandatory to provide the technical / descriptive documents of the product that you are offering (eg. drawing, data sheet, sketch, etc.) or a description to allow the technical evaluation of each technical criteria to be demonstrated. Failure to comply will render your bid non responsive.

*Note:* Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

#### **4.1.1.1 Mandatory Technical Criteria**

See Annex "C" - Mandatory technical criteria's to be demonstrated

#### **4.1.2 Financial Evaluation**

Total financial evaluation: Sum of total prices of item A+B+C+D+E mentioned in Annex "B".

*SACC Manual* Clause [A0222T](#) (2014-06-26), Evaluation of Price - Canadian / Foreign Bidders

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

##### **4.2.1 SACC Manual Clause**

[A0031T](#) (2010-08-16), Méthode de sélection – critères techniques obligatoires

### **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 Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), 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.

Send a copy of the certificate or a proof of certification for the following norms:

- 5.2.a Must comply with and be certified to CSA standards specific to this type of equipment and its components in North America and Canada. At minimum, the system must meet the criteria of the following standards:

- 5.2.a.1 CAN/CSA Z150, *Safety Code on Mobile Cranes*
- 5.2.a.2 ACNOR Z150S1-1977, *Supplement 1-1977 to CSA Standard Z150-1974 Safety Code for Mobile Cranes*
- 5.2.a.3 CAN/CSA B167, *Overhead cranes, gantry cranes, monorails, hoists, and jib cranes* or ASME B30, *Cranes, Hoists Related Offerings*

- 5.2.b The wireless remote control module must meet all electromagnetic interference standards in effect on military bases in Canada that include the following, at a minimum:

- 5.2.b.1 DOAD 3026-1, *Radio Frequency Safety Programme*
- 5.2.b.2 C-55-040-001/TS-002, *Radio Frequency Safety Standards and Requirements*
- 5.2.b.3 STANAG 2345, *Evaluation and Control of Personnel Exposure to Radio Frequency Fields – 3 kHz to 300 GHz*
- 5.2.b.4 A-GG-040-001/AG-001, *General Safety Programme*

### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of 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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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.

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## **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**

**6.1.1** 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**

SACC *Manual* Clause [2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### **6.4 Term of Contract**

#### **6.4.1 Delivery Date**

While delivery is requested by March 15, 2019, the best delivery that could be offered is

\_\_\_\_\_ .

#### **6.4.2 Delivery Points**

Delivery of the requirement will be made to the following delivery point:

202 Dépôt d'Atelier  
Batisse 10 Sud, FET  
6769 Notre Dame Est  
Montréal, QC  
H1N 2E9

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## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Corine Lavoie  
Title: Supply Officer  
Public Works and Government Services Canada  
Acquisitions Branch  
800 de la Gauchetière Ouest, Suite 1110, Montreal (Quebec), Canada, H5A 1L6

Telephone: 514-207-4777  
Facsimile: 514-496-3822  
E-mail address: corine.lavoie@tpsgc-pwgsc.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 Technical Authority

The Technical Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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.

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### 6.5.3 Contractor's Representative

The Contractor's Representative for the Contract is:

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

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

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

Address: \_\_\_\_\_

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

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

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

### 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 a firm price as specified in Annex "B" for a cost of \$ \_\_\_\_\_. Customs duties and Applicable Taxes are extra.

The contract will be awarded in Canadian currency. The rate given by the Bank of Canada in effect on the bid solicitation closing date will be applied as a conversion factor.

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

#### 6.6.4 SACC Manual Clauses

SACC Manual clause [A2000C](#) (2006-06-16) Foreign Nationals (Canadian Contractor)

SACC Manual clause [A2001C](#) (2006-06-16) Foreign Nationals (Foreign Contractor)

SACC Manual clause [C2000C](#) (2007-11-30) Taxes - Foreign-based Contractor

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### 6.6.5 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

### 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.

### 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 Quebec.

### 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 general conditions 2010A (2016-04-04); General Conditions - Goods (Medium Complexity)
- (c) Annex A, Requirement;
- (d) Annex B, Basis of payment
- (e) Annex C, Mandatory Technical Criteria's to be demonstrated
- (f) the Contractor's bid dated \_\_\_\_\_

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## 6.11 SACC Manual Clauses

[G1005C](#) (2016-01-28) Insurance - No Specific Requirement

[A9062C](#), (2011-05-16) Canadian Forces Site Regulations

## **ANNEX "A"**

### **REQUIREMENT**

#### **1.0 Objective**

The Workshop Depot wants to acquire a collapsible mobile gantry crane, and its storage unit, in order to increase its lifting capacities and provide more flexibility to its material handling operations. The collapsible mobile gantry crane could be used to hoist military equipment inside the buildings of the 202 Workshop Depot and outside its Montréal garrison located in Longue-Pointe. The current mandate is for the purchase, installation and maintenance of a collapsible mobile gantry crane having a lifting capacity of thirty (30) tonnes.

#### **2.0 Mandatory Technical Specifications**

- 2.1 Must comply with and be certified to CSA standards specific to this type of equipment and its components in North America and Canada. At minimum, the system must meet the criteria of the following standards:
  - 2.1.1 CAN/CSA Z150, *Safety Code on Mobile Cranes*
  - 2.1.2 ACNOR Z150S1-1977, *Supplement 1-1977 to CSA Standard Z150-1974 Safety Code for Mobile Cranes*
  - 2.1.3 CAN/CSA B167, *Overhead cranes, gantry cranes, monorails, hoists, and jib cranes* or ASME B30, *Cranes, Hoists Related Offerings*
- 2.2 The collapsible mobile gantry crane must be equipped with at least four (4) all-wheel drive pneumatic wheels, allowing it to be operated on uneven concrete or asphalt surfaces.
- 2.3 The motorized wheel steering commands must include the following modes at minimum:
  - 2.3.1 Normal: front-back
  - 2.3.2 Crab: all wheels follow the same direction
  - 2.3.3 Carrousel: capable of rotating around its axis
  - 2.3.4 Transversal: capable of adjusting all wheels at 90-degree angles
- 2.4 The system must be able to move at minimum speeds of 1 km/h with a minimum load of 30 000 kg and 2 km/h without load.
- 2.5 Lifting capacity for the mobile gantry crane must be a minimum of 30 000 kg.
- 2.6 The system must be equipped with an overload protection device to enable the stoppage of lifting operations in the event of an overcapacity lift.
- 2.7 The mobile gantry crane must perform lifting operations using a synchronized hydraulic lifting system.

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- 2.8 The lift height must be adjustable according to the piece of equipment being lifted, and must respect the inherent constraints of the internal dimensions of buildings (Attachment #2). The maximum height while moving with a turret (Attachment #1) must be 24 feet, which corresponds to the height of the building's cross-beams. The column height may be higher (maximum 33 feet) when lifting, but must respect the 24-foot limitation when in motion.
- 2.9 The gantry crane must be designed to accommodate a Leopard 2 tank chassis, in addition to being capable of lifting the type of load described in Attachment #1. Below are the nominal dimensions of the tank:
- 2.9.1 Width: 3.75 metres (12.03 ft.)  
2.9.2 Length: 10 metres (32.81 ft.), excluding the cannon  
2.9.3 Height: 3.01 metres (9.88 ft.)
- 2.10 The overall dimensions of the collapsible mobile gantry crane must meet the mobility requirements (Attachment # 2) inside the buildings and allow the system to operate on garrison roads (maximum width of 5 metres). If the system operates with hydraulic height pillars, the dimensions to be respected are as follows:
- 2.10.1 Maximum width: 21 feet  
2.10.2 Maximum height under load: 24 feet
- 2.11 The collapsible mobile gantry crane must be able to be folded down and stored in a standard 40-foot shipping container on its own. Standard dimensions for a 40-foot shipping container are:
- 2.11.1 Inside width of container: 7'8" (2.337 m)  
2.11.2 Inside height of container: 7'10" (2.388 m)  
2.11.3 Inside length of container: 39'5" (12.014 m)  
2.11.4 Width of container door: 7'8" (2.337 m)  
2.11.5 Height of container door: 7'6" (2.286 m)
- 2.12 The system must be capable of being stored and redeployed by operators within 90 minutes (1.5 hours) for each separate operation. For this purpose, the system must include an automatic folding system that minimizes manual operations.
- 2.13 The system must have its own power source to operate autonomously. The system must run on diesel fuel as per article 3(1)(f) of the Sulfur in Diesel Fuel Regulations derived from the Canadian Environmental Protection Act..
- 2.14 Sound levels generated by the mobile gantry crane systems must not exceed 87 dBA, in accordance with the maximum exposure level of the Canada Occupational Health and Safety Regulations.
- 2.15 The system must be able to operate under load on concrete access ramps having an inclination angle of 7 degrees.
- 2.16 The collapsible mobile gantry crane must be able to be operated and stored outside during winter, at minimum temperatures that may reach - 40 °C.
- 2.17 The system must be able to be used with standard rigging procedures that conform to CAN / CSA B167, *Safety Standard for Maintenance and Inspection of Overhead Cranes, Gantry Cranes, Monorails, Hoists, and Trolleys*.

2.18 You must provide the necessary accessories to be able to lift the following:

2.18.1 Leopard 2 tank turrets

- 2.18.1.1 Weight: 22000 kg
- 2.18.1.2 Three T-anchor points, two in front with 30 inches of separation, and the centered third in back with 80 inches separation from the two others
- 2.18.1.3 The hooks will need to hook into a semi-oblong opening, with the opening height being 3 inches, the width being 3.45 inches, and the thickness of the ring being 1.5 inches
- 2.18.1.4 Load volume: Length of 396 inches, width of 120 inches and height of 90 inches

2.18.2 Leopard 2 tank motors:

- 2.18.2.1 Weight: 2800 kg
- 2.18.2.2 Three T-anchor points, two in front with 20 inches of separation, and the centered third in back with 62 inches separation from the two others
- 2.18.2.3 The two front hooks shall hook into an oblong opening 1¾ inches in length, and 1 inch wide with a ½ inch ring thickness
- 2.18.2.4 The rear hook shall hook into an oblong opening 1¾ inches in length, and 1 inch wide with a ½ inch ring thickness

2.18.3 Leopard 2 tank chassis:

- 2.18.3.1 Weight: 28000 kg
- 2.18.3.2 Four anchor points, two in front separated by 51.5 inches, two in the rear separated by 72 inches, with a 297-inch separation distance between front and rear
- 2.18.3.3 The hooks shall hang in a semi-oblong opening having a diameter of 2.06 inches, with the ring thickness being 1.75 "
- 2.18.3.4 Load volume: Length of 297 inches, width of 137 inches and height of 53 inches

2.18.4 M113 vehicle chassis:

- 2.18.4.1 Weight: 14000 kg
- 2.18.4.2 Four anchor points, two in front with 94-inch separation, two in the rear with 99-inch separation, with a distance of 179 inches between front and rear
- 2.18.4.3 Hooks shall hook into a semi-oblong opening having a width of 2.82 inches and a height of 3.875 inches, and the ring thickness shall be 1.25 inches
- 2.18.4.4 Load volume: Length of 250 inches, width of 100 inches and height of 87 inches

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2.18.5 VBL 3.0 and 6.0 chassis:

- 2.18.5.1 Weight: 21000 kg
  - 2.18.5.2 Four anchor points, two in front with 78-inch separation, two in the rear with 100-inch separation, with a distance of 248 inches between front and rear
  - 2.18.5.3 Hooks shall hook into a circular opening having a diameter of 3.5 inches and an exterior diameter of 6.16 inches, and the ring thickness shall be 1.33 inches
  - 2.18.5.4 Load volume: Length of 269 inches, width of 109 inches and height of 74 inches
- 2.19 The collapsible mobile gantry crane must be capable of lifting the Leopard 2 tank turret load as detailed in Section 2.18.1, from a height of 80 inches from ground.
- 2.20 The collapsible mobile gantry crane shall be painted with a yellow safety electrostatic powder coating.
- 2.21 Shall be equipped with emergency shut-off controls at each corner of the collapsible mobile gantry crane, to enable staff to stop operations in the event of an emergency.
- 2.22 The system shall be equipped with manual controls directly on the gantry crane and be equipped with a wireless remote control module.
- 2.23 The control system shall be equipped with a programmable controller that is able to correct the lifting system in order to keep the load lifting synchronized.
- 2.24 The wireless remote control module must meet all electromagnetic interference standards in effect on military bases in Canada that include the following, at a minimum:
- 3.23.1 DOAD 3026-1, *Radio Frequency Safety Programme*
  - 3.23.2 C-55-040-001/TS-002, *Radio Frequency Safety Standards and Requirements*
  - 3.23.3 STANAG 2345, *Evaluation and Control of Personnel Exposure to Radio Frequency Fields – 3 kHz to 300 GHz*
  - 3.23.4 A-GG-040-001/AG-001, *General Safety Programme*

**3.0 Deliverables**

- 3.1 Contact the Project Manager within two weeks of awarding of contract to establish the commissioning schedule. The commissioning and training of operators and maintenance technicians must be completed no later than March 15, 2019.
- 3.2 With the equipment, provide operator and maintenance manuals in electronic format, in both English (mandatory) and French (if available). The operator's manual must include a list of spare parts. If the manual does not include one, a list must be provided.

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#### **4.0 Training**

- 4.1 Provide on-site training, in French, for operators and those responsible for preventive and corrective maintenance, no later than one week after the installation and start-up of the system. Training shall be for a minimum of 5 days of 8 hours, and must include a theoretical component and a practical component for at least 4 employees. Training may be longer if deemed necessary. Training documents shall also be provided to the Project Manager.

#### **5.0 After-sales service**

- 5.1 If applicable, provide ongoing updates for software and firmware used to control the collapsible mobile gantry crane for a minimum of 3 years following the awarding of the contract.

#### **6.0 Delivery and installation**

- 6.1 Deliver and install on site the collapsible mobile gantry crane meeting the required technical criteria outlined in point (2.0) and its storage container.
- 6.2 For the installation, provide all tools and heavy equipment required by installers. No tools or industrial equipment from 202 Workshop Depot shall be used for the installation without the prior approval of the Project Manager.

### Attachment #1: Load Dimensions

The gantry crane must be able to lift the load (Figure 1) of a turret weighing approximately 22000 kg, and place it on the support illustrated in figures 2 and 3. The use of a lifting beam to shorten the lift height is acceptable.

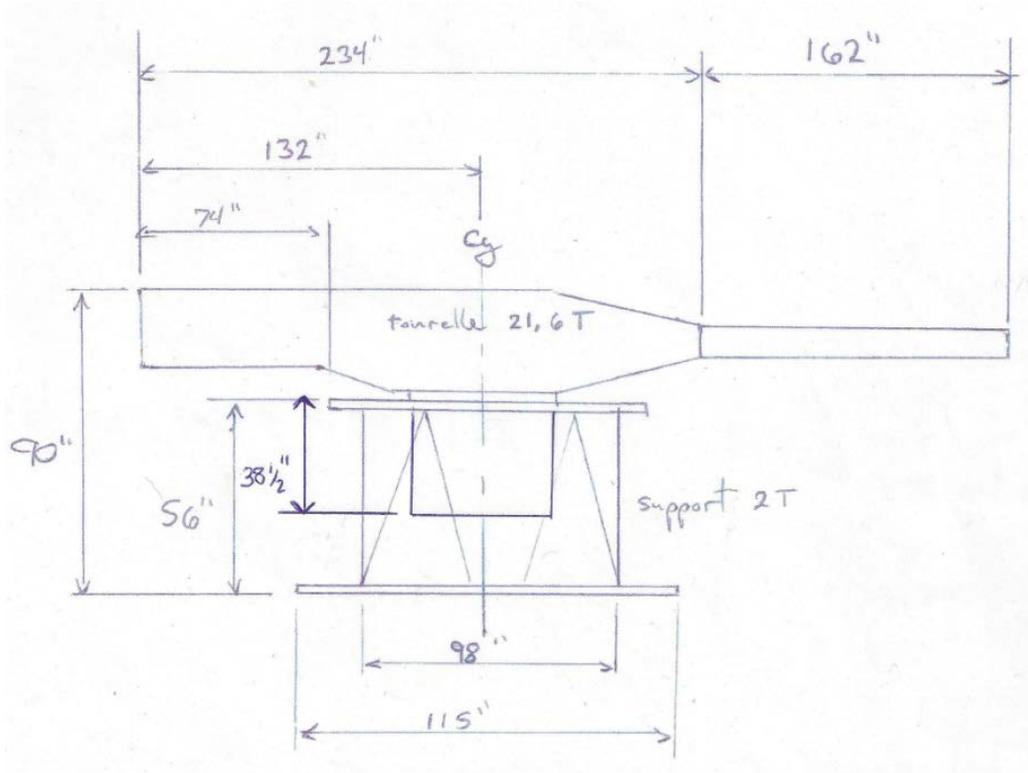
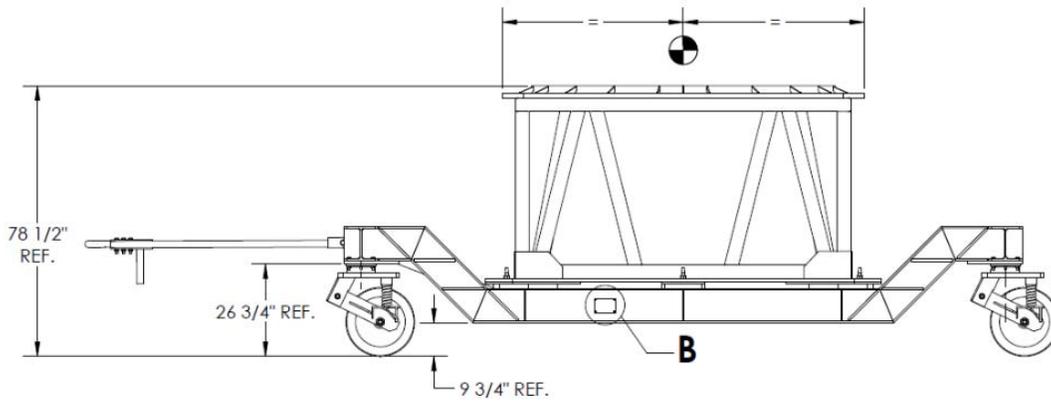
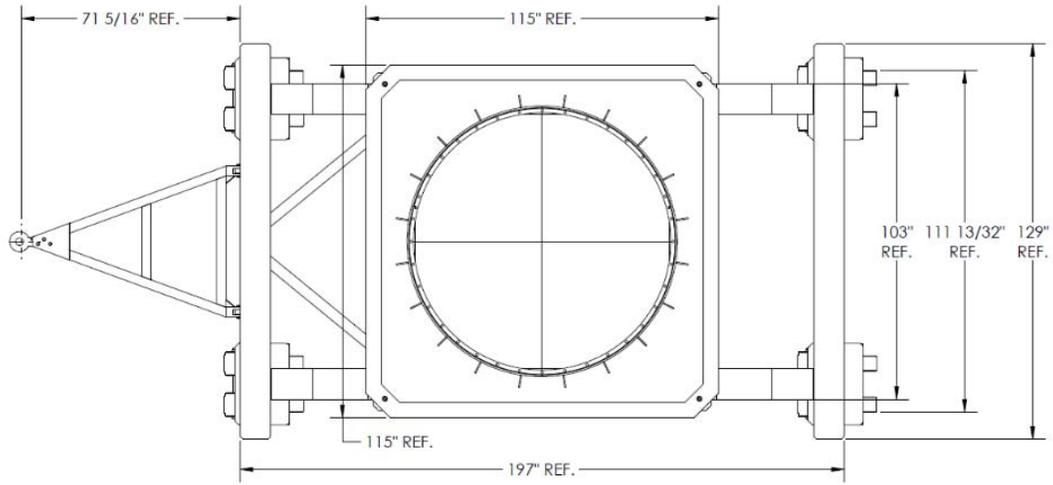


Figure 1 - Illustration and dimensions of a turret on its support



### Attachment #2: Infrastructure dimensions

- 1a. Mobility constraints
  - 1a.1 Column width: 23 feet
  - 1a.2 Height of transverse girders: 24 feet
  - 1a.3 Ceiling height: 36 feet
  
- 2a. Building access possibilities (for delivery limitations only):
  - 2a.1 North-west door of building
    - 2a.1.1. Height: 4.20 m
    - 2a.1.2. Width: 4.58 m



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- 2a.2 South-west door of building
- 2a.2.1 Height: 4.20 m
- 2a.2.2 Width: 4.60 m



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**ANNEX "B"**

**BASIS OF PAYMENT**

<b>Item</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit Price</b>	<b>Total Price</b>
<b>A.</b>	A collapsible mobile gantry crane as described in part 2.0 Mandatory Technical Specifications of Annex "A" - Requirement	<b>1</b>	\$ _____	\$ _____
<b>B.</b>	Delivery as per specifications mentioned in part 6.4.2. of the resulting contract clauses.	<b>1</b>	\$ _____	\$ _____
<b>C.</b>	Installation and commissioning as described in part 6.0 of Annex "A" - Requirement	<b>1</b>	\$ _____	\$ _____
<b>D.</b>	Training as described in part 4.0 of Annex "A" - Requirement	<b>1</b>	\$ _____	\$ _____
<b>E.</b>	Updates for software and firmware as described in part 5.0 of Annex "A" - Requirement	<b>1</b>	\$ _____	\$ _____
	<b>TOTAL (A+B+C+D+E)</b>			\$ _____

**ANNEX "C"**

**MANDATORY TECHNICAL CRITERA'S TO BE DEMONSTRATED**

<b>No.</b>	<b>Mandatory technical specifications</b>	<b>Reference: Please specify where can be found these items within your technical/descriptive documents and/or technical literature/notes.</b>
2.4	The system must be able to move at minimum speeds of 1 km/h with a minimum load of 30 000 kg and 2 km/h without load.	
2.5	Lifting capacity for the mobile gantry crane must be a minimum of 30 000 kg.	
2.9	The gantry crane must be designed to accommodate a Leopard 2 tank chassis, in addition to being capable of lifting the type of load described in Attachment #1. Below are the nominal dimensions of the tank: 2.9.1 Width: 3.75 metres (12.03 ft.) 2.9.2 Length: 10 metres (32.81 ft.), excluding the cannon 2.9.3 Height: 3.01 metres (9.88 ft.)	
2.10	The overall dimensions of the collapsible mobile gantry crane must meet the mobility requirements (Attachment # 2) inside the buildings and allow the system to operate on garrison roads (maximum width of 5 metres). If the system operates with hydraulic height pillars, the dimensions to be respected are as follows: 2.10.1 Maximum width: 21 feet 2.10.2 Maximum height under load: 24 feet	
2.11	The collapsible mobile gantry crane must be able to be folded down and stored in a standard 40-foot shipping container on its own. Standard dimensions for a 40-foot shipping container are: 2.11.1 Inside width of container: 7'8" (2.337 m) 2.11.2 Inside height of container: 7'10" (2.388 m) 2.11.3 Inside length of container: 39'5" (12.014 m) 2.11.4 Width of container door: 7'8" (2.337 m) 2.11.5 Height of container door: 7'6" (2.286 m)	
2.12	The system must be capable of being stored and redeployed by operators within 90 minutes (1.5 hours) for each separate operation. For this purpose, the system must include an automatic folding system that minimizes manual operations.	

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## **ANNEX "D" to PART 3 OF THE BID SOLICITATION**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)