

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Travaux publics et Services gouvernementaux  
Canada  
Place Bonaventure, portail Sud-Est  
800, rue de La Gauchetière Ouest  
7 ième étage  
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> Pont Roulant Mobile	
<b>Solicitation No. - N° de l'invitation</b> W1985-125463/B	<b>Date</b> 2012-06-04
<b>Client Reference No. - N° de référence du client</b> W1985-12-5463	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTA-850-12048	
<b>File No. - N° de dossier</b> MTA-1-34436 (850)	<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 2012-07-03</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> Jutras, Jessie	<b>Buyer Id - Id de l'acheteur</b> mta850
<b>Telephone No. - N° de téléphone</b> (514) 496-3871 ( )	<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 DÉPOT D'ATELIER ÉDIFICE 10 SUD - FET RÉCEPTION COMMERCIALE 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-Est  
800, rue de La Gauchetière Ouest  
7 ième étage  
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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W1985-125463/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

mta850

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File No. - N° du dossier

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## List of Annexes:

Annex A	Requirement
Annex B	Pricing
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**This bid solicitation cancels and supersedes previous bid solicitation number W1985-125463/A dated March 12, 2012 with a closing of April 23, 2012 at 2:00 PM.**

## **PART 1 - GENERAL INFORMATION**

### **1.1. Security Requirement**

There is no security requirement associated with the requirement.

### **1.2. Requirement**

The requirement is detailed in annex A - Requirement that form part of the request for proposal and resulting contract.

### **1.3. Debriefings**

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

## 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* (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) 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 (2-03-2012), 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 **ten (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 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.

## 2.4 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least **ten (10) calendar days** before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## 2.5. 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**

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) (Annex B)

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.

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mta850

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File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

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## **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the basis of payment. The total amount of Goods and Services Tax or Harmonized Sales Tax must be shown separately, if applicable. (See annex B)

### **3.1.1 SACC Manual Clauses**

C3011T (11/01/2010) Exchange Rate Fluctuation

## **Section III: Certifications**

Bidders must submit the certifications 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

*It is mandatory to provide technical/ descriptive documents of the product that you are offering to allow it's technical evaluation. Failure to comply will render your bid non responsive.*

*You have to demonstrate in your technical submission that your product is compliant with every characteristics mentionned in Annex C.*

##### 4.1.1.1 Technical Mandatory Requirements

- Compliance to Mandatory criteria to comply upon bid deposit of Annex C.

#### 4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB Destination, Canadian customs duties and excise taxes included.

SACC Manual Clauses      A222T      Evaluation of Price      (11/01/2010),

**The contract will be awarded in Canadian dollars.** In the event the bid recommended for Contract award was submitted in foreign currency it will be converted using the rate given by the Bank of Canada in effect on the bid solicitation closing date.

### 4.2. 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.

## **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.

### **5.1. 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.

#### **5.1.1. Federal Contractors Program - over \$25,000 and below \$200,000**

Suppliers who are subject to the Federal Bidders Program (FCP) and have been declared ineligible bidders 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 bidders 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 bidders, 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.

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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 requirement in accordance with Annex A - Requirement that form part of the contract.

### 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 issued by Public Works and Government Services Canada. (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>)

#### 3.1 General Conditions

2010A (2-03-2012), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 4. Term of Contract

#### 4.1 Delivery Date

<b><u>The delivery is required no later than 16 weeks following the awarding of the contract.</u></b>
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### 5. Authorities

#### 5.1 Contracting Authorities

The Contracting Authority for the Contract is:

Jessie Jutras

Agent d'approvisionnement | Supply Officer

Direction générale des approvisionnements | Acquisitions Branch

Bureau régional du Québec | Quebec Regional Office

Travaux publics et Services gouvernementaux Canada | Public Works and Government Services Canada

800 rue de la Gauchetière Ouest, Suite 7300, Montréal (Québec) Canada, H5A 1L6

T: 514.496.3871 | F: 514.496.3822 |

E-mail: [jessie.jutras@tpsgc-pwgsc.gc.ca](mailto:jessie.jutras@tpsgc-pwgsc.gc.ca)

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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 Contact at Customer Department

(to be completed by Canada at the time of award)

For all information related to invoicing and/or payments you may communicate with:

Customer Department: \_\_\_\_\_

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

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

## 5.3 Contractor Contacts

Name and telephone number of the person responsible for :

### General enquiries & Delivery follow-up

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

Telephone No. : \_\_\_\_\_

Facsimile No. : \_\_\_\_\_

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

## 6. 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 of \$ \_\_\_\_\_ (*amount to be inserted at contract award*). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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**

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- A) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- B) all such documents have been verified by Canada;
- C) the Work delivered has been accepted by Canada.

## **7. Invoicing Instructions**

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.

## **8. Certifications**

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 entire contract period. 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 in the province of \_\_\_\_\_.

## 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) 2010A (2-03-2012), General Conditions - Goods (Medium Complexity)
- (c) Annex A, Requirement;
- (d) Annex B, Pricing
- (e) the Contractor's bid dated \_\_\_\_\_, as amended \_\_\_\_\_.

## 11. SACC Manual Clauses

SACC Référence	Section	Date
A2000C	Foreign Nationals (Canadian Contractor)	16/06/06
A2001C	Foreign Nationals (Foreign Contractor)	16/06/06
B1505C	Electrical Equipment	16/06/06
C2000C	Taxes - Foreign-based Contractor	30/11/07
G1005C	Insurance	12/05/08

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## **Annex A**

### **Requirement**

#### **1. Background**

The 202 Workshop Depot (202WD) is a repair unit that offers various technical services. The terms of reference of the 202WD are to ensure that Canadian Forces land equipment and material is maintained.

#### **2. Terms of Reference**

The 202 Workshop Depot must acquire a mobile gantry crane to install these engines in armoured vehicles. Up until now, the vehicles have had to be transferred to another department to use their gantry crane to install the engines. Transferring the vehicles takes time and slows down the vehicle disassembly and assembly operation. This type of mobile gantry crane would save us time and space. The height, mobility and loading capacity of the mobile gantry crane are all important points to meet our needs.

#### **3. Mandatory Specifications of the mobile gantry crane**

- 3.1 The mobile gantry crane must be made and welded with machine steel and the hardware must be zinc plated minimum for longevity.
- 3.2 The mobile gantry crane must provide adequate lifting for applications requiring requiring a displacement of 200 feet with heavy loads up to 15 tons (such as specified in the technical specification of the mobile gantry crane).
- 3.3 The mobile gantry crane must operate without rails.
- 3.4 The mobile gantry crane must offer a minimum lifting height of 21 feet (under the hoist hook) and the maximum height of the complete system must not exceed 27 feet.
- 3.5 The mobile gantry crane's legs must be designed for motorized-wheel applications.
- 3.6 The wheel brakes, flashing lights, alarms, electrical and control panels, and reels must be provided on and installed by the manufacturer of the mobile gantry crane.
- 3.7 The carrying wheels must be made of moulded polyurethane to protect the floor.
- 3.8 The wheels must be pivoting and must lock in four positions.
- 3.9 The wheels must be motorized.



3.10 The mobile gantry crane must have locking wheels 90 degrees apart, which will allow it to roll in a straight line to help prevent any movement under the load when it is locked.

3.11 The gantry crane must be yellow in colour for safety reasons and to meet workshop standards.

#### **4. Technical mandatory specifications of the gantry crane**

4.1 The total maximum length of the gantry crane: 20 feet/6.09 metres.

4.2 The minimum working length available: 15 feet/4.57 metres.

4.3 The maximum overall height:: 27 feet / 8.23 metres.

4.4 The maximum width of legs: 12 feet/ 3.68 metres.

4.5 The minimum capacity: 15 tonnes/15,000 kg /33,069 lbs.

#### **5. Mandatory Characteristics of the motorized-wheel system**

5.1 The motorized assembly must have two polyurethane disc assemblies without rails.

5.2 The gantry crane must be able to move in all directions.

5.3 The crane must be able to make turns and to do rotations (rotate on itself) of minimum 180°.

5.4 The motorized-wheel system must have a polyurethane bumper.

5.5 Maximum engine supply: 230/460 V 3-phase TEFC motor.

5.6 The displacement speed must be minimum 20 FPM and maximum 60 FPM.

5.7 The gantry crane must have a control box for dangerous areas.

5.8 The gantry crane must have an engine brake.

5.9 The gantry crane must have a revolving warning light and an audible alarm that are triggered when the machine is moving.

5.10 The gantry crane power system must have a reel and cable at least 60 feet/18.3 metres long.

5.11 The gantry crane must have a parking button.

**6. Mandatory Characteristics of the cable-type electric hoist:**

6.1 Minimum lifting height: 21 feet or 6.4 metres.

6.2 The limit switch for raising and lowering must be included.

6.3 The cable must be galvanized.

6.4 The engine guard is required.

6.5 Minimum lifting speed: between 3.5 and 0.9 FPM.

6.6 Hoist's minimum travelling speed: between 20 and 5 FPM.

6.7 Maximum power supply: 575 volts, 3 phases and 60 Hz.

6.8 The height of the hook after installation must be at least 21 feet or 6.4 metres.

6.9 The lifting is done by a cable and chain electric hoist, depending on the load.

**7. After-sales service**

7.1 The bidder must provide after-sales service (supports technique and guaranteed repair) available in up to 48 hours.

**8. Training**

8.1 The bidder must provide training for four to five operators of mobile rolling bridge so that they use it properly. This training will take place on-site at 202 Workshop Depot.

8.2 The bidder must also provide training for four to five people in the Group as to determine good practices for long-term maintenance on the bridge. This training will take place on-site at 202 Workshop Depot.

## **Annex B** **Pricing**

**A) Mobile gantry crane** as describe in Annex A - Requirement.

1 EA @ \_\_\_\_\_ \$

*Note (1): The price must include the equipment, shipping fees to destination, training, one-year warranty and the after sale service.*

### **Options**

**Additional warranty applicable once the initial warranty of 12 months will be expired. ( See General Conditions 2010A - Goods (Medium Complexity), 9. Warranty)**

Additional warranty of one year for parts and labour \_\_\_\_\_ \$

Additional warranty of two years for parts and labour \_\_\_\_\_ \$

*Note (2): Please note that the options will not be included in the financial evaluation.*

**Annex C****Mandatory technical specifications to demonstrate upon bid deposit**

**All mandatory technical specifications must be met. Canada request that bidders indicate that they meet each stated criterion, indicating the title of the attached supporting documentation, or the page of the attached brochure or catalogue that meets the criterion. Bidders will be rejected if they do not meet all mandatory requirements.**

**3. Mandatory Specifications of the mobile gantry crane**

- 3.1 The mobile gantry crane must be made and welded with machine steel and the hardware must be zinc plated minimum for longevity.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.2 The mobile gantry crane must provide adequate lifting for applications requiring requiring a displacement of 200 feet with heavy loads up to 15 tons (such as specified in the technical specification of the mobile gantry crane).

Reference to Contractor's Proposal \_\_\_\_\_

- 3.3 The mobile gantry crane must operate without rails.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.4 The mobile gantry crane must offer a minimum lifting height of 21 feet (under the hoist hook) and the maximum height of the complete system must not exceed 27 feet.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.5 The mobile gantry crane's legs must be designed for motorized-wheel applications.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.6 The wheel brakes, flashing lights, alarms, electrical and control panels, and reels must be provided on and installed by the manufacturer of the mobile gantry crane.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.7 The carrying wheels must be made of moulded polyurethane to protect the floor.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.8 The wheels must be pivoting and must lock in four positions.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.9 The wheels must be motorized.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.10 The mobile gantry crane must have locking wheels 90 degrees apart, which will allow it to roll in a straight line to help prevent any movement under the load when it is locked.

Reference to Contractor's Proposal \_\_\_\_\_

- 3.11 The gantry crane must be yellow in colour for safety reasons and to meet workshop standards.

Reference to Contractor's Proposal \_\_\_\_\_

#### **4. Technical mandatory specifications of the gantry crane**

- 4.1 The total maximum length of the gantry crane: 20 feet/6.09 metres.

Reference to Contractor's Proposal \_\_\_\_\_

- 4.2 The minimum working length available: 15 feet/4.57 metres.

Reference to Contractor's Proposal \_\_\_\_\_

- 4.3 The maximum overall height:: 27 feet / 8.23 metres.

Reference to Contractor's Proposal \_\_\_\_\_

- 4.4 The maximum width of legs: 12 feet/ 3.68 metres.

Reference to Contractor's Proposal \_\_\_\_\_

4.5 The minimum capacity: 15 tonnes/15,000 kg /33,069 lbs.

Reference to Contractor's Proposal \_\_\_\_\_

**5. Mandatory Characteristics of the motorized-wheel system**

5.1 The motorized assembly must have two polyurethane disc assemblies without rails.

Reference to Contractor's Proposal \_\_\_\_\_

5.2 The gantry crane must be able to move in all directions.

Reference to Contractor's Proposal \_\_\_\_\_

5.3 The crane must be able to make turns and to do rotations (rotate on itself) of minimum 180°.

Reference to Contractor's Proposal \_\_\_\_\_

5.4 The motorized-wheel system must have a polyurethane bumper.

Reference to Contractor's Proposal \_\_\_\_\_

5.5 Maximum engine supply: 230/460 V 3-phase TEFC motor.

Reference to Contractor's Proposal \_\_\_\_\_

5.6 The displacement speed must be minimum 20 FPM and maximum 60 FPM.

Reference to Contractor's Proposal \_\_\_\_\_

5.7 The gantry crane must have a control box for dangerous areas.

Reference to Contractor's Proposal \_\_\_\_\_

5.8 The gantry crane must have an engine brake.

Reference to Contractor's Proposal \_\_\_\_\_

5.9 The gantry crane must have a revolving warning light and an audible alarm that are triggered when the machine is moving.

Reference to Contractor's Proposal \_\_\_\_\_

- 5.10 The gantry crane power system must have a reel and cable at least 60 feet/18.3 metres long.

Reference to Contractor's Proposal \_\_\_\_\_

- 5.11 The gantry crane must have a parking button.

Reference to Contractor's Proposal \_\_\_\_\_

**6. Mandatory Characteristics of the cable-type electric hoist:**

- 6.1 Minimum lifting height: 21 feet or 6.4 metres.

Reference to Contractor's Proposal \_\_\_\_\_

- 6.2 The limit switch for raising and lowering must be included.

Reference to Contractor's Proposal \_\_\_\_\_

- 6.3 The cable must be galvanized.

Reference to Contractor's Proposal \_\_\_\_\_

- 6.4 The engine guard is required.

Reference to Contractor's Proposal \_\_\_\_\_

- 6.5 Minimum lifting speed: between 3.5 and 0.9 FPM.

Reference to Contractor's Proposal \_\_\_\_\_

- 6.6 Hoist's minimum travelling speed: between 20 and 5 FPM.

Reference to Contractor's Proposal \_\_\_\_\_

6.7 Maximum power supply: 575 volts, 3 phases and 60 Hz.

Reference to Contractor's Proposal \_\_\_\_\_

6.8 The height of the hook after installation must be at least 21 feet or 6.4 metres.

Reference to Contractor's Proposal \_\_\_\_\_

6.9 The lifting is done by a cable and chain electric hoist, depending on the load.

Reference to Contractor's Proposal \_\_\_\_\_