



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

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**11 Laurier St. / 11, rue Laurier**

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**Québec**

**K1A 0S5**

**Bid Fax: (819) 997-9776**

**SOLICITATION AMENDMENT**

**MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

**Comments - Commentaires**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

**Industrial Vehicles & Machinery Products Division**

**LEFTD - HS Division**

**140, O'Connor Street/**

**140, rue O'Connor,**

**East Tower, 4th Floor/**

**Tour Est, 4e étage**

**Ottawa**

**Ontario**

**K1A 0S5**

<b>Title - Sujet</b> 3 Tonne Bridge Crane	
<b>Solicitation No. - N° de l'invitation</b> U6309-197271/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> U6309-197271	<b>Date</b> 2019-01-30
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HS-652-76102	
<b>File No. - N° de dossier</b> hs652.U6309-197271	<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 2019-02-06</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST	
<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> Lafontaine, Raphael	<b>Buyer Id - Id de l'acheteur</b> hs652
<b>Telephone No. - N° de téléphone</b> (613) 296-5030 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<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>

**AMENDMENT 002**

This amendment is raised to modify the Statement of Work.

**Statement of Work (SOW) – 12-12-2018**

Delete: In its entirety

Insert: Bridge\_Crane\_SOW\_Modified2\_EN.doc

All other terms and conditions remain unchanged.

## Statement of Work (SOW)

### 1. Project Title:

3 tonne bridge crane installation

### 2. Project Objective:

The work is to supply, deliver, install, and commission a new 3 tonne electric overhead motorized bridge crane with electric chain hoist and motorized trolley. The bridge crane must be installed onto the rails and supports of our existing 10 tonne bridge crane. All three axes must be powered by variable frequency drives (VFD) with adjustable two speeds and operated via remote control. The 3 tonne and existing 10 tonne bridge cranes must be able to be used independently or simultaneously with the same acceleration and speeds via a selector switch on the remote controls

### 3. Existing 10 Tonne Crane

- Overall System: 10 tonne capacity bridge crane manufactured by Provincial Engineering Ltd. – Niagara Falls.
- Bridge: Double girder top running with approximately 12.2m span. Upgraded to adjustable 2 speed control by VFD in 2017
- Trolley: Top running. Upgraded to adjustable 2 speed control by VFD in 2017.
- Hoist: Wire rope hoist with 7m lift at a single lift speed of approximately 4.5m/minute
- Operators controls: Enrange Flex 8EX-T remote controls

### 4. Requirements:

The contractor must supply, deliver, install and commission the 3 tonne Bridge Crane and ancillary items in accordance with the following:

#### 4.1. Complete Bridge Crane:

- The bridge crane and it's components must have a lift capacity of 3 tonnes
- The operator control must be via remote control with built in emergency stop button and selection switch to control either crane independently or simultaneously. Two remote controls must be supplied or the existing remotes for the 10 tonne bridge crane can be reused if compatible.

- The contractor must provide and install safety limit switches to prevent collisions into end stops or between the two crane bridges (3 tonne and existing 10 tonne). In simultaneous mode the cranes do not need to communicate in regards to end stop limit switches.
- The runway conductor system must be replaced so that it will have sufficient ampacity to supply both cranes when they are being used simultaneously and must incorporate a separate grounding conductor. The contractor is also responsible to upgrade the system conductor bars, hangers, collectors, and collector support arms on both the existing and new cranes. The collectors shall be of dual collector design.

#### 4.2. Bridge:

- Top Running
- Single Girder
- Installed upon the rail runway of the existing 10 tonne bridge crane
- Travel speed via a VFD with adjustable 2 speed control
- The speeds and accelerations of the 3 tonne and 10 tonne bridges must be the same

#### 4.3. Trolley:

- 3 tonne Kito MR trolley or equivalent
- Travel speed via a VFD with adjustable 2 speed control
- The speeds and accelerations of the 3 tonne and 10 tonne trolleys must be the same

#### 4.4. Hoist:

- 3 tonne Kito ER2 electric chain hoist or equivalent
- A minimum of 6 meter lift
- Hoist speed via VFD with adjustable 2 speed control
- High speed of the 3 tonne hoist must match the speed of the 10 tonne hoist

#### 4.5. Installation Requirements:

- All work including testing and commissioning must be completed according to the requirements of CSA B167-16

#### 4.6. Commissioning:

- The contractor must arrange and pass an electrical safety authority (ESA) or Canadian Standards Association (CSA) equivalent examination of the 3 tonne bridge crane. The ESA/CSA report must be provided to the client within 1 week of being issued.
- The contractor must arrange and perform a load test- of the 3 tonne bridge crane as per CSA B167-16. The ~~3 tonne bridge crane must pass the load test performed by an independent firm~~ results of the load test must be witnessed an independent engineering firm before

the 3 tonne crane ~~it~~-can be put into service. In addition, a sealed load test report must be submitted to ISED by this firm. Innovation, Science and Economic Development Canada will supply the necessary weights but the contractor must supply the rigging hardware to perform the load test.

#### 4.7. Manuals, Drawings and Reports:

- The contractor must provide an electrical drawing of the complete system and manuals for the hoist, trolley and any other major components of the crane. The documents must be in English or French. Bilingual (English and French) documents are acceptable.
- The contractor must provide the Load Test and ~~Electrical Safety Authority~~[ESA /CSA](#) Examination Report.

### 5. Constraints:

- 5.1. All efforts must be made to minimize the downtime of the 10 tonne crane during the delivery, installation and commissioning phases of the 3 tonne bridge crane.

### 6. Client Support:

- 6.1. Innovation, Science and Economic Development Canada will ensure the site and surrounding work area is clean and available during scheduled delivery, installation and commissioning phases of the 3 tonne bridge crane.