



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Bid Receiving - PWGSC / Réception des soumissions -  
TPSGC

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, 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**

Vehicles & Industrial Products Division

140 O'Connor, Tower East

4th Floor

140 O'Connor, Tour Est

4ème étage

Ottawa

Ontario

K1A 0S5

<b>Title - Sujet</b> Heavy-Duty Truck and Crane	
<b>Solicitation No. - N° de l'invitation</b> U6318-218774/A	<b>Amendment No. - N° modif.</b> 007
<b>Client Reference No. - N° de référence du client</b> U6318-218774	<b>Date</b> 2020-03-09
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$\$HP-940-78344	
<b>File No. - N° de dossier</b> hp940.U6318-218774	<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 2020-03-13</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> Murray, David	<b>Buyer Id - Id de l'acheteur</b> hp940
<b>Telephone No. - N° de téléphone</b> (613) 296-9230 ( )	<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/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

This solicitation amendment 007 is raised to address bidders questions.

Question 1:

In Annex A: Specifications Point 65 4 stabilizing legs, so that they adjust automatically according to the unevenness of the ground.

Before deploying the crane, the operator must open these four stabilizers and make sure to level the truck as well as possible from the ground to perform his work, the crane can work on a slope of up to 3 degrees on a rotation of 420 degrees. But as stated in your description, it does not automatically adjust according to the unevenness of the ground, the maneuver must always be carried out manually by the operator if there is a change of position. Please specify.

There is however an (option) which would allow the operator to control the stabilizers from the radio remote control. The safety system does not allow the operator to retract the stabilizers when the crane is in operation with a load at the end.

Answer:

The deployment and adjustment of the legs is assisted and controlled by the operator. Please refer to the Annex A Specifications Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002); item 65.

Question 2:

The ball bearing you are talking about in point 76 is located where exactly on the crane, is it where the turret is sitting in the base of the crane?

Because if that's it, we only have a greasable Bushing and I want to know if it will be accepted? I have no choice the whole range of our cranes from the smallest to the largest are mounted with a Bushing and not a ball bearing.

Answer:

Please refer to the Annex A Specifications Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002); item 76.

Solicitation No. - N° de l'invitation  
U6318-218774/A

Amd. No. - N° de la modif.  
007

Buyer ID - Id de l'acheteur  
HP940

Client Ref. No. - N° de réf. du client  
U6318-218774

File No. - N° du dossier  
hp940.U6318-218774

CCC No./N° CCC - FMS No/ N° VME

---

At Annex A Specifications Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 001);

DELETE: Annex A Specifications Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 001);

INSERT: Annex A Specifications Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002).

---

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

## **Annex A Specifications**

### **Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)**

#### **Project Description**

Measurement Canada wishes to purchase a heavy-duty truck equipped with an articulated hydraulic crane for the transportation and handling of standard weights used in the inspection of large capacity scales. The vehicle will permanently carry twenty (20) standard weights of 500 kg (total of 10 000 kg) for Measurement Canada inspectors to use during large capacity scale inspections throughout eastern Canada (the Maritime Provinces and Quebec). It will have to travel on various types of roads (highways, secondary roads, steep roads and logging roads) to get to where the truck scales are installed/used. In addition, the vehicle will tow, year-long, a trailer weighing up to 20 000 kg. This assembly will be used by the inspectors in the enforcement of the *Weights and Measures Act*.

#### **Summary of Appendix 1 pictures**

- Picture of the current truck for reference only (**Appendix 1 picture 001**)
- Picture of the current truck and the trailer to be towed (**Appendix 1 picture 002**)
- Details of the trailer that the vehicle will have to tow (**Appendix 1 picture 003**)
- Picture of a standard weight of 500 kg as well as its dimensions (**Appendix 1 picture 004**)
- Picture of the present weight standards box and its cover (**Appendix 1 picture 005**)
- Pictures of existing storage boxes and hook hangers belonging to Measurement Canada, which will be reinstalled by Measurement Canada after taking possession of the truck (**Appendix 1 picture 006 and 007**)

#### **Technical Evaluation Criteria:**

To be considered compliant, bids must meet all the mandatory specifications of this request for proposals while taking into account the project description at the beginning of the document. Bidders must provide photos, brochures and / or technical documents, in order to clearly demonstrate that the units offered comply with the specifications described in the Truck Table and Crane Table of this request for proposal. Bidders must clearly indicate whether or not their proposal conforms to each specification below by entering an "X" in the appropriate neighbouring column of the truck table and crane table. They should submit a reference for each mandatory specification. Bids not meeting all of the Mandatory Specifications will be given no further consideration.

Please provide the following information for the vehicle you are offering:

Truck :

a) Make : \_\_\_\_\_ b) Model : \_\_\_\_\_ c) Year : \_\_\_\_\_

Crane :

a) Make : \_\_\_\_\_ b) Model : \_\_\_\_\_ c) Year : \_\_\_\_\_

## **Annex A Specifications**

### **Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)**

#### **Mandatory specifications of the truck to be met**

1. The selection of components and fixed accessories must be such that the total weight and axle weight (including the weight of the standards, equipment and trailer) comply with all applicable legislation, year-round (including during weight restriction periods) in the provinces of Quebec, New Brunswick, Nova Scotia and Prince Edward Island.
2. The truck must be designed with components robust enough to be capable of transporting an integrated articulated hydraulic crane and a minimum load of 12,000 kg (which include 10,000 kg of standard weights plus the weight of the storage box and accessories) and the trailer 100% of the time in often-adverse road and weather conditions.
3. The transmission, engine, differentials, wheels, tires, suspension, chassis, engine brake, must be selected accordingly to ensure long-term efficiency and durability.
4. The truck must be equipped with a platform (see platform section)
5. One (1) copy in French and One (1) copy in English of the vehicle maintenance and operation manuals must be provided, upon delivery of the vehicle.
6. The truck must be equipped with a 4-door cabin (see cabin section)
7. The truck must have an Amber beacon light mounted on the cab roof

#### **Engine and related equipment**

8. The truck must have four (4) high efficiency batteries connected in parallel

#### **Transmission and differentials**

9. The differential bridge ratios must be adequate to towing of a trailer of a total weight (including the standards) up to 20 000 kg, in addition to the vehicle's total loaded gross weight.
10. The differentials must be lockable from the operator station of the truck / dashboard
11. The PTO control must be activated from the vehicle dashboard.

#### **Axle and front suspension**

12. Capacity of the front suspension must be adequate for intended use.

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)

#### Axle and rear suspension

13. Capacity of the rear suspension must be adequate for intended use.

#### Chassis equipment

14. The truck must be equipped with front tow hooks
15. The truck must be equipped with a trailer brake controller and an appropriate towing package for a 20 000 kg trailer.
16. The truck must be equipped with an audible backup alarm

#### Wheels and tires

17. The truck spare tire and spare wheel must be full size and same dimensions as the other wheels of the vehicle, and compatible with the drive axles.

#### Truck Table

Mandatory Specifications requiring references				
Bidders must indicate their compliance with the following mandatory specifications.		Compliance		Supporting Reference
	Specifications	Met	Not Met	
18.	The truck must be a 2020 or subsequent year model			
<b>Engine and related equipment</b>				
19.	Diesel engine that complies with applicable provincial and federal regulations for carbon emissions			
20.	Minimum engine power rating of 500 hp			
21.	Minimum engine torque rating of 1800 lb-ft			
22.	Independent and programmable block heater, "Webasto" type or equivalent, to ensure reliable engine starts in cold weather			
<b>Transmission and differentials</b>				
23.	Compatible manual transmission having a minimum of eighteen (18) speed ranges adequate to towing of a trailer of a total weight (including the standards) of approximately 20 000 kg, in addition to the vehicle's total loaded gross weight.			
24.	Rear propulsion			
25.	The differentials must be lockable			
26.	The transmission must be suitable for the installation of a power take-off (PTO)			

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)

	<b>Axle and front suspension</b>			
27.	Pneumatic suspension.			
	<b>Axle and rear suspension</b>			
28.	Rear wheels must be arranged in two or three axle groups. Each of the axles must have fenders			
29.	Pneumatic suspension			
	<b>Braking system</b>			
30.	Air brakes at the wheels			
31.	Anti-lock braking system (ABS), on all wheels			
	<b>Chassis equipment</b>			
32.	The fuel tank of the truck must have a minimum capacity of 600 L.			
	<b>Wheels and tires</b>			
33.	Front wheels must be of equal or superior capacity than the axle to which they are mounted. The wheel rims must be made of aluminum.			
34.	Rear wheels must be of equal or superior capacity than the axles to which they are mounted. The wheel rims must be made of aluminum.			
	<b>Outside of the cabin</b>			
35.	The cabin of the vehicle must have four (4) doors offering storage space behind the operator seat, accessible from the exterior, of an approximate depth of 1.0 to 1.25 m for stowing various accessories (suitcase, equipment, etc.)—no bed/berth.			
36.	Convex mirrors on the hood			
37.	Electrically adjustable door mirrors			
38.	Heated door mirrors.			
39.	The passenger door of the vehicle must be equipped with a viewing window in the lower part of the door, allowing the operator to view ground area on the passenger side			
40.	Color of the vehicle: royal blue equivalent to Ford's "Blue Jean N1" color.			
	<b>Interior of the cabin</b>			
41.	Vehicle door windows must have electric controls on both sides			
42.	The vehicle must have a speed regulator (cruise control)			
43.	Driver and passenger seats must be equipped with head restraint and air suspension			
44.	Vehicle cab must be equipped with air conditioning			
45.	Vehicle cab must be equipped with heater and defroster			
46.	The vehicle must be equipped with telescopic tilt steering wheel			

## **Annex A Specifications**

### **Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)**

#### **Mandatory specifications of the platform to be met**

- 47. The platform must provide a 140" wide by 96" wide clear space between cab and crane to accommodate the box containing 500 kg weights and chests for storing different pieces of equipment. Not exceeding 156 inches of length.
- 48. The platform must be able to withstand, without deformations or excessive stresses, the load of standard weights and transported equipment
- 49. The platform must be equipped with a ladder and two handles, allowing easy / safe access to the cabin where the crane controls are located.
- 50. The platform and ladder components made of durable material, able to withstand prolonged exposure to road elements and harsh weather.
- 51. The platform must be made from lightweight and strong materials (steel) and adequately painted in black.

#### **Weight box required for the transport of twenty (20) 500 kg standard weights**

- 52. A box containing twenty (20) standard weights of 500 kg (standard weights are to be supplied by Measurement Canada) must be manufactured and permanently installed on the platform of the truck.  
**(See for reference Appendix 1 picture 004 of a standard weight of 500 kg as well as its dimensions)**  
**(See for reference only Appendix 1 picture 005, picture of the weight box of the current truck)**
- 53. The weight box should be constructed of strong and weather-resistant materials (steel).
- 54. The box must be capable of supporting and containing, without excessive deformation and stress, the standards weight at all times
- 55. The weight box must be provided with cutlery, with pneumatic opening and closing, to protect the standards from bad weather and road debris.
- 56. The signal control to open and close the weight box must be made from the crane cabin
- 57. The shape and angle of the cutlery should facilitate opening even when snow has accumulated on the cutlery
- 58. The shape and angle of the cutlery must allow the snow to be removed without falling on the standard weights during the opening.



## **Annex A Specifications**

### **Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)**

- 59. The dimensions of the box that will be installed on the truck to accommodate the 20 weights of 500 kg are 1.8 meter wide X 2.3 meter long and 1.1 meter high (at the highest covert point)
- 60. The inside of the box must be covered with ¼ inch Teflon, fixed to the walls, to facilitate the loading and unloading of standard weights.

### **Storage boxes and hook hangers provided and reinstalled by Measurement Canada**

- 61. The storage boxes and hook hangers identified in Appendix 1 (pictures 006 and 007) belonging to Measurement Canada will be reinstalled by Measurement Canada after taking possession of the truck.

### **Mandatory specifications of the crane to be met**

- 62. The crane must be located at the rear of the truck
- 63. The crane must be capable of supporting a weight of 2,500 kg in a safe manner, without causing deflection or structural deformation of equipment.
- 64. The crane must be equipped with an efficient cooling system for the hydraulic fluid (for difficult operating conditions);
- 65. The crane must be equipped with four (4) stabilizer legs (outriggers), appropriate for the load being handled, which are raised high enough during transportation so as not to interfere with travel on roads in normal conditions, e.g., railroad crossings; must also be provided with plates, under the four (4) stabilizing legs(outriggers).
- 66. The crane must be equipped with a cabin, from which the operator will carry out all handling operations via the controls of the crane.
- 67. The crane cabin must be equipped with heating and air conditioning systems that are independent from the vehicle's equipment
- 68. The crane must include means to clearly warn the user of any overload or instability that may cause a load to tip or a dangerous situation.
- 69. The crane must be equipped with a stability control system related to the stabilizer legs and the load being handled to prevent tipping the load.
- 70. The crane must have a means of preventing excessive deployment while handling the standard weights
- 71. The crane must be equipped with safety systems that prevent the vehicle from moving until the equipment and crane are in the safe position for travel.
- 72. One (1) copy in French and One (1) copy in English of the crane maintenance and operation manuals must be provided,

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)

73. One 7-hour hands on training in French on handling the crane and its safety systems is required for one person. The training will take place at 5000 rue Rideau, Quebec, Quebec, G2E 6B5.

#### Crane Table

Mandatory Specifications requiring references				
Bidders must indicate their compliance with the following mandatory specifications.		Compliance		Supporting Reference
	Specifications	Met	Not Met	
74.	The crane must have an adequate capacity to be capable of handling a 2,500 kg load in a 33-foot radius around the truck.			
75.	The crane must be capable of at least 360-degree rotation about its axis			
76.	The crane must be built on a ball bearing seating or bushing and ball bearing combination			
77.	The crane must be equipped with an automatic greasing system			
78.	The crane must be equipped with a hook rotator, enabling 360-degree rotation of the load suspended from the hook			
79.	The crane must be equipped with maintenance-free extensions			

## **Annex A Specifications**

### **Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)**

## **Appendix 1**

**Picture 001 :**

**Current truck**



**Picture 002**

**Current truck with the trailer to be towed**

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)



**Picture 003**

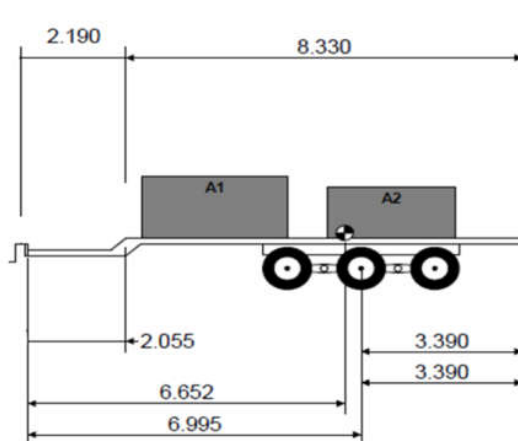
#### Details on the trailer that the vehicle will have to tow

(distances shown are in metres)

A1 and A2 are storage boxes containing equipment and weight standards.

Total weight of trailer and accessories: 20,000 kg

Weight on the hitch: approximately 1,500 kg



**Picture 004**

Dimensions of a 500 kg standard weight (dimensions in inches: 17 ¼ x 17 ¼ x 18 ½ high)

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)



Picture 005

Picture of the present weight standards box and its cover.



Photo of the present  
standard weight box with  
its cover

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)

#### Picture 006 and 007:

Existing storage boxes and hook hanger belonging to Measurement Canada, which will be reinstalled by Measurement Canada after taking possession of the truck

#### Picture 006



Hook hangers that will be reinstalled by Measurement Canada.

#### Picture 007

Existing storage box which will be transferred to the new truck by Measurement Canada  
24 inches wide x 24 inches high x 95 inches long

## Annex A Specifications

### Heavy-Duty Truck Equipped with an Articulated Hydraulic Crane (revision 002)



An existing storage box with two doors that will be transferred to the new truck by Measurement Canada

76 inches wide x 19 inches high x 12 inches deep