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Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**Revision to a Request for Supply
Arrangement - Révision à une demande
pour un arrangement en matière
d'approvisionnement**

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
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

Title - Sujet RFSA - PINTLE TRAILERS	
Solicitation No. - N° de l'invitation E60HP-17TRLR/A	Date 2017-03-01
Client Reference No. - N° de référence du client E60HP-17TRLR	Amendment No. - N° modif. 001
File No. - N° de dossier hp923.E60HP-17TRLR	CCC No./N° CCC - FMS No./N° VME
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-923-72377	
Date of Original Request for Supply Arrangement 2017-02-02 Date de demande pour un arrangement en matière d'app. originale	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-03-15	
Address Enquiries to: - Adresser toutes questions à: Martin, Erik	Buyer Id - Id de l'acheteur hp923
Telephone No. - N° de téléphone (873) 469-3318 ()	FAX No. - N° de FAX () -
Delivery Required - Livraison exigée	
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	
Security - Sécurité This revision does not change the security requirements of the solicitation. Cette révision ne change pas les besoins en matière de sécurité de l'invitation.	

Instructions: See Herein

Instructions: Voir aux présentes

Acknowledgement copy required	Yes - Oui	No - Non
Accusé de réception requis	<input type="checkbox"/>	<input type="checkbox"/>
The Offeror hereby acknowledges this revision to its Offer. Le proposant constate, par la présente, cette révision à son offre.		
Signature	Date	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
For the Minister - Pour le Ministre		

THIS AMENDMENT **001** IS ISSUED TO MODIFY THE RFSA AS FOLLOWS:

- 1- Post Questions and Answers #1 to 12; and
- 2- Post the revised Annex “A” – Purchase Description – Pintle Trailer – Dated 2017-02-28.

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

RFSA #E60HP-17TRLR/A
Pintle Trailers - Questions & Answers

Q #	Questions	Answers	Modify Specs?
1	Are technical drawings required at the time of bid?	Sufficient proof of compliance is required with the bid to demonstrate the GVWR and dimensions for each configuration/sub-configuration that is being offered. This must be an official document such as a brochure or other technical document in accordance with the “Proof of Compliance” definition of the Technical Information Questionnaire. Engineering Drawings as defined in paragraph 4.1.1 (b) of the purchase description are not required at time of bid, but will be required when a contract, in response to a Request for Proposal (RFP), is awarded.	NO.
2	Certifications. Are Transport Canada Certifications required with the bid?	No. Suppliers must submit only the certifications and additional information required under Part 5 of the RFSA.	NO.
3	May the suppliers provide a previous Federal Government contract number as proof of compliance to demonstrate the manufacturer has been producing the type and weight class for at least 5 years?	A previous Federal Government contract, at least 5 years old, will be sufficient proof of compliance. However, suppliers must provide a copy of the contract, since archived contracts may not be readily available to the project team.	NO.
4	Are manuals required to be submitted at time of bid?	No, manuals are not required until after a contract is awarded.	NO.
5	It was noted that electric brakes are not common for configuration OW-D with a GVWR of 18,125 – 22,700 kgs.	Agreed. The option for electric brakes for configuration OW-D has been removed from the Purchase	YES

		Description.	
6	Does the generator have to supply power direct to the winch or is the generator used to charge a battery.	It is expected that the winch is powered by a battery, which is charged by the generator.	NO.
7	It would seem useful for bidders to provide documentation on all of the features and accessories, including those not requiring proof of compliance at time of bid.	Documentation on features and accessories not requiring proof of compliance are not required at time of bid. During the post award of supply arrangement meeting the Technical Authority will confirm that the supplier understands all of the mandatory requirements and will likely ask for additional documentation at that time.	NO.
8	It was commented that it is difficult to obtain paper copies of manuals from the trailer component original equipment manufacturers.	It is appreciated that within the trailer industry it is sometimes a challenge to obtain and assemble documents together to produce coherent manuals. Regardless, both digital and paper manuals will remain deliverables, when asked for in a contract. Combining operator instructions, technical instructions and parts manuals into a combined publication is permissible.	NO.
9	When it shows "GVWR Minimum and GVWR Maximum", means that on each configuration, will supply one GVWR trailer that has a GVWR lies in the range between GVWR Minimum and GVWR Maximum and NOT two Pintle trailers GVWRs' one at GVWR Minimum and 2 nd at GVWR Maximum. Please confirm?	For each <u>sub-configuration</u> , one trailer is to be supplied in the range between GVWR Minimum and GVWR Maximum.	NO.
10	I understand that our response to this RFSA is "we should supply technical documentation only to show how we will offer/manufacturer/deliver each configuration only and at this time, there is no pricing required?" Please correct me if I am wrong.	No pricing is required at this time.	NO.
11	I do not think we should fill the "Annex B – Quarterly Status Report" as part of the response to the RFSA at this time. Please correct me if I am wrong.	You do not need to fill and submit the Annex "B" at this time.	NO.

12	For the “Annex “C” – RFP Template” is this only for future tendering of some of the configuration of Pintle Trailers and we do not have to do anything with it in our response to the RFSA? Please correct me if I am wrong.	Yes. This is the Template that will be used in the future to request pricing from compliant bidders.	NO.
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NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'Autorité technique et ne contient pas de marchandises contrôlées.

ANNEX "A"
PURCHASE DESCRIPTION
PINTLE TRAILER

1. SCOPE

1.1 **Scope** - This Purchase Description covers the requirements for pintle trailers.

1.2 **Instructions**

- (a) Requirements, which are identified by the word "**must**", **must** be treated as mandatory. Deviations will not be permitted;
- (b) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (c) Where "**must**" or "will" are not used, the information provided is for guidance only;
- (d) Where a standard is specified and the Contractor has offered an **Equivalent**, that **Equivalent** standard **must** be supplied by the Contractor;
- (e) Where a technical certification is referred to in this Purchase Description, a copy of the certification or an acceptable Proof of Compliance **must** be supplied, when requested by the **Technical Authority**;
- (f) While the International System of Units (SI) **must** be used as the primary system of measurement to define requirements of this Purchase Description, both the SI system and the standard system for this product may be indicated. Conversion from one system of measurement to the other may not be exact; and
- (g) Dimensions stated as nominal **must** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 **Definitions**

- (a) "**Provided**" means "provided and installed";
- (b) "**Technical Authority**" **must** mean the official responsible for the technical content of this requirement;
- (c) "**Equivalent**" means a standard, means, or component type, which the **Technical Authority** has approved for this requirement as meeting the specified requirements for fit, form, function and performance;

OPI: DSVPM 4 - BPR: DAPVS 4

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense

- (d) "**Commercially Equipped**" means that the vehicle/trailer is provided in its standard commercial configuration with no additional government-specified requirements;
- (e) "**Bilingual**" means in both official languages; English and French;
- (f) "**Road legal**" means the vehicle/trailer can be legally operated on all Canadian highways and secondary roads, without restrictions or special permits;
- (g) "**Payload**" means the maximum cargo load carrying capacity of the vehicle/trailer;
- (h) "**Gross Vehicle Weight Rating**" (GVWR) means manufacturer-specified recommended maximum weight of a vehicle/trailer when fully loaded; and
- (i) "**Gross Axle Weight Rating**" (GAWR) means the gross axle weight rating, which is the maximum axle load allowed by the manufacturer for this application.

1.4 **Data Table** - The following table shows required performance and dimensions for each configuration.

CHARACTERISTIC	PARAGRAPH	UNITS	CONFIGURATION											
			BW-A	BW-B	BW-C	OW-A	OW-B	OW-C	OW-D	OW-E				
GVWR MINIMUM	3.4 (a)	kg	4,500	7,200	9,050	4,500	7,200	9,050	18,125	27,200				
GVWR MAXIMUM	3.4 (b)	kg	5,650	9,000	11,500	5,650	9,000	11,500	22,700	34,000				
DECK WIDTH	3.4.2 (a)	mm	1,975	1,975	1,975	2,565	2,565	2,565	2,565	2,565				
DECK LENGTH - FLAT	3.4.2 (b)	mm	4,850	4,850	4,850	6,050	6,050	6,050	6,050	6,050				
DECK LENGTH WITH BEAVERTAIL	3.4.2 (c)	mm	5,600	5,600	5,600	7,300	7,300	7,300	7,300	7,300				
DECK TYPE BETWEEN THE WHEELS	3.4.2 (d) i	-	X	X	X									
DECK TYPE OVER THE WHEELS	3.4.2 (d) ii	-				X	X	X	X	X				

1.4.2 **Features and Accessories Table.** The following table indicates, with an "X" and by configuration, the features and accessories that **must** be provided upon request in the contract, with reference to the applicable paragraph number.

DESCRIPTION	PARAGRAPH	CONFIGURATION											
		BW-A	BW-B	BW-C	OW-A	OW-B	OW-C	OW-D	OW-E				
LUNETTE MOUNTING PLATE, 400-700 mm	3.14 (a) (iii) (1)	X	X	X	X	X	X	X					
LUNETTE MOUNTING PLATE, 600-900 mm	3.14 (a) (iii) (2)											X	X
BALL COUPLER (IN ADDITION TO LUNETTE)	3.14 (b)	X	X	X	X	X	X	X					
RATCHET STRAPS (FLAT DECK ONLY)	3.14 (c)								X	X	X	X	X
STANDARD LANDING GEAR	3.14 (d)	X	X	X	X	X	X	X					
DUAL SPEED LANDING GEAR WITH SPREADER PLATE	3.14 (e)										X	X	X
HUBOMETER	3.14 (f)										X	X	X
LOOSE WHEEL NUT INDICATORS	3.14 (g)										X	X	X
CONTAINER LOCKS (FLAT DECK ONLY)	3.14 (h)										X	X	X
REMOVABLE SIDE BOARDS (FLAT DECK ONLY)	3.14 (i)										X	X	X
WINCH WITH GENERATOR (BEAVERTAIL ONLY)	3.14 (j)				X	X	X	X			X	X	X
ELECTRIC BRAKES	3.14 (k) (i)	X	X	X	X	X	X	X					
AIR BRAKES	3.14 (k) (ii)										X	X	X
PAINT FINISH	3.14 (l) (i)											X	X
GALVANIZED FINISH WITH GALVANIZED OR ALUMINUM WHEELS	3.14 (l) (ii)	X	X	X	X	X	X	X			X	X	X
PAPER MAINTENANCE MANUAL - ENGLISH	4.1.3 (a)	X	X	X	X	X	X	X	X	X	X	X	X
PAPER MAINTENANCE MANUAL - FRENCH	4.1.3 (b)	X	X	X	X	X	X	X	X	X	X	X	X
DIGITAL MAINTENANCE MANUAL - ENGLISH	4.1.3 (c)	X	X	X	X	X	X	X	X	X	X	X	X
DIGITAL MAINTENANCE MANUAL - FRENCH	4.1.3 (d)	X	X	X	X	X	X	X	X	X	X	X	X
PAPER PARTS MANUAL	4.1.3 (e)	X	X	X	X	X	X	X	X	X	X	X	X
DIGITAL PARTS MANUAL	4.1.3 (f)	X	X	X	X	X	X	X	X	X	X	X	X

2. **APPLICABLE DOCUMENTS** - Canada will not be supplying any reference documents. Effective documents are those in effect on the date of the manufacture of the trailer. Information on the organization is supplied below.

- (a) Hazardous Products Act
Government of Canada / Department of Justice
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>
- (b) International Organization for Standardization (ISO)
ISO Central Secretariat
1, ch. de la Voie-Creuse
CP 56, CH-1211 Geneva 20
Switzerland
<http://www.iso.org/iso/home.htm>
- (c) SAE Standards
SAE World Headquarters
400 Commonwealth Dr.,
Warrendale, PA, 15096-0001
<http://www.sae.org>
- (d) Canada Motor Vehicle Safety Act (CMVSA)
Government of Canada / Transport Canada
<http://www.tc.gc.ca/eng/acts-regulations/acts-1993c16.htm>

3. **REQUIREMENTS**

3.1 **Standard Design**

- (a) The trailer **must** be the latest model from a manufacturer who has demonstrated acceptability by selling, in North America, this type and size of trailer for at least five (5) years;
- (b) The trailer/equipment **must** include all components, equipment and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- (c) The trailer/equipment **must** have engineering certification available, upon request for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The trailer/equipment **must** conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture; and
- (e) The trailer **must** not have systems and components operating at capacities beyond those published by the system or component manufacturer.

3.2 **Operating Conditions**

3.2.1 **Weather** - The trailer **must** operate under weather conditions found in Canada in temperatures ranging from -40 to 40°C.

3.2.2 **Terrain** - The trailer **must** operate in all-weather conditions on highways, secondary roads, gravel roads, and off-road (e.g. construction sites, open fields and dirt tracks).

3.3 **Safety Standards**

3.3.1 **Vehicle Safety Regulations** - The trailer **must** meet the provisions of the Canada Motor Vehicle Safety Act.

3.3.2 **Hazardous Materials** - The contractor **must** comply with the Hazardous Products Act of Canada with regards to the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals used in the manufacture and assembly of the product supplied.

3.4 **Performance**

- (a) The trailer **must** have a Gross Vehicle Weight Rating (GVWR) of at least that given as "GVWR MINIMUM" in the Data Table (paragraph 1.4);
- (b) The trailer **must** not have a Gross Vehicle Weight Rating (GVWR) greater than that given as "GVWR MAXIMUM" in the Data Table (paragraph 1.4);
- (c) The trailer **must** operate with a payload weight of at least 70 % of the "GVWR MINIMUM" in the Data Table (paragraph 1.4);
- (d) The trailer **must** carry a full load on highways and secondary roads at speeds of up to at least 110 km/h;
- (e) The trailer **must** carry a full load on gravel roads at speeds of up to at least 40 km/h; and
- (f) The trailer **must** carry a full load cross-country at speeds of up to at least 10 km/h.

3.4.1 **Towing Ability**

- (a) The trailer **must** follow the towing vehicle without weaving or side sway; and
- (b) The trailer **must** have a horizontal articulation up to 60 degrees without interference with the towing vehicle.

3.4.2 **Deck Dimensions and Type**

- (a) The trailer **must** have a deck width of at least that given as "DECK WIDTH" in the Data Table (paragraph 1.4);
- (b) The trailer **must** have a flat deck length of at least that given as "DECK LENGTH - FLAT" in the Data Table (paragraph 1.4);
- (c) The trailer **must** have a total deck length, when a beavertail is requested, of at least that given as "DECK LENGTH WITH BEAVERTAIL" in the Data Table (paragraph 1.4); and

(d) **Deck Type**

- i When "X" is indicated for "DECK TYPE BETWEEN THE WHEELS", in the Data Table (paragraph 1.4), the trailer **must** be provided with a between the wheels equipment hauler deck configuration; and
- ii When "X" is indicated for "DECK TYPE OVER THE WHEELS", in the Data Table (paragraph 1.4), the trailer **must** be provided with an over the wheels deck configuration.

3.5 **Equipment**

- (a) **Drawbar** - The trailer **must** be provided with a drawbar built to carry at least 30 per cent of GVWR.

(b) **Lunette**

- i The trailer **must** be provided with a fixed (non- rotating) lunette; and
- ii The lunette **must** have a nominal inside diameter 76 mm in accordance with *SAE J847 Trailer Tow Bar Eye and Pintle Hook/coupler Performance*.

(c) **Safety Chains**

- i The trailer **must** be provided with two (2) safety chains with snap hooks; and
- ii The safety chains **must** be built in accordance with *SAE J697 Safety Chain of Full Trailers or Converted Dollies*.

(d) **D-rings and Tie-downs**

- i The trailer deck **must** be provided with at least eight (8) deck mounted D-rings;
- ii The trailer D-rings **must** be positioned along both sides of the deck and interior of the removable side boards (when side boards are requested) so that they can be used when the side boards are mounted;
- iii The D-rings **must** be mounted flush with the trailer deck;
- iv The D-rings **must** not interfere with other loading operations when not in use; and
- v The trailer deck **must** be provided with at least eight (8) frame mounted tie downs.

(e) **Trailer Decking** - The trailer deck **must** be provided with a dimensionally stable hardwood deck surface, such as ship-lapped keruing or **Equivalent**.

(f) **License Plate Holder**

- i The trailer **must** be provided with a rear license plate holder; and
- ii The rear license plate **must** be illuminated with LED lights.

(g) **Stowage Box**

- i A stowage box **must** be provided;
- ii The stowage box **must** be mounted forward of the trailer deck;
- iii The stowage box **must** have an internal volume of at least 0.1 cubic meters;
- iv The stowage box **must** have a hinged and sealed cover and a hasp for a padlock;
- v The hinges and hasp **must** be stainless steel; and
- vi The stowage box **must** be self-draining, with a means of preventing water from entering through the drain opening.

(h) **Manual Storage Box**

- i The trailer **must** be provided with a sealed weatherproof box exclusively for the storage of the trailer operator manual;
- ii The size of the manual storage box **must** allow a paper copy of the trailer operator manual to fit flat or rolled; and
- iii It is acceptable that the manual storage box be mounted in the trailer stowage box.

(i) **Tools**

- i The trailer **must** be supplied with a lug wrench to remove wheel nuts; and
- ii The lug wrench **must** be stored in the trailer stowage box.

3.6 **Axles** - The trailer axles **must** have a capacity of at least the maximum payload plus the trailer weight.

3.7 **Wheels and Tires**

- (a) The trailer **must** be provided with steel-belted, tubeless radial tires;
- (b) All wheels **must** be provided with tires with a mud and snow tread; and
- (c) The wheel assemblies **must** have a capacity equal or greater than the load applied, at the top trailer speed (paragraph 3.4).

3.7.1 **Spare Wheel Assembly with Storage**

- (a) The trailer **must** be provided with a spare wheel assembly;
- (b) The trailer **must** be provided with a dedicated storage location for the spare wheel assembly; and
- (c) The spare wheel assembly **must** not be mounted on the trailer deck.

3.8 **Electrical System**

- (a) The trailer **must** operate with a towing vehicle having a 12-volt negative ground electrical system;
- (b) The electrical system **must** be provided with a positive engaging, 7-pin trailer receptacle;
- (c) The towing vehicle will provide all power and control for the trailer lighting;
- (d) The trailer **must** have the wiring protected by design and positioning to prevent damage from and contact with spilled hydrocarbon fuels;
- (e) Wiring **must** be protected by grommets when passing through metal; and
- (f) The wiring **must** be protected woven fabric looms which are waterproof. Split hose looms will not be accepted.

3.9 **Lighting**

- (a) The trailer **must** have lights and reflectors in accordance with CMVSA;

- (b) The lights **must** be recessed or otherwise protected from damage with all components easily accessible for servicing;
- (c) All trailer lighting **must** be LED; and
- (d) Lights **must** be rubber mount sealed LED lights.

3.10 **Lubricants and Hydraulic Fluids**

- (a) The trailer **must** operate using synthetic non-proprietary lubricants; and
- (b) Grease fittings on the trailer **must** conform to *SAE J534 Lubrication Fittings*.

3.11 **Identification**

- (a) The trailer information **must** be permanently marked in a conspicuous and protected location;
- (b) The information **must** include the manufacturer's name, and model;
- (c) GAWR and GVWR ratings **must** be provided; and
- (d) The maximum payload capacity **must** be provided on the identification plate.

3.12 **Trailer Delivery Condition**

- (a) The trailer **must** be delivered to destination in a fully operational condition (serviced and adjusted);
- (b) The trailer **must** be cleaned before being shipped; and
- (c) Lubricant viscosity provided **must** be in accordance with the manufacturer's specifications for the destination and the season of delivery.

3.13 **Design Characteristics** - Sub-configurations are defined by the combination of select design characteristics as contained in table 1.4.1. The following design characteristics **must** be provided when applicable to a sub-configuration as per table 1.4.1.

(a) **Not Used**

(b) **Tilt Deck**

- i The trailer **must** be provided with a tilt deck;
- ii The tilt deck **must** be provided with a locking mechanism to secure the deck in the travel position. An automatic locking mechanism is preferred; and
- iii Pins for pin-type tilt deck locking mechanisms **must** be held on trailer by a short chain or captive.

(c) **Power Tilt Deck**

- i The trailer deck **must** be provided with a power actuated tilt deck;
- ii The tilt deck **must** be provided with a locking mechanism to secure the deck in the travel position. An automatic locking mechanism is preferred;
- iii Pins for pin-type tilt deck locking mechanisms **must** be held on trailer by a short chain or captive;

- iv Air Brakes equipped trailers must be provided with air actuated power tilt deck using air from the brake system; and
- v Electric brakes equipped trailer must be provided with hydraulic actuated power tilt deck.

(d) **Beavertail** - The trailer **must** be provided with a beavertail.

(e) **Ramps**

- i Manufacturer's ramps or single ramp, with a secure travel lock provision **must** be provided;
- ii The upper surface of the ramps **must** permit loading of smooth tired vehicles;
- iii The ramps **must** be a see-through design;

(f) **Powered Self-Deploying Ramps**

- i Ramps provided **must** be powered self-deploying ramps; and
- ii Ramps **must** be actuated using air from the brake system.

3.14 **Features and Accessories** - The following features and accessories, when required, will be requested in the individual bid solicitation in accordance with the Features and Accessories Table (Paragraph 1.4.2).

(a) **Lunette Mounting Plate**

- i The trailer **must** be provided with a lunette mounting plate;
- ii The lunette mounting plate **must** be provided with adjustable heights at increments of no greater than 50 mm; and
- iii **Lunette Mounting Heights**
 1. The lunette mounting plate **must** allow the lunette to be mounted with nominal heights from 400 to 700 mm above ground level; or
 2. The lunette mounting plate **must** allow the lunette to be mounted with nominal heights from 600 to 900 mm above ground level.

(b) **Ball Coupler**

- i The trailer **must** be provided with a ball coupler, in addition to the lunette;
- ii The ball coupler **must** accommodate a 2 ½ inch (63.5 mm) ball; and
- iii The ball coupler **must** mount on the lunette mounting plate.

(c) **Ratchet Straps**

- i The trailer **must** be provided with four (4) sets of nominal 9,140 mm long and 75 mm wide cargo strap assemblies complete with winches and slip hooks;
- ii The strap assemblies **must** be mounted at four (4) locations on the left hand side of the trailer such that operation of the trailer is not impaired and ground clearance is not diminished; and

iii The strap assemblies **must** have a load capacity of at least 4,525 kg.

(d) **Standard Landing Gear**

- i The trailer **must** be provided with landing gear having a positively locked travel position;
- ii The landing gear **must** lift a fully loaded trailer at least 200 mm from horizontal; and
- iii The landing gear **must** have a stored ground clearance of at least 450 mm.

(e) **Dual speed Landing Gear**

- i The trailer **must** be provided with a dual speed landing gear having a positively locked travel position;
- ii The dual speed landing gear **must** lift a fully loaded trailer at least 200 mm from horizontal; and
- iii The dual speed landing gear **must** have a stored ground clearance of at least 450 mm.
- iv **Load Spreader Plate**
 - 1. The dual speed landing gear **must** be provided with a load spreader plate;
 - 2. The load spreader plate **must** be at least 500 mm x 500 mm and at least 50 mm thick;
 - 3. The load spreader plate **must** be made of pressure treated wood or an **Equivalent**;
 - 4. The load spreader plate **must** have rope handle; and
 - 5. The load spreader plate **must** have a storage location on the trailer.

(f) **Hubometer**

- i The trailer **must** be provided with a hubometer installed on the curb side of one (1) of the axles; and
- ii The hubometer **must** be in kilometers.

(g) **Loose Wheel Nut Indicators** - Loose wheel nut indicators **must** be provided at each wheel station.

(h) **Container Locks**

- i The trailer **must** be provided with eight (8) retractable ISO lock container locks positioned to accept a loaded 20 foot ISO container (Class 1C in accordance with ISO 668) or two (2) 10 foot containers (Class 1D in accordance with ISO 668);
- ii The ISO container locks **must** be mounted flush with the trailer deck;
- iii The ISO container locks **must** not interfere with other loading operations when not in use; and
- iv The preferred ISO container locks are Jost Model R 416 VAK.

- (i) **Removable Side Boards**
- i The trailer **must** be provided with removable side boards;
 - ii The removable side boards **must** have a height above the trailer deck, when installed, of at least 605 mm;
 - iii The removable side boards **must** have metal posts;
 - iv The removable side boards **must** have rails that are fabricated from metal or composite material; and
 - v The side rails **must** be separated from the rail above or below and the deck with spaces of at least 50 mm.
- (j) **Winch with Generator**
- i The trailer **must** be provided with an electrically powered winch;
 - ii The winch **must** pull from the front of the trailer deck;
 - iii The winch **must** have a bare drum pull of at least 35 percent of the maximum payload weight;
 - iv The winch **must** have at least 30.5 meters of cable, which has been pre-strained to remove elasticity;
 - v The winch **must** be accompanied with a pulley and chain assembly to allow a doubled cable;
 - vi The winch **must** be provided with either a wireless or wired remote control;
 - vii Wired remote controls **must** be provided with a cable length of at least 6,000 mm;
 - viii The contractor **must** provide a generator that supplies the power to the winch; and
 - ix The generator **must** be permanently installed on the A-frame of the trailer.
- (k) **Brake System** - The required brake system will be specified in the contract.
- i **Electric Brake System**
 - 1. The trailer **must** be provided with electric brakes;
 - 2. The brakes **must** be connected to power from the towing vehicle through the trailer receptacle; and
 - 3. The brake system **must** be provided with breakaway safety system equipped with a coiled breakaway cable.
 - ii **Air Brake System**
 - 1. The trailer **must** be provided with an air anti-lock braking system (ABS);
 - 2. The brake system **must** be provided with colour coded glad hand coupler offset to the roadside, with dummy glad hand couplers equipped with a safety chain provided for each glad hand;
 - 3. The trailer's tractor-to-trailer lines **must** be constructed of coiling lines; and

4. The air tank drain valve **must** be accessible from beside the trailer;

(1) **Paint and Finish** - The paint and finish will be specified in the contract.

i **Paint Finish**

1. The trailer frame **must** be provided with a powder coat painted finish or **equivalent** durability; and

2. The paint colour **must** be black.

ii **Galvanized Finish**

1. In lieu of a painted finish, the trailer frame **must** be provided with a galvanized finish; and

2. The galvanized finish trailer **must** be provided with galvanized finish or aluminum wheels.

4. **Integrated Logistic Support**

4.1 **Contractor Documentation and Logistic Items**

4.1.1 **Documents to Technical Authority (Designated Contact) on Contract**

(a) **Manuals for Approval (DND Only)**

i The Contractor **must** supply a set of manuals for each Configuration/model, in digital format , including the operator, parts and maintenance (shop repair) manuals;

ii The set of manuals **must** include manuals for all the specified accessories and features for the configuration/model. Accessory manuals may be included as supplements to the trailer/equipment manuals;

iii Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection;

iv Digital copies **must** be supplied on a CD or DVD;

v Digital copies **must** be supplied in a searchable PDF format;

vi A separate CD/DVD **must** be supplied for each Configuration/ Make/ Model with all accessories;

vii The CD or DVD **must** be permanently and legibly marked with a list of contents;

viii Manuals will not be returned;

ix Manual approval, request for additional documentation or request for amendments will be supplied within 15 working days of receipt;

x The Contractor **must** supply the additional documentation or implement the changes as requested by the **Technical Authority**; and

xi Paper copies of manuals delivered under this contract **must** have the same content as the electronic format approved by the **Technical Authority**.

(b) **Engineering Drawing (DND Only)**

- i The contractor **must** provide a top level engineering drawing of the trailer;
- ii The engineering drawing **must** have right side, top and front views with overall dimensions; and
- iii The information block of the engineering drawing **must** have the original equipment manufacturer name, the original equipment manufacturer model or part number and the weight of the trailer.

(c) **Photographs and Line Drawings (DND Only)**

- i The Contractor **must** supply two (2) digital colour photographs, one (1) left-front three-quarter view, and one (1) right-rear three-quarter view of each configuration/model;
- ii One (1) digital colour photograph of each attachment taken at the three-quarter view that best illustrates the attachment **must** be supplied;
- iii One (1) front-view and one (1) side-view line drawing showing dimensions of the vehicle/equipment **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** have a plain background;
- v Photographs **must** be in a JPEG (Joint Photographic Experts Group) format; and
- vi Photographs **must** have a resolution of at least eight (8) Mega pixels.

(d) **Data Summary (DND Only)**

- i The Contractor **must** supply a bilingual data summary for each Configuration/model, with trailer data (including accessories and features) and a trailer picture, for each DND contract;
- ii The **Technical Authority** will supply a bilingual template of a data summary to the Contractor;
- iii The Contractor **must** supply a digital copy (MS Word) of the completed data summary for approval;
- iv Data summary approval or request for amendments will be supplied within 15 working days of receipt; and
- v The Contractor **must** implement the changes requested by the **Technical Authority**.

(e) **Warranty Letter (All Users)**

- i The **Technical Authority** will supply a bilingual warranty letter template to the Contractor;
- ii The Contractor **must** supply a complete description of the warranty with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested;
- iii The warranty letter **must** include the name and contact information of the closest designated warranty provider

and other designated warranty providers across Canada;
and

- iv The Contractor **must** supply a copy of the warranty letter, in PDF digital format, for each trailer delivered, to the **Technical Authority** or the designated contact for non-DND users.

(f) **Safety Data Sheets (All Users)**

- i The Contractor **must** supply a list, in digital format, of all hazardous materials used on the vehicle/equipment;
- ii If there are no hazardous materials used, this **must** be stated on the listing; and
- iii The Contractor **must** supply, in digital PDF format, safety data sheets for all hazardous materials in the list.

4.1.2 **Items Supplied with Each Trailer**

- (a) **Operator's Manuals** - The Contractor **must** supply an approved bilingual operator's manual in both paper and digital PDF format on a CD or DVD with each trailer delivered;
- (b) **Warranty Letter** - The Contractor **must** supply a paper copy of the warranty letter with each trailer delivered;
- (c) **Safety Data Sheets**
 - i The Contractor **must** supply a set of material safety data sheets; and
 - ii The material safety data sheets **must** be the same as those provided to the **Technical Authority** as per paragraph 4.1.1 (f).

4.1.3 **Additional Items** (when specified in the individual bid solicitation)

- (a) **Paper Maintenance Manual - English**
 - i The Contractor **must** supply the **Technical Authority** approved maintenance (shop repair) manuals in paper format and in English required for the maintenance and repair of the trailer, features and accessories; and
 - ii The contractor may supply this deliverable as a bilingual package.
- (b) **Paper Maintenance Manual - French**
 - i The Contractor **must** supply the **Technical Authority** approved maintenance (shop repair) manuals in paper format and in French required for the maintenance and repair of the trailer, features and accessories; and
 - ii The contractor may supply this deliverable as a bilingual package.
- (c) **Digital Maintenance Manual - English**
 - i The Contractor **must** supply the **Technical Authority** approved searchable PDF digital maintenance (shop repair) manuals in English required for maintenance and repair of the trailer, features and accessories;
 - ii The contractor may supply this deliverable as a bilingual package;

- iii Digital copies **must** be supplied on a CD or a DVD; and
 - iv Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- (d) **Digital Maintenance Manual - French**
- i The Contractor **must** supply the **Technical Authority** approved searchable PDF digital maintenance (shop repair) manuals in French required for maintenance and repair of the trailer features and accessories;
 - ii The contractor may supply this deliverable as a bilingual package;
 - iii Digital copies **must** be supplied on a CD or a DVD; and
 - iv Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.
- (e) **Paper Parts Manual**
- i The Contractor **must** supply the **Technical Authority** approved parts manuals for the trailer, features and accessories;
 - ii The parts manual **must** be in English; and
 - iii It is desirable to supply the parts manual in French in addition to the English version.
- (f) **Digital Parts Manual**
- i The Contractor **must** supply the **Technical Authority** approved searchable PDF digital parts manuals required for the trailer, features and accessories; and
 - ii It is desirable to provide the parts manual in French in addition to the English version;
 - iii Digital copies **must** be supplied on a CD or a DVD; and
 - iv Digital copies **must** be functional without the requirement for a password, an auto-run installation procedure or an Internet connection.