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**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**

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

**7A2, Place du Portage, Phase III**

**Gatineau, Québec K1A 0S5**

<b>Title - Sujet</b> School bus, 44 passengers	
<b>Solicitation No. - N° de l'invitation</b> W8476-195927/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> W8476-195927	<b>Date</b> 2018-07-20
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HP-923-75039	
<b>File No. - N° de dossier</b> hp404.W8476-195927	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-08-07</b>	<b>Time Zone</b> Fuseau horaire Eastern Daylight Saving Time EDT
<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> Michele Mak	<b>Buyer Id - Id de l'acheteur</b> hp404
<b>Telephone No. - N° de téléphone</b> (873) 469-3318 ( )	<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 (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>

This Solicitation Amendment 002 is raised to answer the bidders' questions.

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3.6.2 Suspension (e):

Q1. The vehicle must be provided with a no spin differential.

Canada is adapting the regulation of stability control. With this, standard traction control is included. Will this be acceptable?

A1. A limited slip differential will be accepted.

Annex B: 3.6.2 (e) has been amended to read: The vehicle **must** be provided with limited slip differential.

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3.5 **Standard Vehicle** (f)(i) Driver's Seat:

The vehicle must be provided with a six way high back medium to dark coloured upholstered driver seat with lumbar support.

Q2. Our seat is 4 way (for-aft and adjustment up & down) it is air suspended. Will this be acceptable?

A2. The driver seat must be air suspended with the following features: fore/aft slide adjustment, up & down adjustment, and seat-back angle adjustment (reclined forward & backward)

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3.5 **Standard Vehicle** (l)(iii) Radio and Speakers:

Q3. An AM/FM CD with PA system & 8 speakers will be installed. A fader control is not available. Will this be acceptable?

A3. Yes it's acceptable

Annex B: 3.5 (l) iii has been amended to read: The radio **must** be equipped with a volume control for the speakers in the passenger area.

Solicitation No. - N° de l'invitation  
W8476-195927/A

Amd. No. - N° de la modif.  
002

Buyer ID - Id de l'acheteur  
hp923

Client Ref. No. - N° de réf. du client  
W8476-195927

File No. - N° du dossier  
HP923 W8476-195927

CCC No./N° CCC - FMS No/ N° VME

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Amendment 002 is raised to change the solicitation closing date:

Delete the closing date of August 3, 2018 (Eastern Daylight Savings Time) in its entirety.

Insert new closing date of August 7, 2018. @ 2:00 PM (Eastern Daylight Savings Time).

**ALL OTHER TERMS AND CONDITIONS OF THIS SOLICITATION REMAIN UNCHANGED.**



**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 "B"**

**PURCHASE DESCRIPTION**

**FOR**

**SCHOOL BUS**

**1. SCOPE**

1.1 **Scope** - This purchase description describes the requirements for a 44 passenger conventional school bus. The bus will be used to transport up to 44-adult passengers distances up to 200 kilometres.

1.2 **Instructions** - The following instruction apply to this Purchase Description.

- (a) Requirements, which are identified by the word "**must**", are 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 supplied 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** up until the date of the expiration of the warranty period;
- (f) While the SI system **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**

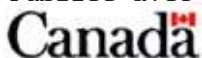
- (a) "**Provided**" means "provided and installed";

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OPI DSVPM 4 - DAVPS 4

Issued on Authority of the Chief of the Defence Staff

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



RDIMS # 4254409

- (b) "**Technical Authority**" means 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;
- (d) "**Commercially Equipped**" means that the vehicle is provided in its standard commercial configuration with no additional government-specific requirements; and
- (e) "**Curb Weight**" (**CW**) means the weight of the fully equipped vehicle. The curb weight includes the cab and chassis, all attached accessories, equipment, fuel, lubricant and coolants. The **Curb Weight** does not include the **Payload**, the weight of the driver/passenger(s) or their personal kit and equipment.

1.4 **Data Table** - The following table shows the bus minimum required performance.

CHARACTERISTIC	PARAGRAPH	UNITS	
CAPACITY	3.7.2 (a)	Litres	375
ALTERNATOR	3.14 (a)	Amperes	270
CCA	3.14 (b)	Amperes	2,300 Total

2. **APPLICABLE DOCUMENTS** - The following documents are referenced in this Purchase Description. Canada will not be supplying any reference documents. Available information on the organization is supplied.

SAE Standards

SAE World Headquarters  
400 Commonwealth Dr.,  
Warrendale, PA, 15096-0001  
<http://www.sae.org>

Canada Motor Vehicle Safety Act

Government of Canada / Transport Canada,  
<http://www.tc.gc.ca/eng/act-regulations/regulations-crc-cl038htm>

### 3. REQUIREMENTS

#### 3.1 Standard Design

- (a) The vehicle **must** be the latest model from a manufacturer who has demonstrated acceptability by selling this type and size class of vehicle for at least five (5) years;
- (b) The vehicle **must** include all components, equipment and accessories normally supplied for this application, although they may be not specifically described in this Purchase Description;
- (c) The vehicle **must** have engineering certification available for this application from the original manufacturers of major equipment, systems and assemblies;
- (d) The vehicle **must** conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- (e) The vehicle and accessories **must** operate in accordance with all original equipment manufacturers' (OEM) rated capacities and performance specifications.

#### 3.2 Operating Conditions

3.2.1 Weather - The vehicle **must** start and operate under the extremes of weather conditions found in Canada in temperatures ranging from -40 to 40°C.

3.2.2 Terrain - The vehicle **must** operate in all-weather conditions on highways, secondary roads and gravel roads.

3.3 Vehicle Safety Regulations - The vehicle **must** meet the provisions of the Canada Motor Vehicle Safety Act.

3.4 Vehicle - The vehicle **must** be a conventional front engine school bus.

#### 3.4.1 Vehicle Performance

- (a) The vehicle **must** have a road speed of at least 105 km/h when operating fully loaded on a flat level road; and
- (b) The vehicle **must** have grad ability at 90 km/h of at least 1.2 % when operating fully loaded.

#### 3.4.2 Payload

- (a) The vehicle **must** transport at least 44-seated adult passengers;
- (b) The vehicle **must** have a payload capacity of at least 100 kg for the vehicle driver; and
- (c) The vehicle **must** have a payload capacity of at least 100 kg per passenger transported.

3.4.3 Dimensions - The vehicle **must** have an interior headroom height at the interior centreline of at least 1,955 mm.

#### 3.5 Standard Vehicle

- (a) Body Type - The vehicle **must** accommodate for 44 adult passengers in forward facing seats;

(b) **Vehicle Body and Interior**

- i The vehicle **must** be provided with a tinted windshield;
- ii The vehicle **must** have a side window in the drivers area;

iii **Fans**

- 1. The vehicle **must** have two (2) adjustable fans to augment the windshield defrost system;
- 2. One fan **must** be located in the upper left hand corner of the windshield and the other located at the bottom of the windshield in the centre; and
- 3. Fans **must** be provided with blade guards.

iv **Windshield Wipers**

- 1. The vehicle **must** be provided with windshield wipers with at least 2 continuous speeds and one (1) intermittent speed; and
- 2. The windshield wipers **must** be provided with arctic wiper blades.

- v The vehicle **must** be provided with two pivoting interior sun visors;

- vi The vehicle **must** be provided with a fold-down, transparent tinted sun visor above the driver's side of the windshield;

vii **Windows**

- 1. All windows **must** be tinted thermo-pane safety glass (AS-2);
- 2. The passenger area **must** be provided with Upper T-Slide windows;
- 3. The side windows must be rattle proof;
- 4. The side windows must be waterproof and windproof when closed;
- 5. All windows must be fitted with latching devices; and
- 6. At least one (1) side window on each side **must** be a clearly labelled push out emergency exit window.

viii **Floors**

- 1. The vehicle **must** be provided with non-slip rubber floors and toe boards; and
- 2. The floor covering for the floor and steps **must** be **Equivalent** to Altro - Storm Grey.

- ix The driver's area **must** be provided with an interior light with a control switch;

- x The driver's area **must** be provided with a coat hook;



- xi        **Passenger Door**
1. The vehicle **must** be provided with an outward opening passenger access door on the right hand side behind the front axle;
  2. The door opening **must** be provided with a header pad;
  3. The door **must** be provided with thermal pane AS-2 safety glass side and curb windows;
  4. The door **must** be air or electrically operated with the control accessible by a seated driver; and
  5. The controls **must** include means to secure the door.
- xii       **Emergency Exit Door**
1. The vehicle **must** be provided with an emergency exit door at the rear; and
  2. The emergency exit door **must** be provided with an audible warning device to indicate if the door is open.
- xiii      **Escape Hatch**
1. The passenger area **must** be provided with at least two (2) roof-mounted emergency escape hatch; and
  2. The escape hatch **must** have an opening that is at least 580 mm square.
- xiv       **Luggage Racks**
1. The passenger area **must** be provided with overhead luggage racks strong enough to serve as a standee support; and
  2. Nets or Equivalent **must** be provided to retain luggage in the overhead rack.
- xv        The vehicle **must** be provided with a handrail located on the right side of the entrance door to assist passengers entering and exiting the bus;
- xvi       **Divider**
1. The vehicle **must** be provided with a divider located behind the driver's seat; and
  2. The divider **must** not interfere with the front passenger seat clearance.
- xvii      The vehicle **must** be provided with air horn(s) protected from snow clogging.
- (c)      **Vehicle Body Structure**
- i        The vehicle body **must** be built in compliance with all commercial standards;
  - ii       The vehicle **must** be provided with a light-weight engine compartment door equipped with acoustical panels to reduce engine noise;

- iii The vehicle **must** be provided with a removable inner panels to allow access to the roof cap area;
  - iv The passenger area **must** have a water resistant plywood flooring at least 15.8 mm thick; and
  - v The vehicle **must** be provided with left and right removable mouldings to allow access to body wiring harnesses.
- (d) **Vehicle Thermal and Acoustic Insulation**
- i The vehicle **must** be provided with insulation with an insulation value of at least R5 over all interior surfaces (except windows and doors);
  - ii The vehicle **must** be provided with walls, ceiling and floor with a chemical and flame resistant insulation;
  - iii The vehicle **must** be provided with acoustic insulation; and
  - iv The vehicle **must** be provided with an insulated bulkhead separating the engine and interior passenger compartment in order to minimize vibration and noise.
- (e) **Heating, Ventilation and Air Conditioning System**
- i The vehicle **must** be provided with a forced air heating, ventilation and air conditioning system;
  - ii The system **must** include a control switch and temperature control;
  - iii **Passenger Heating System**
    - 1. The passenger heating system **must** leave the aisle clear of obstructions; and
    - 2. The passenger heating system **must** allow the use of the area underneath the seat in front of each passenger.
  - iv **Fuel-fired Heater**
    - 1. The passenger heating system **must** be provided with an auxiliary fuel-fired forced-air heating system, which can operate when the engine is shut-down;
    - 2. The fuel-fired heater **must** have an output of at least 10,000 kilocalories (40,000 BTU);
    - 3. The fuel-fired heater **must** heat the engine coolant;
    - 4. The fuel-fired heater **must** be provided with a timer and temperature controls;
    - 5. The fuel-fired heater **must** draw its fuel from the engine fuel tank; and
    - 6. The exhaust from the fuel-fired heater **must** be directed away from the vehicle.
  - v The heater for the front of the bus, including the driver's area and the windshield defrosting system,

- must** have an output of at least 22,500 kilocalories (90,000 BTU);
- vi The heater for the stepwell **must** have an output of at least 12,500 kilocalories (50,000 BTU); and
  - vii The passenger area **must** include heaters with a total output of at least 150,000 BTU;
  - viii **Air Conditioning System**
    - 1. The vehicle **must** be provided with an air conditioning system; and
    - 2. The air conditioning system **must** have an output of at least 22,500 kilocalories (90,000 BTU), of which at least 18,500 kilocalories (75,000 BTU) is used to cool the passenger area.
- (f) **Driver's Seat**
- i The vehicle must be provided with a six way high back medium to dark coloured upholstered driver seat with lumbar support;
  - ii The seat **must** be provided with pivoting arm rests;
  - iii The seat **must** be air suspended;
  - iv The seat **must** be push button controlled using air from the vehicle air system; and
  - v The seat **must** be provided with a retractable shoulder/lap belt assembly.
- (g) **Passenger Seating**
- i Passengers **must** be provided with medium to dark vinyl forward facing bench seats;
  - ii Passenger seats **must** have a width of at least 910 mm;
  - iii Passenger seats **must** be the high back style, at least 1,065 mm high from the floor to the top of the backrest;
  - iv Passenger seating **must** be installed with a distance of at least 760 mm on the passenger side and a distance of at least 785 mm on the driver side;
  - v The distance **must** be measured from the rear of one backrest to the rear of the next; and
  - vi Each seat **must** be provided with a retractable lap belt assembly for the first row of seats.
- (h) **Mirrors**
- i The vehicle **must** be provided with two (2) mirrors with flat section having an area of at least 60,000 mm<sup>2</sup> each;
  - ii Each mirror **must** be provided with a convex mirror section, below the flat section, with an area of at least 15,000 mm<sup>2</sup> mounted;
  - iii Mirror glass **must** be replaceable;

- iv Both mirrors **must** be motorized and adjustable from within the cab;
  - v Mirrors **must** be provided with heating systems;
  - vi Mirror heating **must** be activated by an in-cab control;
  - vii Heating elements **must** be replaceable;
  - viii One cross-view stainless steel mirror mounted on the right front corner **must** be provided; and
  - ix The driver's compartment **must** be provided with one interior, adjustable, rear view mirror positioned to allow the driver full view of the interior of the coach.
- (i) **Backup Camera**
- i The vehicle **must** be provided with a backup camera;
  - ii The camera **must** be provided with a camera mounted at the rear of the vehicle to allow visibility when the bus is being backed up;
  - iii The camera **must** be positioned to provide optimal visibility; and
  - iv A coloured monitor **must** be provided in the driver's area and positioned within easy view of the driver.
- (j) **Destination Sign**
- i The vehicle **must** be provided with a front mounted digital display;
  - ii The destination sign **must** be illuminated, if required, and glass enclosed;
  - iii The destination sign **must** be preprogrammed with the name of the destination of initial delivery; and
  - iv The destination sign **must** be programmable to display up to at least 6 different locations.
- (k) **Under Body Luggage Compartments**
- i The vehicle **must** be provided with under body luggage compartments accessible from the side of the bus;
  - ii The under body compartment **must** be provided with doors which swing upwards at least 135° to the fully open position;
  - iii The doors **must** be provided with weatherproof seals;
  - iv The doors **must** be provided with flush mounted, lockable, slam latches;
  - v The doors **must** be provided with gas struts or an **Equivalent** to hold the doors in the fully open position;
  - vi The under body compartment **must** be sprayed with X-Box Liner; and

- vii The floors of the under body compartments **must** be lined with tough perforated vinyl matting **Equivalent** to a Dry-Dek® vinyl flooring mat.

**(1) Radio & Speakers**

- i An AM/FM Compact-Disc combination radio **must** be provided;
- ii Four (4) premium quality speakers **must** be mounted in the passenger area in addition to the OEM radio speakers; and
- iii The radio must be equipped with a volume control for the speakers in the passenger area.

3.6 **Chassis** - The chassis **must** be reinforced at towing points and equipment mounting points.

3.6.1 **Axles**

- (a) The front axle capacity **must** be at least 4,536 kg; and
- (b) The rear axle capacity **must** be at least 9,526 kg.

3.6.2 **Suspension**

- (a) The vehicle **must** be provided with a (highway type) air suspension on the rear axle;
- (b) The front suspension capacity **must** be at least 4,536 kg;
- (c) The rear suspension capacity **must** be at least 9,526 kg;
- (d) The suspension system **must** be provided with shock absorbers at all wheel stations;
- (e) The vehicle **must** be provided with limited slip differential; and
- (f) The rear suspension system **must** be provided with an immediate response automatic height control valves;

3.7 **Engine** - The vehicle **must** be provided with at least 260 HP diesel engine.

3.7.1 **Engine Components**

- (a) The engine **must** be provided with an air filter;
- (b) The air filter **must** be a replaceable dry-type with at least two-stages;
- (c) The filter **must** be provided with a filter restriction gauge, mounted inside the vehicle, which is visible from the driver's position;
- (d) The engine **must** be provided with an engine coolant suitable for temperatures down to -40 degrees;
- (e) The engine **must** be provided with an exhaust system that directs the exhaust away from the vehicle; and
- (f) The cooling system **must** be provided with a thermostatic fan.

3.7.2 **Fuel Reservoirs**

- (a) The vehicle **must** have a fuel reservoir capacity of equal or more than that given as "CAPACITY" in the Data Table (paragraph 1.4); and
- (b) The fuel tank filler cap **must** be marked to identify the vehicle fuel.

3.7.3 **Engine Cold Weather Aids**

- (a) The engine **must** be provided with cold weather aids to enable the engine (operating with winter grade fuels/oils) to be started at temperatures down to -40° C. The engine starting aids may include but are not limited to: glow plug(s) and intake air grid heater;
- (b) The engine **must** be provided with 110-Volt engine block heaters with a capacity as recommended by the engine manufacturer or conforming to SAE J1310;
- (c) The battery **must** be provided with a 110-volt battery blanket; and
- (d) The engine **must** be provided with a heated fuel filter/water separator to preheat diesel fuel prior to starting.

3.8 **Automatic Transmission**

- (a) The truck **must** be provided with a fully automatic transmission.
- (b) The transmission **must** have at least five (5) forward speeds and one reverse speed;
- (c) The transmission **must** be provided with a neutral start safety switch; and
- (d) The transmission **must** be provided with an oil cooler.

3.9 **Brake System**

- (a) The vehicle **must** be provided with air actuated service brakes and spring actuated parking brakes;
- (b) The brake system **must** be provided with an anti-lock brake system (ABS);
- (c) The brake system **must** be provided with S-cam type air brakes with automatic slack adjusters. Air disc brakes will be acceptable;
- (d) The brake system **must** be provided with an air compressor with a capacity of at least 0.36 cubic metres per minute;
- (e) The brake system **must** be provided with a wet air reservoir that can be recharged using a quick connect fitting for the connection of an air-line;
- (f) The brake system **must** be provided with an automatic air dryer; and
- (g) The brake system **must** be provided with dust shields on each wheel station;

3.10 **Steering**

- (a) The vehicle **must** be provided with a power assisted steering system; and

- (b) The steering system **must** be provided with a telescopic/tilt steering column.

3.11 **Wheels and Tires**

- (a) The vehicle **must** be provided with steel-belted, tubeless radial tires;
- (b) The front axle **must** be provided with highway tires;
- (c) The rear axle **must** be provided with tires with a mud and snow tread;
- (d) The tires **must** be mounted on hub pilot disc wheels;
- (e) The wheels **must** be provided with loose wheel nut indicators;
- (f) The wheel assemblies **must** have a capacity of equal or greater than the load applied, at the top vehicle speed (paragraph 3.4.1 (a)); and
- (g) The wheel assemblies **must** be assembled in accordance to the tire and rim manufacturer's specifications.
- (h) **Spare Wheel and Tire Assembly** - The vehicle **must** be provided with a spare wheel and tire assembly for the front axle.

3.12 **Controls** - The vehicle **must** be provided with cruise control system, which includes a fast idle feature.

3.13 **Instruments**

- (a) All dash board gauges and readouts must be in metric units; and
- (b) Gauges and readouts which show both metric and English units will be accepted.

3.14 **Electrical System**

- (a) The electrical system **must** be provided with an alternator with an output of equal or more than that given as "ALTERNATOR" in the Data Table;
- (b) The electrical system **must** be provided with maintenance-free batteries with cold cranking amperes (CCA) of equal or more than that given as "CCA" in the Data Table (paragraph 1.4);
- (c) The electrical system **must** be provided with a master disconnect switch;
- (d) The wiring **must** be protected by insulating grommets where passing through metal;
- (e) The electrical system **must** be provided with an isolation bar to prevent trickle discharge of the batteries;
- (f) The vehicle **must** be provided with four (4) knockouts for additional switches on the dashboard;
- (g) The electrical system **must** be provided with a backup alarm to alert personnel that the vehicle is in backup mode;
- (h) The vehicle **must** be provided with a 12-VDC power outlet at the driver's station; and
- (i) The vehicle **must** be provided with a slave receptacle as close as possible to the battery compartment.

3.15     Lighting

- (a)    All vehicle lights, interior and exterior, except for the headlights, **must** be LED;
- (b)    The lighting system **must** be provided with halogen headlights;
- (c)    The lighting system **must** be provided with clearance lights, stoplights, turn signal lights, taillights and reverse movement lights;
- (d)    The vehicle **must** be provided with stoplight;
- (e)    The stoplight **must** be mounted at the rear centre of the vehicle;
- (e)    The vehicle **must** be provided with an engine compartment light;
- (f)    The vehicle **must** be provided with fog lights;
- (g)    The vehicle **must** be provided with a protected step well light mounted in the right hand front part of the step well;
- (h)    The light **must** be energized when any door is opened or the interior lights are energized;
- (i)    The vehicle **must** be provided with at least five (5) flush mounted, centre aisle, ceiling lamps with switch located on the dashboard;
- (j)    The ceiling lamps **must** be located to minimize driver glare;
- (k)    The vehicle **must** be provided with a reading map light switch installed on dash and within an easy reach of the driver; and
- (l)    The vehicle **must** be provided with under-body luggage lights activated through pin switches when the doors are opened, or by an illuminated master light switch located in the driver's compartment.

3.16     Hydraulic System - NOT APPLICABLE

3.17     Lubricants and Hydraulic Fluids

- (a)    The vehicle **must** operate using synthetic non-proprietary lubricants and hydraulic fluids; and
- (b)    The vehicle **must** be provided with grease fittings conforming to SAE J534.

3.18     Paint Colour - The vehicle **must** be painted white using the manufacturer's standard commercial painting system.

3.18.1   Corrosion Protection

- (a)    An approved aftermarket rust protection system **must** be supplied. Rust protection systems that have been approved include Krown Rust Kontrol, Rust Check or an **Equivalent**; and
- (b)    Each vehicle **must** have a decal from the rust protection system provider permanently affixed in a visible but protected location.

3.18.2   Paint Features and Accessories

- (a)    Chassis items **must** be painted black. Chromed, polished and mill finished surfaces **must** not be painted; and



- (b) **Decals** - The vehicle **must** have decals **provided** in accordance with those shown in **FIGURE 1 - DECALS**. The figure is only a visual representation of the decals and their position.



**FIGURE 1 - DECALS**

3.19 **Identification** - The vehicle information (manufacturer's name, model, Vehicle Identification Number (VIN) and the GAWR and GVWR ratings) **must** be permanently marked in a conspicuous and protected location.

3.19.1 **Warning and Instruction Plates**

- (a) The vehicle **must** be provided with warning and operation instruction plates in accordance SAE J115;
- (b) The plates **must** be visible to a person standing near the location; and
- (c) The plates **must** use graphic symbols, as defined in SAE J1362 or be written in the two (2) official languages (English and French).

3.20 **Equipment**

- (a) **Wheel Changing Tool** - The vehicle **must** be provided with wheel changing tools including a heavy-duty jack, with the capacity to lift the vehicle;
- (b) **Tow Hooks**
  - i The vehicle **must** be provided with tow hooks mounted at the front and the rear; and
  - ii Tow hooks and mountings **must** permit the recovery of the vehicle.
- (c) **Mud flaps** - The vehicle **must** be provided with front and rear mud flaps;

(d) **License Plate Holders**

- i The vehicle **must** be provided with front and rear license plate holders; and
- ii The rear license plate **must** be illuminated.

(e) **Filler Caps** - The vehicle **must** be provided with permanently marked filler caps, which identify the contents using international symbols or in French and English; and

(f) **Emergency Equipment**

- i The vehicle **must** be provided with one (1) 10 unit First Aid kit, stowed near the driver's seat;
- ii The vehicle **must** be provided with two (2) triangular emergency warning flares complete with storage container;
- iii The vehicle **must** be provided with one (1) glass breaking tool, securely mounted and readily accessible in the proximity of the driver. A fireman's axe will be accepted in lieu; and
- iv The vehicle **must** be provided with two (2) dry chemical type fire extinguishers, securely mounted and in proximity of the driver, each with a minimum 5BC rating.

4. **INTEGRATED LOGISTIC ITEMS**

4.1 **Contractor Documentation and Integrated Logistic Items**

4.1.1 **Documents supplied to the Technical Authority**

(a) **Data Summary**

- i A bilingual data summary **must** be supplied for the vehicle with data and a vehicle picture on the **Technical Authority** supplied form;
- ii The **Technical Authority** will supply a template of an approved data summary to the Contractor;
- iii The **Technical Authority** will supply the publication number for the data summary;
- iv The Contractor **must** supply the information requested for all accessories and features for the vehicle;
- v The Contractor **must** submit a digital copy (MS Word) of the completed data summary to the **Technical Authority** for approval 15 working days before the delivery of the vehicle; and
- vi Data summary acceptance or comments will be supplied within 15 working days of receipt.

(b) **Manuals for Approval**

- i The Contractor **must** supply access to a set of manuals 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 vehicle. Accessory manuals may be included as supplements to the vehicle manuals;
- iii Digital copies **must** be supplied as a searchable PDF format or **equivalent**;
- iv On-line maintenance manuals may be supplied in lieu of the digital maintenance manuals, however, these **must** be supplied without subscription fees;
- v Manuals will not be returned;
- vi Manual approval or comments will be supplied within 15 working days of receipt; and
- vii The Contractor **must** supply responses to the **Technical Authority's** comments.

(c) **Photographs and Line Drawings**

- i Two (2) digital colour photographs, one left-front three-quarter view, and one right-rear three-quarter view of the vehicle **must** be supplied;
- 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 front-view and one side-view line drawing showing dimensions of the vehicle **must** be supplied. Brochure line drawings are acceptable;
- iv Photographs **must** an uncluttered background; and
- v Photographs **must** be in a JPEG (Joint Photographic Experts Group) format. Photographs **must** have a resolution of at least ten (10) Mega pixels; and
- vi The photographs **must** be supplied 15 working days before the delivery of the vehicle.

#### 4.1.2 Items Supplied with Each Vehicle

##### (a) Operator's Manual

- i An operator's manual for the safe vehicle operation including all supplied attachments **must** be supplied;
- ii The operator's manual **must** be supplied in a bilingual format or as 2 manuals (one English, and one French) in a single binder;
- iii In addition to the paper copy of the operator's manual, a digital copy on a CD or DVD **must** be supplied;
- iv The CD or DVD **must** be permanently and legibly labeled with the list of contents; and
- v The digital copy **must** not require a password or an Internet connection to be functional.

##### (b) Warranty Letter

- i A paper copy of the completed bilingual warranty letter in the approved format with each vehicle shipped **must** be supplied;
- ii The **Technical Authority** will supply a template of an approved warranty letter to the Contractor;
- iii The Contractor **must** supply a complete description of the warranty in the warranty letter with the requested warranty terms and any system or sub system warranty that exceeds the minimum requested in the contractual documents;
- iv The warranty letter **must** include the name and contact information of the closest designated warranty provider and other designated warranty providers across Canada; and
- v Designated warranty providers **must** honour the warranty letter.

##### (c) Rust Protection Warranty - A copy of the warranty from the rust protection provider **must** accompany each vehicle;

##### (d) Line Setting Ticket

- i The Contractor **must** provide a line setting ticket, or **Equivalent**, describing the components supplied on the cab and chassis;
- ii One copy of the line setting ticket **must** accompany each completed vehicle to the final delivery point; and

- iii The Contractor **must** produce a supplement listing for all non-production line components and systems included.

#### 4.1.3 Items Supplied for Each Destination

##### (a) Maintenance Manual - English

- i One copy of English maintenance manuals is required for each destination for the maintenance and repair of the vehicle **must** be supplied;
- ii The manuals **must** be submitted within 30 working days after the delivery of the vehicle; and
- iii The maintenance manuals **must** be supplied either in a paper format or on a CD/DVD ROM.

##### (b) Parts Manual - English

- i One copy of English Parts manuals is required for each destination for the vehicle, including features and accessories, **must** be supplied;
- ii The manuals **must** be submitted within 30 working days after the delivery of the vehicle; and
- iii The parts manuals **must** be supplied either in a paper format or on a CD/DVD ROM.

#### 4.2 Training

##### (a) Training - Familiarization - English

- i The Contractor **must** supply a familiarization course in English;
- ii The course instructor **must** be a Training Provider with full knowledge of the vehicle;
- iii The familiarization course **must** include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **must** supply responses to questions;
- v The familiarization course **must** have a minimum duration of eight (8) hours of training;
- vi The familiarization course **must** accommodate up to eight (8) personnel;
- vii The familiarization course **must** be supplied at the delivery destination;
- viii The date for the maintenance training course **must** be arranged with the **Technical Authority**;
- ix After completion of the familiarization course, the Contractor **must** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.

(b) **Training - Familiarization - French**

- i The Contractor **must** supply a familiarization course in French;
- ii The course instructor **must** be a Training Provider with full knowledge of the vehicle;
- iii The familiarization course **must** include operation and maintenance segments demonstrating, all safety measures required for safe vehicle use, instructions on the use of all features and accessories provided and maintenance;
- iv The instructor **must** supply responses to questions;
- v The familiarization course **must** have a minimum duration of eight (8) hours of training;
- vi The familiarization course **must** accommodate up to 8 personnel;
- vii The familiarization course **must** be supplied at the delivery destination;
- viii The date for the maintenance training course **must** be arranged with the **Technical Authority**;
- ix After completion of the familiarization course, the Contractor **must** have the "PROOF OF FAMILIARIZATION" certificate signed by the senior course attendee; and
- x The **Technical Authority** will supply the "PROOF OF FAMILIARIZATION" document template in a digital format.