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Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions Travaux  
publics et Services gouvernementaux Canada  
See herein for bid submission  
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Voir la présente pour les  
instructions sur la présentation  
d'une soumission

NA  
Alberta

## 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

Public Works and Government Services Canada/Travaux  
publics et Services gouvernementaux Canada  
Harry Hays Building (HHB)  
Room 759, 220-4th Avenue SE  
Calgary  
Alberta  
T2G 4X3

<b>Title - Sujet</b> Mobile Laboratory Trailer Mobile Laboratory Trailer	
<b>Solicitation No. - N° de l'invitation</b> K3E03-220328/A	<b>Amendment No. - N° modif.</b> 007
<b>Client Reference No. - N° de référence du client</b> K3E03-220328	<b>Date</b> 2022-03-21
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$CAL-143-7247	
<b>File No. - N° de dossier</b> CAL-1-44024 (143)	<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> Mountain Daylight Saving Time MDT <b>on - le 2022-03-29</b> Heure Avancée des Rocheuses HAR	
<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> Kunz, Roxanne	<b>Buyer Id - Id de l'acheteur</b> cal143
<b>Telephone No. - N° de téléphone</b> (403) 463-0037 ( )	<b>FAX No. - N° de FAX</b> (418) 566-6167
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Environment and Climate Change Canada 3rd Fl STE 150 123 Main Street Winnipeg, MB R3C 4W2	

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 amendment 007 is being raised to incorporate the following items into solicitation K3E03-220328/A.

**1. Questions and Answer \*Revisions\* from the Virtual Site Visit on February 3, 2022.**

Q1: At Annex "A", Installation, Bullet point #1: Please advise if the installed aftermarket front grille guard and winch on the supplied 2016 F250 can be removed to gain payload allowance for the service body to achieve a safe weight distribution and to ensure legal travel on roadways.

A1: **The vehicle grille guard and winch cannot be removed to increase payload allowance. (Refer to Annex "A")**

Q2: Re: line item 1.1.5 of the Compliance Matrix – "Service body maximum wet weight must not exceed 1800 lb". Please clarify the definition of "wet weight". Please advise the required cargo capacity once the body and equipment have been installed. Considering the truck bed will be removed, the payload allowance for the service body will be increased. The bidder proposed the following: The finished unit which includes the chassis, service body, full fuel in the auxiliary diesel tank and fully filled propane tanks must not exceed the GVWR of the supplied chassis when loaded with 300lb cargos.

A2: **Wet weight is defined as the total weight of the service body and all installed equipment, plus full fuel in the auxiliary diesel tank and one fully filled propane tank.**

**The service body maximum wet weight has been increased to 2600 lbs to account for the removal of the truck bed. The mobile laboratory trailer was intended to be mounted to the chassis of a 2016 Ford F250 diesel truck. This has been changed to a 2013 Ford F250 gasoline truck. All other vehicle dimensions and accessories remain the same.**

**The combined weight of the chassis, aftermarket front grille guard and winch (~200 lbs), and wet-weight service body loaded with 300 lbs of cargo must not exceed the GVWR of 9900 lbs. (Refer to line item 1.1.5)**

Q3: Re: line item 3.3 of the Compliance Matrix – "Must include two -12V LiFePO4 batteries with minimum 200Ah total capacity".

The bidder has concerns about the performance of LiFePO4 batteries in cold temperatures. Considering the inability of LiFePO4 batteries to charge in cold temperatures paired with the fact that operating them in cold climate conditions can potentially harm the batteries and lead to issues such as degradation and reduction in their capacity and power density, the bidder would propose to use fully sealed deep-cycle AGM batteries instead. Deep-cycle AGM batteries have been proven reliable and tough in all climate conditions by industrial practices.

A3: **The Requirements have been updated, deep-cycle AGM batteries are now required. (Refer to line item 3.3)**

Q4: Re: line item 3.2 of the Compliance Matrix - " Must include a minimum of six 12V outlets, four 120V AC duplex outlets, GFCI outlets where applicable"  
What kind of 12V outlets are required? Do they refer to socket style?

A4: **12V socket-style outlets are required. (Refer to line item 3.2)**

- Q5: Re: line item 3.4 of the Compliance Matrix - " Must include a Sine wave inverter/charger, with auto transfer switch, minimum 1000W/50A. Xantrex Freedom XC, Victron MultiPlus or equivalent. "  
Does "Sine wave inverter" refer to Pure Sine Wave Inverter or Modified Sine Wave Inverter?
- A5: **A pure sine wave inverter is required. (Refer to line item 3.4)**
- Q6: Re: line item 3.5 of the Compliance Matrix - " Must include DC-DC smart charger, minimum 30A." Please clarify "DC-DC smart charger"? Does that refer to an external regulator (e.g., Victron DC-DC Buck Boost Converter) utilizing the power from the chassis alternator to charge the auxiliary batteries?
- A6: **DC-DC smart charger refers to a device with built-in Bluetooth (for communication with a smartphone app) that regulates the charging of the service body batteries from the chassis alternator. The device must have a mechanism that can detect when the engine is running and must be fully programmable.**
- Q7: Re: line item 3.7 of the Compliance Matrix - " Must include controls for breakers, heater, battery monitor, and DC-DC charger located together in an easily accessible location. All "smart" electrical devices must be inter-compatible and able to communicate with each other via Bluetooth."
- Please clarify the definition of "smart electrical devices". Please clarify the request of having electrical devices being able to communicate with each other via Bluetooth.
- A7: **Compliance matrix line item 3.7 has been updated. The requirement for devices to communicate with a smartphone app has been removed.**
- Q8: Would foreign commodities installed in Canada be considered as Canadian Goods and Canadian services?
- A8: **Refer to section 5.1.2.1 Canadian Content Certification on page 7 of the solicitation document. For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult [Annex 3.6](#), Example 2, of the Supply Manual.**

## 2. At Annex "A", REQUIREMENT

DELETE: **Installation** – in its entirety

INSERT: **Installation**

- The service body must be installed and wired to the chassis of a 2013 Ford F250 4x4 with a wheelbase of 158" and a Gross Vehicle Weight Rating (GVWR) of 9900 lbs. This will require the removal of the truck bed by the contractor.
- The vehicle has an approximate payload capacity of 2750 lbs, which accounts for an aftermarket grille guard and winch, but does not account for the increased payload capacity gained after the removal of the truck bed.
- The service body must be removable and easily installed on another vehicle of the same nature when the existing vehicle is replaced.
- The contractor is responsible for all costs associated with the transport of the ECCC vehicle to their facility for installation.
- The vehicle cannot be away from ECCC in Winnipeg for more than ten business days.
- Any defects/deficiencies that require repair upon inspection must be completed within 2 weeks.

## 3. At Annex "A", REQUIREMENT

DELETE: COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE  
SPECIFICATIONS – in its entirety.

INSERT:

### COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:

Requirement:	Manufacturer(s) Offered:	Model Number(s) Offered:
Custom truck service body, installed and wired to the chassis of a 2013 Ford F250 4x4 with a wheelbase of 158"		

Item #	Performance Specification	Status (M) Mandatory	Performance Specification Offered: Bidder <u>should</u> indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders <u>should</u> cross-reference where this performance specification is indicated in their supporting documents
1	<b>Exterior</b> (Note: left side refers to driver's side, right side refers to curb side.)			
1.1	Requires a custom fabricated aluminum truck service body complete with rear entry door, two external storage compartments, and lighting,	M		

	based on the following overall dimensions:			
1.1.1	Overall service body length must be 96" at truck bed, with 48" kickover/overhang over truck cab;	<b>M</b>		
1.1.2	Overall service body width must be between 90" and 92";	<b>M</b>		
1.1.3	Maximum height of vehicle and service body must not exceed 122";	<b>M</b>		
1.1.4	Must have a rear entry door with window and screen o Height: between 78" and 82" o Width: between 28" and 32"	<b>M</b>		
1.1.5	Service body maximum wet weight must not exceed 2600 lbs.  Wet weight is defined as the total weight of the service body and all installed equipment, plus full fuel in the auxiliary tank and one fully filled propane tank.	<b>M</b>		
1.2	Service body must be constructed out of interlocking aluminum panels, fastened using an internal snap-lock system. Panels must be a minimum of 0.1" thickness.	<b>M</b>		
1.2.1	Aluminum panels must be insulated with a minimum of 2" of spray-foam or equivalent to achieve a minimum R-value of 13.	<b>M</b>		
1.3	Service body must have two external storage compartments on the right side.	<b>M</b>		
1.3.1	One external storage compartment with the following dimensions: - Height: between 20" and 26" - Width: between 66" and 70" - Depth: between 24" and 28"	<b>M</b>		
1.3.2	One external storage compartment that can accommodate one 20lb standard propane tank. Bidder to supply propane tank and install gas line to refrigerator.	<b>M</b>		
1.3.2.a	Propane tank must be steel, manufactured no earlier than January 2020, and include a gauge.	<b>M</b>		
1.4	The rear door must be constructed out of the same materials and insulated in the same manner as the surrounding service body.	<b>M</b>		
1.5	All external compartments must use a D-style door lock with a T-style door holder.	<b>M</b>		

1.6	Must have a rear step with non-slip metal tread. Rear step must be fully constructed of metal and must not protrude more than 10" from rear of vehicle. Width: minimum 24", maximum 96"	<b>M</b>		
1.7	Must have four double-paned windows with marine-grade seals.	<b>M</b>		
1.7.1	Rear door must have a sliding window with a screen, 30" H x 18" W.	<b>M</b>		
1.7.2	Left side must have sliding or outward opening windows with a screen, positioned to maximize natural lighting on countertops. 18" H x 36" W.	<b>M</b>		
1.7.3	Right side must have sliding or outward opening windows with a screen, positioned to maximize natural lighting on countertops. 18" H x 36" W.	<b>M</b>		
1.7.4	Must include at the front of service body facing into truck cab: 12" H x 18" W, closed window.	<b>M</b>		
1.8	Requires two LED scene lights mounted on each outer side at the rear of body.	<b>M</b>		
1.9	Requires one directional LED light bar mounted over the door with a control switch installed in truck cab or service body.	<b>M</b>		
1.10	The kickover/overhang storage must be finished in the same manner as floor, ceilings and walls of the rest of the service body.	<b>M</b>		
1.10.1	The kickover/overhang must have a 3-6" raised lip to prevent stored items from falling out.	<b>M</b>		
2	<b>Interior</b>			
2.1	Must include Storage closet appropriate for storing jackets, hip waders and PDF's. Dimensions must be: Width: min 12", max 24" Depth: min 12", max 24" Height: min 48", max 72"	<b>M</b>		
2.2	Must include custom cabinetry and slide drawers for storing laboratory equipment.	<b>M</b>		
2.3	Interior countertops must be made of either stainless steel, phenolic resin, epoxy resin, or chemical resistant laminate.	<b>M</b>		
2.4	Must include a flat-bottomed sink installed in left countertop, located on	<b>M</b>		

	left side of countertop. No faucet required.			
2.4.1	The dimensions of the sink must be a minimum of 12" L x 12" W x 3" D.	M		
2.4.2	The sink must be plumbed for direct drainage outside of service body with manual stopper plug.	M		
3	<b>Electrical</b>			
3.1	Must include LED lighting throughout service body interior. Colour temperature must be between 4000-5000 K.	M		
3.2	Must include a minimum of six 12V socket-style outlets, four 120V AC duplex outlets, GFCI outlets where applicable.	M		
3.3	Must include two – 12V AGM deep-cycle batteries with minimum 200Ah total capacity. Product must be CSA certified or equivalent by a certification organization accredited by the Standards Council of Canada.	M		
3.3.1	12V batteries must be housed in an insulated space in order to remain functional at outdoor temperatures ranging between -40° C and +40° C.	M		
3.3.2	Must include a digital battery monitor for 12V batteries. Victron BMV-712 or equivalent. Product must be manufactured by a company with ISO9001 accreditation. Product must be CSA certified or equivalent by a certification organization accredited by the Standards Council of Canada.	M		
3.4	Must include a pure Sine wave inverter/charger, with auto transfer switch, minimum 1000W/50A. Xantrex Freedom XC, Victron MultiPlus or equivalent. Product must be manufactured by a company with ISO9001 accreditation. Product must be CSA certified or equivalent by a certification organization accredited by the Standards Council of Canada.	M		
3.5	Must include DC-DC smart charger, minimum 30A. The device must have a mechanism that can detect when the engine is running and must be fully programmable.	M		

	Product must be CSA certified or equivalent by a certification organization accredited by the Standards Council of Canada.			
3.6	Must include 12V battery disconnect switch ("kill switch").	<b>M</b>		
3.7	Must include controls for breakers, heater, battery monitor, and DC-DC charger located together in an easily accessible location.	<b>M</b>		
3.8	Shore power connection, female or male inlet with 10' male-to-male or female-to-male cable must be included. Must be fully sealed from elements. Smartplug, Maringo EEL or equivalent.	<b>M</b>		
3.9	Must include fridge/freezer combo unit, between 4.0 – 5.0 cubic feet. This unit must be capable of running on propane, AC power, and DC power.	<b>M</b>		
4	<b>HVAC</b>			
4.1	Must include heater appropriate for interior space with 8-12L auxiliary fuel tank. Espar heater or equivalent. Product must be manufactured by a company with ISO9001 accreditation. Product must be CSA certified or equivalent by a certification organization accredited by the Standards Council of Canada.	<b>M</b>		
4.1.1	Heater to be installed at floor level and have ducting to rear of body.	<b>M</b>		
4.2	Auxiliary fuel tank door must be located on left side for refuelling.	<b>M</b>		
4.3	Must include two roof vent fans with intake/exhaust switch. Dometic FanTastic or equivalent. Must be 14"x14", include intake/exhaust switch, speed switch, run on 12V power.	<b>M</b>		
5	<b>Safety Goods</b>			
5.1	Must include CO detector and smoke alarm, installed.	<b>M</b>		
5.2	Must include Class ABC fire extinguisher and bracket installed in storage closet.	<b>M</b>		
6	<b>Certifications</b>			
6.1	Bidders must supply proof of a valid National Safety Mark (NSM) issued by Transport Canada or equivalent certification from another regulatory body.	<b>M</b>		

N° de l'invitation - Solicitation No.  
K3E03-220328/A  
N° de réf. du client - Client Ref. No.  
K3E03-220328

N° de la modif - Amd. No.  
007  
File No. - N° du dossier  
CAL-1-44024

Id de l'acheteur - Buyer ID  
CAL143  
N° CCC / CCC No. / N° VME - FMS

6.2	The bidder must demonstrate a minimum of 5 projects that have been completed within the last 5 years with similar scope of constructing custom truck service bodies made of aluminum or steel.	M		
7	<b>Location</b>			
7.1	Bidder must be within an 800KM distance from Winnipeg, Manitoba.  <b>Address:</b>  <b>Distance:</b>	M		

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**