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Bid Receiving Public Works and Government  
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800 Burrard Street, Room 219  
800, rue Burrard, pièce 219  
Vancouver, BC V6Z 0B9  
Bid Fax: (604) 775-7526

**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 - Pacific  
Region  
219 - 800 Burrard Street  
800, rue Burrard, pièce 219  
Vancouver, BC V6Z 0B9

<b>Title - Sujet</b> Chemical Identifier	
<b>Solicitation No. - N° de l'invitation</b> M2989-192744/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> M2989-192744	<b>Date</b> 2019-02-13
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$VAN-799-8526	
<b>File No. - N° de dossier</b> VAN-8-41195 (799)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2019-02-25</b>	
<b>Time Zone</b> Fuseau horaire Pacific Standard Time PST	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Dunsmore, Adrienne	<b>Buyer Id - Id de l'acheteur</b> van799
<b>Telephone No. - N° de téléphone</b> (604) 351-7735 ( )	<b>FAX No. - N° de FAX</b> (604) 775-7526
<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> Raison sociale et adresse du fournisseur/de l'entrepreneur	
<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>

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VAN799  
CCC No./N° CCC - FMS No./N° VME

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## Solicitation #: M2989-192744

### Amendment #: 002

This Amendment is being raised to cancel the previous amendment (Amd 001), answer questions from Bidders, and to revise the Solicitation.

#### **I. AMENDMENT 001 CONTAINED THE INCORRECT DOCUMENT. PLEASE DISREGARD THIS AMENDMENT IN ITS ENTIRETY.**

#### **II. Bidder questions**

##### **Question 1:**

Re: Annex "A", 2.2 *The instrument must have: a) A rechargeable battery*

- i. capable of at least 10 hours of continuous operation; or*
- ii. that detaches from the instrument and is capable of at least 4 hours of continuous operation;*
- or*
- iii. capable of at least 4 hours of continuous operation, with the ability to extend that operation up to 10 hrs with disposable batteries.*

Most handheld devices have rechargeable built-in Li-ion batteries providing continuous operation from 4 to 8 hours. During routine operations, these handheld systems are not generally kept on for 10 hours straight and are used on demand. Hence it is not necessary to demand such restrictive operational parameters.

Would it be possible to change this requirement to state only the following:

"The instrument must have a rechargeable battery that is capable of 4 hours continuous operation." **Or** can this requirement can be categorized as a non-mandatory technical spec.?

##### **Answer 1:**

Re: Annex "A" 2.2 a)

This requirement must remain as is. Our team requires an instrument that we can use for 10 hours continuously; a single, built-in lithium battery that only lasts 4 hours on a charge will not meet our needs.

##### **Question 2:**

Re: Annex "A", 2.3 *The instrument must include:*

- c) A built-in flexible optical probe or a laser output with the capacity to scan chemical substances at angles up to and including 90 degrees, for sampling in hard-to-reach locations;*

Having a flexible fiber optic probe limits the instrument's ability to have other types of adapters and when fiber probes are used the throughput of light is reduced leading to a lower signal intensity and hence a poor identification efficiency. Depending on the optical design and size of alternative instruments such a probe would not be needed. Accessing hard-to-reach locations can still be satisfied without the need for such capability.

Would it be possible to change this requirement to state:

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"2.3 The instrument must include:

c) The parts necessary to provide the capability to scan chemical substances at an angle of 90 degrees and should be designed to provide access to hard-to-reach locations "?

**Answer 2:**

Re: *Annex "A" 2.3 c):*

A laser output capable of sampling hard-to-reach locations with a built-in flexible optical probe, or the parts (accessories) necessary to provide the capability to scan chemical substances at an angle of 90 degrees and designed to access hard-to-reach locations, will be acceptable.

**Question 3:**

Re: *Annex "A", 3.2 Manufacturer must provide reach back support and access to a spectroscopist, 24 hours a day, seven days a week, for the lifespan of the instrument.*

Such access to a spectroscopist can come with an expensive price tag. This kind of service is generally not needed for identification purposes. A well designed instrument with the right optical design, mixture identification algorithm and an extensive database of more than 14,000 substances would handle almost any demanding identification application without the need to consult a spectroscopist. In addition, access to a product specialist in Canada during work hours is possible without any cost with other vendors.

Would you consider removing this requirement from the mandatory technical requirements?

**Answer 3:**

Re: *Annex "A" 3.2:*

Reachback support service is required to help identify unknown chemicals. The reviewer needs to be a spectroscopist, and not a product specialist, because someone with scientific knowledge and expertise will be required to interpret the spectrograph we will supply them. However, the 24/7 availability requirement may be relaxed:

3.2 Manufacturer must provide reach back support and access to a spectroscopist during standard working hours for the lifespan of the instrument in order to identify samples that are not yet in the database.

**III. Revisions**

**Solicitation EZ897-192061/A is amended as follows:**

**DELETE:**

**Annex "A"**

2.3 The instrument must include:

- a) Point-and-shoot operation with all features easily usable when wearing personal protective equipment such as heavy gloves, chemical suits, and breathing devices;
- b) Hands-free capability with built-in scan delay;

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- c) A built-in flexible optical probe or a laser output with the capacity to scan chemical substances at angles up to and including 90 degrees, for sampling in hard-to-reach locations;
- d) Fully-adjustable laser capable of making accurate readings through clear glass and plastic tubes and reliably identifying both light and dark coloured samples of crystals, powders, liquids, and gels;
- e) A vial holder option that will allow the user to store vials of pre-collected samples directly adjacent to the laser and shielded from external light sources; and
- f) A library of at least 10,000 individual substances, including chemicals, drugs, and excipients. The library must be user-expandable to permit CLEAR team members to add new substances.

**INSERT:**

**Annex "A"**

2.3 The instrument must include:

- a) Point-and-shoot operation with all features easily usable when wearing personal protective equipment such as heavy gloves, chemical suits, and breathing devices;
- b) Hands-free capability with built-in scan delay;
- c) A laser output capable of sampling hard-to-reach locations with a built-in flexible optical probe, or the parts (accessories) necessary to provide the capability to scan chemical substances at an angle of 90 degrees and designed to access hard-to-reach locations;
- d) Fully-adjustable laser capable of making accurate readings through clear glass and plastic tubes and reliably identifying both light and dark coloured samples of crystals, powders, liquids, and gels;
- e) A vial holder option that will allow the user to store vials of pre-collected samples directly adjacent to the laser and shielded from external light sources; and
- f) A library of at least 10,000 individual substances, including chemicals, drugs, and excipients. The library must be user-expandable to permit CLEAR team members to add new substances.

**DELETE:**

**Annex "A"**

3.2 Manufacturer must provide reach back support and access to a spectroscopist, 24 hours a day, seven days a week, for the lifespan of the instrument.

**INSERT:**

**Annex "A"**

3.2 Manufacturer must provide reach back support and access to a spectroscopist during standard working hours for the lifespan of the instrument in order to identify samples that are not yet in the database.

**ALL OTHER TERMS AND CONDITIONS OF THE RFP REMAIN UNCHANGED**