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**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**  
Scientific, Medical and Photographic Division /  
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Ottawa  
Ontario  
K1A 0S5

<b>Title - Sujet</b> Test Cell Analysis Control System	
<b>Solicitation No. - N° de l'invitation</b> K8A21-200244/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> K8A21-200244	<b>Date</b> 2019-11-29
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$PV-956-77857	
<b>File No. - N° de dossier</b> pv956.K8A21-200244	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-12-03</b>	<b>Time Zone Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Courteau, Robert	<b>Buyer Id - Id de l'acheteur</b> pv956
<b>Telephone No. - N° de téléphone</b> (343) 550-1614 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction: 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 Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) 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>

**Amendment 002 is being issued to answer a question:**

**Question**

Would Environment and Climate Change Canada consider a specification change to allow a streamlined Test Cell Analysis Control System which is better prepared for future expansion?

**Background**

ECCC's stated goal is to *replace the existing test cell system with a current state-of-the-art system*. Replacing the existing Test Cell Analysis Control System is certainly required to achieve this goal. Integration to the existing emissions equipment with a commercially available Test Cell Analysis Control System however, would require a huge programming effort requiring customization of the purchased Test Cell Analysis Control System to automate the existing equipment. This results in a high initial price for the Test Cell Analysis Control System, and upon completion, ECCC would be left with another highly customized Test Cell Analysis Control System. As ECCC purchases emissions equipment in the future, the majority of the customizations will be made obsolete. This is because new commercially available equipment is much easier to integrate into a Test Cell Analysis Control System using pre-existing standardized drivers. We ask ECCC to consider the Test Cell Analysis Control System as a *platform* for future expansion, because this better achieves ECCC's stated goal while significantly reducing your price.

**General Specification Changes**

- Remove references to reporting and integration with CVS, Exhaust Analysis Bench, Particulate Sampling System, and Non-regulated Emission Sampling System
- Integration to Dynamometer to incorporate transfer of road load coefficients, inertia from the new Test Cell Analysis Control System to the dynamometer, retrieval of dynamometer coastdown data from the dynamometer controller to the HOST and dynamometer speed via UDP to the Test Cell Analysis Control System from the dynamometer controller.
- New Test Cell Analysis Control System sends signals to the existing test cell system for phase start, phase stop, hot soak, and end of test.

**Answer**

The intent of the request for proposal (RFP) is to acquire a test cell analysis control system that is capable of interacting in the manner described with a CVS system, exhaust analysis bench, particulate sampling system and a non-regulated emission sampling system. The function of each of these systems is described in the RFP. It is the intent of the RFP that the control system be provided by the vendor in a standard configuration which interacts with all of these pieces of equipment in a 'standard' way. 'Standard' in this case referring to a non-customized manner which the vendor would provide in a typical installation. In other words, using pre-existing standardized drivers. If the vendor has an already built 'plug-in' for any of the commercial products described (i.e. AVL particulate sampler) it is expected that the vendor would provide that already existing functionality. Environment and Climate Change Canada (ECCC) is aware that then integrating the newly acquired control system with non-standard equipment will require

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002  
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pv956  
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the modification of the equipment (not the control system) to communicate to the control system as if it were typically connected 'standard' equipment. ECCC is also aware that this will be a huge engineering effort on the part of ECCC and we are not asking the vendor to perform any of this work. ECCC is, however, asking that the vendor provide sufficient detail of the command structure (AK, Modbus etc.) and technology (Ethernet, rs485 etc.) that a competent engineer could modify the existing ECCC hardware to work with the vendor's non-modified standard system (i.e. the existing hardware will communicate as if it were commercial equipment using the vendor's standard drivers).

With this clarification in mind, ECCC believes that the RFP as written reflects the intent of the proposed changes contained within this question. The control system purchased from the vendor will support commercially provided equipment which could/will be purchased at a later date to replace the older customized hardware that ECCC currently uses. It is ECCC's intent that the control system serve as a platform for future expansion as it would already be using standardized drivers and would not be customized. It is also the intent of ECCC that by performing the required modifications to the existing hardware ourselves, and using a non-customized version of the vendor's control system, the cost of the control system would be minimized.

**ALL OTHER TERMS AND CONSITIONS REMAIN UNCHANGED.**