Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

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.

Title - Sujet System Replacement	
Solicitation No. - N° de l'invitation 5K003-171274/A	**Amendment No. - N° modif.** 002
Client Reference No. - N° de référence du client 5K003-171274	**Date** 2018-01-26
GETS Reference No. - N° de référence de SEAG PW-$WPG-011-10436	
File No. - N° de dossier WPG-7-40150 (011)	**CCC No./N° CCC - FMS No./N° VME**

Solicitation Closes - L'invitation prend fin
at - à **02:00 PM**
on - le **2018-02-02**

Time Zone
Fuseau horaire
Central Standard Time
CST

F.O.B. - F.A.B.
Plant-Usine: ☐ Destination: ☐ Other-Autre: ☑

Address Enquiries to: - Adresser toutes questions à: Palmer, Adele	**Buyer Id - Id de l'acheteur** wpg011
Telephone No. - N° de téléphone (204) 807-6396 ( )	**FAX No. - N° de FAX** (204) 983-7796

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	**Delivery Offered - Livraison proposée**
Vendor/Firm Name and Address **Raison sociale et adresse du fournisseur/de l'entrepreneur**	
Telephone No. - N° de téléphone **Facsimile No. - N° de télécopieur**	

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)

Signature   **Date**

Canada

Solicitation No. - N° de l'invitation	Amd. No. - N° de la modif.	Buyer ID - Id de l'acheteur
5K003-171274/A	002	wpg011
Client Ref. No. - N° de réf. du client	File No. - N° du dossier	CCC No./N° CCC - FMS No./N° VME
5K003-17127	WPG-7-40150	

This amendment 002 to solicitation 5K003-171274/A is hereby raised to answer questions from the industry.

Question 1:
Regarding item 1.2 "AF4 system must be able to operate using only one pump for all flows (inlet, cross, and channel flow)."   Would a system that uses three separate pumps, which we believe provides more precise control over flow rates, and ultimately a better separation/analysis be acceptable?

Response 1:
No, a system that uses three separate pumps is not acceptable. By using only one pump we eliminate extra maintenance, solvent lines, and connections, providing increased reliability. More solvent lines can mean more cleaning time when it comes to shutting down the system. Each line requires cleaning with a solvent that will prevent bacterial growth. Analytical HPLC pumps provide continuous and consistent flow independent of pressure and with no pulsations. Also one analytical HPLC is preferred for all types of sample buffers including detergents which can be troublesome with some pumps.
With one pump versus multiple pumps there is less chance that something will go wrong, and maintenance on one pump will be more cost effective that multiple pumps.

Question 2:
Regarding Item 1.10 "The pressure transducers used to measure the pressure drop must be zero dead volume." I do not believe this is mandatory for an FFF system. Our system includes a pressure transducer that measures the pressure in the FFF channel as mandatory in item 1.9, but it does not need to be zero dead volume since the sample never passes through it. I request that this performance specification be removed from the RFP.

Response 2:
Item 1.10 remains mandatory. The zero dead volume transducer has no internal cavities, which prevent air or contaminants from becoming trapped. This can cause pressure fluctuations and create space for bacteria to grow. Bacterial growth will foul the system and require that the whole system be cleaned. This means that our operation will be interrupted causing delays in our research. The Light scattering detector is very sensitive to large particles that can come from bacterial contamination, making cleanliness a major issues.

Question 3:

Regarding connection to the Astra software: item 2.2 "The software must be able to control and communicate directly with the existing Astra software. This must be done without additional hardware."   Our system is fully compatible with the Astra software, as is hardware from a variety of instrument manufacturers, but will need a small piece of hardware to trigger Astra, which we will include in our bid. Is this acceptable.

Response 3:
Item 2.2 remains mandatory.

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This is absolutely necessary for complete control of the Astra software that we currently use to operate three existing detectors in our laboratory. These detectors, including multiangle laser light scattering detector (MALLS), refractive index detector (RI), and viscosity detector (VD), were acquired recently and are being used with our size exclusion system (HPSEC). These detectors are going to be used with the new field flow fractionation (FFF) system that we are currently acquiring. These detectors are essential components of the new combined system, i.e., HPSEC/FFF-MALLS-RI. The Field-flow fractionation (FFF) software must be able to control the new FFF system and control Astra software. One sample table will be prepared in the new FFF software, along with the running conditions, and the software must be able to communicate with Astra which will collect, evaluate and report the data. This eliminates the need to transcribe sample information from one software manufacturer to another. This seamless data handling ensures that transcription errors by users are avoided provides simplicity, and efficiency to everyday work. This is necessary to perform our research in a timely and cost effective manner. This also avoids problems dealing with the capabilities of the PC operating system when using two different vendor software platform.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME