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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

Scientific, Medical and Photographic Division /
Division de l'équipement scientifique, des produits
photographiques et pharmaceutiques

11 Laurier St./ 11 rue, Laurier

6B1, Place du Portage

Gatineau, Québec K1A 0S5

Title - Sujet Automated Lab Reactor (ALR) system	
Solicitation No. - N° de l'invitation 23240-180380/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client 23240-180380	Date 2017-10-03
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-899-73437	
File No. - N° de dossier pv899.23240-180380	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-10-31	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Gauthier, Martin	Buyer Id - Id de l'acheteur pv899
Telephone No. - N° de téléphone (613) 404-8642 ()	FAX No. - N° de FAX (819) 956-3814
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

Amendment 001 is raised for Questions and Answers:

Question 1:

Good afternoon! I'm working on a quote for your solicitation #: 23240-180380/A. We're trying to design the system with the four liquid feeds, and I'm running into trouble specifying them. Can you share some information about the process that this needs to hold? What kind of reaction is it, and what liquids will be fed into the system?

Answer 1:

The Automated Laboratory Reactor (ALR) system will be used primarily for the synthesis of energetic compounds. It is not possible to disclose the specifics of the anticipated syntheses, however, the reactor may be used to contain a variety of common solvents, acids, bases and reactive chemicals. Various types of reactions, such as organic nitrations, will be conducted in the reactor. A variety of reagents or catalysts may be fed into the system.

Question 2:

Would an HPLC pump be a suitable substitute for syringe pump?

Answer 2:

Yes, an HPLC pump would be an acceptable substitute for a syringe pump provided that the pump is fully controllable by the dedicated control module or system data station.

Question 3:

What would the min/max operating pressures required for the vessel(s) and or pump system?

Answer 3:

The borosilicate glass reactors would be operated at ambient pressure.
The dosing unit would be used to delivery reagent solutions to the reactor. There are no minimum or maximum operating pressure requirements for the dosing unit.

Question 4:

In regards to the "in-situ spectroscopy and particle-size analysis accessories." could you furnish more details of that hardware so that we can verify/investigate the ability to integrate/communicate with said 'in-situ' hardware?

Answer 4:

The Automated Laboratory Reactor (ALR) system must accommodate the use of spectroscopic (e.g. FT-IR) or particle-size analysis (e.g., Focussed Beam Reflectance Measurement) probes that can be inserted into the reaction mass contained within the reactor. The probes would enable the chemical identification of reactants and products, as well as permit the measurement of the particle size distribution of chemical products suspended in the reaction mass. At this time, we do not have mandatory operational specifications for these probes.