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NA

Manitoba

## 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/Réception des soumissions Travaux publics et  
Services gouvernementaux Canada  
Government of Canada Building  
101 - 22nd Street East  
Suite 110  
Saskatoon  
Saskatche  
S7K 0E1

<b>Title - Sujet</b> Solid State Fermentation System Solid State Fermentation System	
<b>Solicitation No. - N° de l'invitation</b> 31029-210706/A	<b>Amendment No. - N° modif.</b> 002
<b>Client Reference No. - N° de référence du client</b> 31029-210706	<b>Date</b> 2020-11-25
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$STN-190-5378	
<b>File No. - N° de dossier</b> WPG-0-43093 (015)	<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> Central Standard Time CST <b>on - le 2020-12-03</b> Heure Normale du Centre HNC	
<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> Klassen, Chaz	<b>Buyer Id - Id de l'acheteur</b> wpg015
<b>Telephone No. - N° de téléphone</b> (204) 297-6920 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> National Research Council Plant Biotechnology Institute 110 Gymnasium Place Saskatoon, SK S7N 0W9	

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>

Solicitation No. – N° de l'invitation  
31029-210706/A

Amd. No – N° de la modif.

001

Buyer ID – Id de l'acheteur

Client Ref. No. – N° de réf. De client  
31029-210706

File No. – N° du dossier

CCC No./ N° CCC – FMS No/ N° VME

This amendment is being raised to address the following questions with regards to solicitation No 31029-210706/A

**Q1. What is the required form factor for the supplied vessel(s)? What material is required?**

A1. The Solid State vessel must be constructed of autoclavable glass, with a head plate constructed of stainless steel. The stainless steel head plate must contain the ports and/or fittings for vessel additions. The stainless steel head plate must contain the mounting point for the impeller shaft and drive motor.

**Q2. What is the quantity of vessels required, and at what maximum working capacity each?**

A2. This procurement is for a single vessel Solid State Fermentation system. The Solid State Fermentation vessel shall have a maximum working volume of 5 Liters.

**Q3. For the gas supply and regulation, confirm that inputs of O2, N2, and air are suitable - and output to 4 individual vessels is required.**

A3. Yes inputs for O2, N2, and Air are required, as well as the ability to supply 4 individual vessels.

**Q4. Please specify reference datums for the required rotation specified in item 7. The system can be designed to include any required degree of freedom.**

A4. The Solid State fermentation vessel will be used as an experimental instrument. Therefore, the degree of rotation required to optimize growth conditions will depend on substrate and bacterial/fungal culture used. The solid state fermentation vessel will also be required to tilt to 120 degrees to assist with vessel content harvest.

**Q5. For sterilization, confirm that holding at 121 deg C is suitable or specify the required sterilization protocol.**

A5. Yes, holding temperature of 121 degrees C is sufficient.

**Q6. Item 9 refers to a liquid pump, which is not compatible with a solid state fermentation system. Confirm that this pump is required? Are other liquid fermentation accessories required such as foam detectors, pH sensors, etc?**

A6. The liquid pump is required to allow the controller to be expandable for liquid fermentation vessels in the future. This procurement is only for a single Solid State fermentation vessel and no liquid fermentation accessories are required at this time.