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Travaux publics et Services gouvernementaux
Canada

Place Bonaventure,
800 rue de la Gauchetière Ouest
Voir aux présentes - See herein
Montréal

Québec
H5A 1L6

FAX pour soumissions: (514) 496-3822

**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

Travaux publics et Services gouvernementaux Canada
Place Bonaventure,
800 rue de la Gauchetière Ouest
Voir aux présentes - See herein
Montréal
Québec
H5A 1L6

Title - Sujet Bioreactor control stations	
Solicitation No. - N° de l'invitation 31241-179474/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client 31241-17-9474	Date 2017-08-16
GETS Reference No. - N° de référence de SEAG PW-SMTA-030-14459	
File No. - N° de dossier MTA-7-40093 (030)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-09-11	
Time Zone Fuseau horaire Heure Avancée de l'Est HAE	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Pommet, Bruno André	Buyer Id - Id de l'acheteur mta030
Telephone No. - N° de téléphone (514) 496-3802 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CONSEIL NATIONAL DE RECHERCHES (PORTES 6 & 7) VIA ENTREE RECEPTION MARCHANDISES H4P 2R2	

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

Please take note of this series of QUESTIONS & RESPONSES (Q&A) regarding this Request for proposal.

Question 1

In regards to option 2 (optionally purchase before December 31, 2018:

- Six pH sensors for single-use vessel (5L total volume)
- Six DO sensors for single-use vessel (5L total volume)

Can you please specify what type of sensor (s) are required?

- pH sensors: Analog or Digital

Answer: Digital Mettler Toledo Intelligent Sensor Management (ISM)

- DO sensors: Polarographic (Analog or Digital) OR Optical (Digital)

Answer: Polarographic Digital Mettler Toledo ISM

Question 2

Given that Section 3.5 of the Mandatory Technical Criteria section indicates that the control station must be able to operate analog or digital or optical pH and DO sensors and that at least one sensor connection must be compatible with Mettler Toledo oxygen sensors and at least one sensor connection must be compatible with Mettler Toledo pH sensors. I am thus assuming this sensor requirement is for DIGITAL sensors (i.e. Intelligent Sensor Management sensors from Mettler Toledo).

Answer: The control stations must be able to operate all 3 types of sensors technology analog, digital and optical as stated in section 3.5. As you pointed out correctly the requirement is for digital (ISM) Mettler Toledo. Analog connections are standard.

Question 3

Also, are the compatible sensor cables also required?

Answer: Yes the cables must be included with the digital sensors in option 2.

Question 4

Requirement 3.6

a) Can you clarify how many pumps your process requires? The bid solicitation says it should be equipped with 4-6 pumps ... this requirement is a bit vague.

Answer: In section 3.6 we must have a minimum of 4 integrated easy load pumps. For base in pH control, addition pump, a spare pump and a 100 rpm pump for medium transfer.

In section 3.7 we need to be able to control external pumps. Not supplied by you. They are used for level control using the load cells for perfusion.

b. Do you really need a 100RPM pumps? This is very fast for benchtop reactors.

Answer: Yes we need a minimum of 1 pump + pump head that can accommodate tubing sizes of 0.8-6.4mm to deliver a maximum flowrate at maximum rotation of 100 RPM. (2-400 ml / min).

Question 5

Requirement 3.11

a. Single use bioreactors cannot accommodate cooling; I propose just requiring that heating requirements are needed (via heat blanket). Adding cooling to a controller adds cost to the controller without the ability to use it on the vessel.

Answer: In section 3.11, we correctly need cooling and heating. Because if you refer to section 3.1: the control stations must be able to operate 5L, 7L- 7.5 L autoclavable glass bioreactors as well single use Bioblu vessels from 5L to 50L.

Question 6

Any additional process details to help guide the controller configuration that you can provide are much appreciated. This will help ensure the systems are best configured to suit your operation requirements.

Answer: As stated the systems will be used in cell culture for batch, fed-batch and perfusion processes. We expect companies with experience in the manufacturing of cell culture controllers to apply.

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.