

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave. Jaspe
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

**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
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Title - Sujet Liquid Handling Systems	
Solicitation No. - N° de l'invitation 6D063-132303/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client PHAC	Date 2013-12-24
GETS Reference No. - N° de référence de SEAG PW-\$EDM-183-10017	
File No. - N° de dossier EDM-3-36256 (183)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-01-15	Time Zone Fuseau horaire Mountain Standard Time MST
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: Tikhonovitch, Alex	Buyer Id - Id de l'acheteur edm183
Telephone No. - N° de téléphone (780) 497-3541 ()	FAX No. - N° de FAX (780) 497-3510
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

This amendment has been raised to respond to the following questions and make the following revisions:

Questions

Question 1: Do both systems need to be the same?

Answer 1: Both systems do not need to be identical but they must meet all the listed requirements including liquid level sensing.

Question 2: Is there a preference for single channel versus multi channel pipetting?

Answer 2: Multi channel pipetting for faster throughput. However, single channel will be acceptable.

Question 3: Are there further definitions for "rapid, high-precision PCR setup"; Do we need to meet certain time restraints for the setups?

Answer 3: We require full 96-well plate PCR set up in under 40 minutes.

Question 4: We would like clarification on the throughput that is required. Annex "A" Requirements, paragraph 3 states that "The second instrument would be located outside of the clean room to use for the preparation of proficiency testing samples for the programs run by the NLHRS. Each panel of over 1000 tubes must be aliquoted for distribution to Canadian and International laboratories." This information doesn't tell us much about the requirements, are you looking to process 1000tubes per day or month or year?

Answer 4: The panel samples have typically been aliquoted twice a year but to save costs on shipping we are evaluating aliquoting and distributing all the samples once a year to save on cost. Each sample is aliquoted to 60 - 500 tubes. These tubes would need to be aliquoted in less than a months time.

Question 5: When will the successful bidder be notified?

Answer 5: If the closing date for the bids is January 8, 2014, it would be likely that the successful bid be notified by late January.

Question 6: Would we be able to have a sample protocol for both master mix preparation and proficiency testing?

Answer 6: Proficiency testing: there is no protocol for this, we begin with a large volume that is aliquoted to smaller tubes (example, 200mL aliquoted as 1.2mL to 160 2.0mL tubes).

Mastermix preparation protocol:

Composition:	Source:
13600 µl ddH2O	bottle
- µl 5X Q-Solution	1mL in a 2.0mL tube
4000 µl 10X PCR Buffer	2mL in a 2.0mL tube

800 µl dNTP Mix 100ul in a 2.0mL tube

800 µl Primer 1 2.0mL tube

800 µl Primer 2 2.0mL tube

20 ml Total

Aliquot size: 1000 µL

Reactions/Aliquot: 20

Question 7: How many samples need to be processed at the same time on the first liquid handler?

Answer 7: Inside the clean room we require the capability to prepare mastermix and distribute to 96 well PCR plates.

We also must be able to prepare stock mastermix and distribute to ~30 2.0mL skirted tubes.

Question 8: How many samples need to be processed at the same time on the second liquid handler?

Answer 8: Outside the clean room the instrument will be used to aliquot plasma. For example, 200mL aliquoted as 1.2mL to 160 2.0mL tubes.

Question 9: What types of sample are you manipulating that would be distributed to other laboratories; DNA, blood, saliva etc...?

Answer 9: Plasma

Question 10: Can you clarify which platform will be used to perform PCR setup; the first or second liquid handler?

Answer 10: The first liquid handler is for PCR set-up

Question 11: How many PCR plates need to be prepared at the same time?

Answer 11: One or two should be sufficient

Question 12: What is the plate format – 96 or 384?

Answer 12: The 96 well plate format is required. The ability for 384 would be an asset but not mandatory.

Question 13: What is the total PCR volume?

Answer 13: The total PCR volume varies but typically ranges from 25ul to 50ul.

Question 14: What is the diameter of PCR tubes?

Answer 14: 2.0mL skirted sarstedt tubes (catalog number 72.694.006).

1.5mL sarstedt tubes (catalog number 72.692.005).

200ul standard PCR tubes and RealTime tubes.

Question 15: Is the requirement to hold over 50 2mL tubes a rigid requirement or we can propose a tube rack that can hold 48 tubes?

Answer 15: 50 tubes minimum

Question 16: What is the size of the tubes?

Answer 16: 2.0mL skirted sarstedt tubes (catalog number 72.694.006).

Question 17: It seems like the specification is not complete "...dispense liquid to" which container? Or is it that the tubes are empty and they will be filled with liquid?

Answer 17: We want to dispense liquid to those "fifty 2mL tubes" from a stock bottle/trough of plasma.

Question 18: " be able to hold a minimum volume of 200mL in a single tube/trough to dispense liquid from". Is it meant to be 200ml in a trough and 200ul in a tube?

Answer 18: Start with plasma in a 200mL bottle/trough and dispense 1.2mL to 2.0mL tubes.

Question 19: Could we propose an alternative solution where liquid level sensing is done non-contact using ultrasound?

Answer 19: No. The system must use conductive filtered tips for liquid-level sensing.

Question 20: How many tubes need to be on the platform at the same time?

Answer 20: Sometimes as many as 160 tubes will need to be aliquoted, other times as few as 25.

Question 21: What is the volume to be transferred?

Answer 21: Volume varies for application.

First liquid handler:

- PCR Mastermix (mmx): See the answer #6.
- PCR preparation: Addition of PCR mmx, Taq and water to PCR tubes. 10-50ul total volume.

Second liquid handler:

- Plasma aliquot: 1.2mL, 0.6mL

Question 22: What are the steps for restriction digests setup?

Answer 22: Standard restriction digest; addition of buffer, restriction enzymes, water and sample to any of the above mentioned tubes.

Solicitation No. - N° de l'invitation

6D063-132303/A

Client Ref. No. - N° de réf. du client

PHAC

Amd. No. - N° de la modif.

001

File No. - N° du dossier

EDM-3-36256

Buyer ID - Id de l'acheteur

edm183

CCC No./N° CCC - FMS No/ N° VME

Revisions

On Page 12 of 14 "Minimum Performance Specifications" Line 1:

Delete:

1	be capable of rapid, high-precision PCR setup;			
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Insert:

1	be capable of rapid, high-precision PCR setup (96-well plate PCR set up in under 40 minutes);			
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REVISED CLOSING DATE TO: 02:00 PM on 2014-01-15

If your bid has already been forwarded and you wish to revise the same, this revision should reach the Bid Receiving Unit identified on Page 1 before the closing date.

All other terms and conditions remain the same.