



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095**

**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

Address inquiries to the Contracting Authority at
Hussain.Noor@pwgsc-tpsgc.gc.ca

**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
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Title - Sujet Plasma Mass Spectrometer	
Solicitation No. - N° de l'invitation KW405-190405/A	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client KW405-190405	Date 2019-01-17
GETS Reference No. - N° de référence de SEAG PW-\$TOR-007-7677	
File No. - N° de dossier TOR-8-41115 (007)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-01-28	
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: Noor, Hussain	Buyer Id - Id de l'acheteur tor007
Telephone No. - N° de téléphone (905) 615-2077 ()	FAX No. - N° de FAX () -
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

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001
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Buyer ID - Id de l'acheteur
TOR007
CCC No./N° CCC - FMS No./N° VME

Solicitation Amendment No. 001 is raised to answer questions from the industry and make changes to the solicitation.

At: Part 6 – RESULTING CONTRACT CLAUSES, 6.3.2 Supplemental General Conditions

Delete: 4004 (2013-04-25), Maintenance and Support Services for Licensed Software, apply to and form part of the Contract

Insert: 4004 (2013-04-25), Maintenance and Support Services for Licensed Software, 4004 02, 3. (2008-05-12) Software Error Correction Services,

Unless provided otherwise in the Contract, the Contractor must use reasonable efforts to correct Software Errors as follows:

"Severity 1":
within seventy-two (72) hours of notification by Canada;

"Severity 2":
within seven days (7) days of notification by Canada;

"Severity 3":
within fourteen (14) days of notification by Canada;

"Severity 4":
within ninety (90) days of notification by Canada.

Questions and Answers

Question # 1: In Section 4.1.1.2 Point Rated Technical Criteria, is it expected to use the standard sample introduction system to generate this data or the use of an Apex Desolvation System (or equivalent) acceptable to be added on?

Answer # 1: Bidders must use the Standard Sample Introduction to reflect the requested set up in the RFP. It is acknowledged that an Apex Desolvation System is a possible option for an ICP-MS, but it is not part of the requirements. Please do not use any sample pre-concentration systems, such as the Apex to generate the data.

Question # 2: In Section 4.1.1.2 Point Rated Technical Criteria, items 8 through 15 where sensitivity cps data is required for specific analytes, should blank values be provided as well so blank subtracted counts can be calculated?

Answer # 2: Yes providing blank values will be appreciated.

Question # 3: With respect to section 6.4.2 Delivery Date, please confirm whether training and invoicing is also required prior to March 29, 2019 or if just delivery and installation is required?

Answer # 3: Delivery and Installation must be completed by March 29, 2019, and invoice must be provided with it. Training, if requested through a Contract Amendment must be completed by March 29, 2019 as well.

Question # 4: 4.1.1.2 Point Rated Technical Criteria – Item # 2: This is specification in a single quad standard mode which is not indicative of the true analytical performance of an ICP MS MS. We request this specification be removed as the true analytical performance with a real-world sample of abundance sensitivity is demonstrated below in section 9 – false positive signal on SO caused by presence of a large amount of P.

Answer # 4: It is acknowledged that abundance sensitivity single quad mode would have little meaning as stated, but request is for abundance sensitivity in MS/MS mode, not single quad mode. The abundance sensitivity of the instrument in MS/MS mode is critical to assess the efficiency of the entire MS/MS system, including the quadrupole and vacuum components. It will also help determine how well a system will be able to handle the various matrices that are analyzed on a regular basis from across Canada.

Question # 5: 4.1.1.2 Point Rated Technical Criteria – Item # 3, 4 & 5: We acknowledge detection sensitivity is a viable tool to characterize an instrument's performance, but achievable detection limits are more related to the daily tasks in a laboratory. Therefore we suggest the specification changed to true instrument detection limits.

For Item # 3

- Li(7) IDL lower than or equal to 2.0 ppt (60 pts)
- Li(7) IDL between 4 ppt and 2.1 ppt (40 pts)
- Li(7) IDL between 4.1 ppt and 6.0 ppt (20 pts)
- Li(7) IDL between 6.1 ppt and 8.0 ppt (10 pts)

These must be demonstrated at install.

For Item # 4

- In (115) IDL lower than or equal to 0.10 ppt (60 pts)
- In (115) IDL between .11 ppt and .20 ppt (40 pts)
- In (115) IDL between .21 ppt and .40 ppt (30 pts)
- In (115) IDL between .41 ppt and .60 ppt (10 pts)

These must be demonstrated at install.

For Item # 5

- U (238) IDL lower than or equal to 0.03 ppt (60 pts)
- U (238) IDL between .04 ppt and .09 ppt (40 pts)
- U (238) IDL between .10 ppt and .20 ppt (20 pts)
- U (238) IDL between .21 ppt and .60 ppt (10 pts)

Answer # 5: These three items assess the sensitivity of the analytical instrument. It is agreed with the vendor that method detection limits (MDLs) are related to the daily tasks in the laboratory. It is suggested to assess instrument detection limits (IDLs) instead of sensitivity. IDLs are affected by 6 main variables including (1) background noise (2) abundance sensitivity, (3) sensitivity, (4) integration time, (5) oxide level and (6) double charged interferences. The technical evaluation assesses 5 of these 6, independent of integration time. It is critical to assess each variable independently to get a true measure of an instrument's capability. It is especially important that the assessed criteria are independent of integration time as this is the user defined variable which can affect the reported IDL. Lower IDLs can be achieved by the user significantly increasing the integration time. As a production lab, an instrument is needed which can perform the daily tasks as efficiently as possible while still meeting the data quality objectives.

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The vendor suggested ranges are appreciated for the IDL assessment, but it should be noted that the “best case” levels are higher (2-6 times) than the current instrument capabilities. The requirement is for an instrument to either meet the current level of service or better it.

ALL OTHER TERMS AND CONDITIONS OF THE BID SOLICITATION REMAIN UNCHANGED