



**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

**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 Spectrophotometer	
Solicitation No. - N° de l'invitation KW405-180727/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client KW405-180727	Date 2018-01-17
GETS Reference No. - N° de référence de SEAG PW-\$TOR-015-7429	
File No. - N° de dossier TOR-7-40117 (015)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-26	
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: Abela, Aaron	Buyer Id - Id de l'acheteur tor015
Telephone No. - N° de téléphone (905) 615-2061 ()	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

Solicitation No. - N° de l'invitation
KW405-180727/A
Client Ref. No. - N° de réf. du client
KW405-180727

Amd. No. - N° de la modif.
002
File No. - N° du dossier
TOR-7-40117

Buyer ID - Id de l'acheteur
tor015
CCC No./N° CCC - FMS No./N° VME

Solicitation Amendment No. 002 is being issued to address the following:

- A) Question and Answer**
- B) Amend Annex A – Requirement**
- C) Amend Annex D – Evaluation Criteria**

Q1: In regards to Annex A (Requirement), Section 2.1.1, Item 3 - A system that collects the Sample, Reference, and Dark signals, and then the gratings moves on the next non-measurement spin of the chopper?

- This design is a significant improvement over non measurement phase stepping technology (grating moves during dark signal), in that the readings for all photometric components are recorded while the gratings are truly stationary.

A1: Yes this would be acceptable. This requirement has been removed from the spec sheet. See below for further information.

Q2: In regards to Annex D (Evaluation Criteria), Item 1.3 - A system that collects the Sample, Reference, and Dark signals, and then the gratings moves on the next non-measurement spin of the chopper?

- This design is a significant improvement over non measurement phase stepping technology (grating moves during dark signal), in that the readings for all photometric components are recorded while the gratings are truly stationary.

A2: See response in A1 above and see below for further information.

Q3: In regards to Annex A (Requirement), Section 2.1.1, Item 5 - A true double beam monochromater rather than pre-monochromater?

- Superior ultra-low stray light capability with true double monochromater. A pre-monochromater was only offered in previous generation of our lower end instrumentation.

A3: Yes this would be acceptable – this requirement has been amended. Please see below.

Q4: In regards to Annex D (Evaluation Criteria), Item 1.5 - A true double beam monochromater rather than pre-monochromater?

- Superior ultra-low stray light capability with true double monochromater. A pre-monochromater was only offered in previous generation of our lower end instrumentation.

A4: See response in A1 above and see below for further information.

Q5: In regards to Annex A (Requirement), Section 2.1.1, Item 7 - A 100 mm sphere rather than a 70 mm (we don't carry a 70 mm)?

- Superior performance from 100mm integrating sphere with industry leading 3% port fraction and internal baffling to remove spectral artifacts. 70mm spheres have port fractions of up to 9% and cannot satisfy many ASTM methods.

Solicitation No. - N° de l'invitation
KW405-180727/A
Client Ref. No. - N° de réf. du client
KW405-180727

Amd. No. - N° de la modif.
002
File No. - N° du dossier
TOR-7-40117

Buyer ID - Id de l'acheteur
tor015
CCC No./N° CCC - FMS No./N° VME

A5: Yes this would be acceptable. Preference is for 100mm, with the ideal solution being 100-150mm, but this is not a mandatory requirement. We would accept 70mm otherwise as a minimum mandatory requirement. The requirement has been amended. Please see below. Note: Bidders can submit multiple bid proposals if they would like to offer more than one Spectrophotometer system.

Q6: In regards to Annex D (Evaluation Criteria), Item 1.7 - A 100 mm sphere rather than a 70 mm (we don't carry a 70 mm)?

- Superior performance from 100mm integrating sphere with industry leading 3% port fraction and internal baffling to remove spectral artifacts. 70mm spheres have port fractions of up to 9% and cannot satisfy many ASTM methods.

A6: See response in A1 above and see below for further information.

B) At Annex A – Evaluation Criteria

Delete in its entirety;

Insert:

ANNEX "A"

REQUIREMENT

1 Requirement

For our research application measuring the optical properties of natural waters Environment and Climate Change Canada's Watershed Hydrology and Ecology Research Division (WHERD) requires the supply, delivery, and installation of one (1) complete UV VIS Spectrophotometer. The system must be a double beam scanning instrument (covering the spectral range 300 to 800nm at a minimum) incorporating a single PMT detector for the larger dynamic range capability. The instrument must have excellent stray light rejection and be able to read accurately at least 5 Abs and contain an integrating sphere attachment for measurements of absorption on highly scattering media.

2 Specifications:

General Instrument Design:

The UV Vis Spectrophotometer must be a double beam, dual chopper, UV-Vis scanning spectrophotometer covering the spectral range 300-800nm, with an added integrating sphere, and centrally controlled by a PC.

2.1.1 Minimum Mandatory Specification Requirements

The complete UV Vis Spectrophotometer System must have each of the following mandatory specifications:

1. The instrument must be a true Double Beam Spectrophotometer system with One (1) UV and one VIS source, with a channel for sample and channel for reference and one PMT detector.
2. The instrument must be linear and be guaranteed to read up to 5 Abs.
3. Sample, reference, (and if possible, dark current) signals must be measured while grating is stationary
4. The optical bench must be a single cast piece

Solicitation No. - N° de l'invitation
KW405-180727/A
Client Ref. No. - N° de réf. du client
KW405-180727

Amd. No. - N° de la modif.
002
File No. - N° du dossier
TOR-7-40117

Buyer ID - Id de l'acheteur
tor015
CCC No./N° CCC - FMS No./N° VME

5. Must offer enhanced stray light rejection (as provided by a pre-monochromator or true double beam monochromator).
6. Must have high speed accurate scanning of at least 3000 nm/ minute
7. Must include an integrating sphere diffuse reflectance accessory (at least 70mm) for the measurement of absorbance of highly scattering media on glass-fiber filters
8. Must be centrally controlled by a PC

3. **Delivery Address:**

All deliverables must be delivered and installed by the Contractor to the following address:

Canada Centre for Inland Waters - Environment and Climate Change Canada
867 Lakeshore Road, Burlington, Ontario.
L7S1A1

4. **Other Requirements:**

4.1 The Contractor must install the Spectrophotometer on site and configure the apparatus (to ensure that it is in proper working order). The installation must be completed by a manufacturer certified engineer. The Contractor must provide a walk-through of the instrument setup during the installation and is responsible for providing labour and covering own travel expenses.

4.2. The Contractor must provide a minimum of ½ day of training on site, for 3 operators, in the use and maintenance of the Spectrophotometer for Environment and Climate Change Canada, located at the location specified in Section 3 – Delivery address, above.

4.3 The Contractor must provide in English complete and current user documentation for the delivered Spectrophotometer, including all technical reference manuals and user and maintenance guides of the original equipment manufacturer in both hard copy and electronic PDF format.

4.4 The Contractor must provide technical support response within 24 hours to address instrument concerns and minimum instrument down time in case of equipment malfunction or operational questions or technical support during the warranty period.

5. **Optional Warranty Requirement:**

In addition to the minimum standard Original Equipment Manufacturer (OEM) warranty including, but not limited to parts, labour and manufacturer defects, pricing and details, the Contractor must provide the option for four (4) one (1) year extended warranty coverage and must include the same coverage in the OEM warranty and technical support indicated in Section 4 - Other Requirements, Item 4.4 above.

C) At Annex D – Evaluation Criteria

Delete in its entirety;

Insert:

ANNEX “D”

Solicitation No. - N° de l'invitation
 KW405-180727/A
 Client Ref. No. - N° de réf. du client
 KW405-180727

Amd. No. - N° de la modif.
 002
 File No. - N° du dossier
 TOR-7-40117

Buyer ID - Id de l'acheteur
 tor015
 CCC No./N° CCC - FMS No./N° VME

EVALUATION CRITERIA

1. Bidders must clearly demonstrate compliance with each mandatory technical criteria. Failure to demonstrate compliance will result in the offer being deemed non-responsive, and be given no further consideration.
2. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements detailed herein.
3. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.

Requirement	Manufacturer Offered	Model number offered#
Spectrophotometer		

Item #	Performance Specification	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents.
1.1	The instrument must be a true Double Beam Spectrophotometer System with One (1) UV and one Vis source, with a channel for sample and channel for reference and one PMT detector.	
1.2	The instrument must be linear and be <i>guaranteed</i> to read up to 5 Abs	
1.3	Sample, reference, (and if possible, dark current) signals must be measured while grating is stationary	
1.4	The optical bench must be a single cast piece	
1.5	Must have a pre-monochromator or true double beam monochromator for enhanced stray light rejection	
1.6	Must have High speed accurate scanning of at least 3000 nm/minute	
1.7	Must include a minimum 70 mm diffuse reflectance accessory	
1.8	Must be centrally controlled by a PC Controller	

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME