Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

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

**Bid Receiving**
**PWGSC**
**33 City Centre Drive**
**Suite 480**
**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**

| | |
|---|---|
| **Title - Sujet**<br>Ka-Band Radar | |
| **Solicitation No. - N° de l'invitation**<br>KM175-131119/A | **Amendment No. - N° modif.**<br>003 |
| **Client Reference No. - N° de référence du client**<br>KM175-131119 | **Date**<br>2014-06-26 |
| **GETS Reference No. - N° de référence de SEAG**<br>PW-$TOR-015-6597 | |
| **File No. - N° de dossier**<br>TOR-3-36173 (015) | **CCC No./N° CCC - FMS No./N° VME** |
| **Solicitation Closes - L'invitation prend fin**<br>**at - à 02:00 PM**<br>**on - le 2014-06-30** | **Time Zone**<br>**Fuseau horaire**<br>Eastern Daylight Saving Time EDT |
| **F.O.B. - F.A.B.**<br>**Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐ | |
| **Address Enquiries to: - Adresser toutes questions à:**<br>Abela, Aaron | **Buyer Id - Id de l'acheteur**<br>tor015 |
| **Telephone No. - N° de téléphone**<br>(905) 615-2061 ( ) | **FAX No. - N° de FAX**<br>(905) 615-2060 |
| **Destination - of Goods, Services, and Construction:**<br>**Destination - des biens, services et construction:** | |

**Vendor/Firm Name and Address**
**Raison sociale et adresse du fournisseur/de l'entrepreneur**

**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**

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

Canada

See attached...

**Solicitation Amendment No. 003 is being issued to address:**

**A) Amend Annex "A" Requirement, Section 4, System Performance must meet the following specifications**
**B) Amend Annex "B" Basis of Payment, Section 7**
**C) Amend Annex "D" Evaluation Criteria, Section 1 System Performance must meet the following specifications**
**D) Questions & Answers**

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**A) At Annex "A" Requirement, Section 4, System Performance must meet the following specifications**

Delete in its entirety;

Item 3: Must have a duty cycle of 1:500

**----------**

**B) At Annex "B" Basis of Payment, Section 7**

Delete in its entirety;

Insert:

| | | | |
|---|---|---|---|
| 7. | - Magnétron de rechange or Solid State Transmitter<br><br>Marque: _____ Modele: _____<br><br>Date de livraison: _____ | 1 unité | _____$ |

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**C) At Annex "D" Evaluation Criteria, Section 1 System Performance must meet the following specifications**

Delete in its entirety;

Item 3: Must have a duty cycle of 1:500

**----------**

**D) Questions & Answers**

**Q1:** Under Annex "A" Requirement and Annex "D" Evaluation Criteria, System Performance, Item 1 is stated, " Must have a range resolution minimum 60 m."

Is the range resolution derived from the 3 dB points of the effective range window or is it derived from the integrated range window. If the latter, what points in the range window is the integration performed over (e.g. -10 dB points)?

**A1**: It is not clear what the vendor means by "effective" and "integrated" range windows and so difficult to respond.

The assumption is that “integrated range window” implies that the bidder will be doing integration in range so that the number of independent samples is increased to produce data with low variance.

How the 60 m should be achieved was purposely not specified – that is, we did not tie it to the data quality. We presumed that slow azimuthal scanning could be performed to achieve the requisite number of independent samples to achieve good data quality.

3dB points is traditional way of defining azimuthal and range beam widths. So, yes to this.

***Note to Bidder**** To due lack of response pertaining to request for clarification of question from bidder, EC has tried to answer the question received to the best of their ability.

**Q2:** Under Annex “A” Requirement and Annex “D” Evaluation Criteria, System Performance, Item 2 is stated, “Must be able to detect distributed targets at minimum of -60 dBZ at a range of 1 km and at a range resolution of 60m”.

(a) Is this the single pulse minimum detectable reflectivity factor or does it assume some non-coherent integration (e.g. 100 profiles)?

(b) If non-coherent integration is assumed, how many profiles are assumed averaged or what is the dwell time? Is uncertainty caused by fading included or is this number based solely on signal to thermal noise performance?

(c) Is uncertainty caused by fading included or is this number based solely on signal to thermal noise performance?

**A2:**

(a+b) It assumes non-coherent integration. Integrate as long as you need.

(c) Meant to be solely based on signal to thermal noise.

***Note to Bidder**** To due lack of response pertaining to request for clarification of question from bidder, EC has tried to answer the question received to the best of their ability.

**Q3:** Under Annex “A” Requirement and Annex “D” Evaluation Criteria, System Performance, Item 3 is stated, "Must have a duty cycle of 1:500."

This specification and the requirement for a spare magnetron implies the system must be a magnetron based system. Is this a requirement or is a solid-state transmitter system that meets the sensitivity requirement acceptable? Can a pulse compression system be used?

**A3:** The presumption was that only a magnetron based system could achieve the performance that I was looking for. However, anything that could achieve the sensitivity is fine including Solid State technology and pulse compression. Please see changes above.

***Note to Bidder**** To due lack of response pertaining to request for clarification of question from bidder, EC has tried to answer the question received to the best of their ability.

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**