

**SOLICITATION AMENDMENT /
MODIFICATION DE L'INVITATION**

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

Director Services Contracting 4 (D Svcs C 4)
Attention: Ashley Ratnam, Procurement Specialist
By e-mail to:
DSvcsC4Contracting-DCSvcs4Contrats@forces.gc.ca

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

**THIS DOCUMENT DOES NOT CONTAIN A
SECURITY REQUIREMENT**

**CE DOCUMENT NE CONTIENT
AUCUNE EXIGENCE EN MATIÈRE DE
SÉCURITÉ**

<p>Solicitation Closes / L'invitation prend fin:</p> <p>At / à : 02:00 PM EST</p> <p>On / le : 10-Jan-2022</p>

Title / Titre Two (2) 20-channel Programmable Attenuators	
Solicitation No. / N° de l'invitation W6369-22-X031	Amendment No. / N° de la modification 01
Date of Amendment / Date de la modification 11 December 2022	
Address Enquiries to / Adresser toutes questions à: Ashley Ratnam by email to: ashley.ratnam@forces.gc.ca	
Telephone No. / N° de téléphone 343-572-6941	FAX No. / N° de fax
Destination National Defence Headquarters 101 Colonel By Drive Ottawa, Ontario K1A 0K2	

Instructions: Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

Instructions : Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Delivery Required / Livraison exigée	Delivery Offered / Livraison proposée
Vendor Name and Address / Raison sociale et adresse du fournisseur	
Name and title of person authorized to sign on behalf of vendor (type or print) / Nom et titre de la personne autorisée à signer au nom du fournisseur (caractère d'imprimerie)	
Name – Nom _____ Title – Titre _____	
Signature _____ Date _____	

AMENDMENT 01 TO SOLICITATION NUMBER W6369-22-X031 IS RAISED TO:

1. Provide clarification and answers to questions from potential suppliers;
2. Amend the solicitation to clarify Annex “A” – Statement of Requirement; and
3. Extend the solicitation closing date by three (3) weeks from 20 December, 2021 14:00 Eastern Standard Time (EST) to 10 January, 2022 14:00 Eastern Standard Time (EST).

QUESTIONS AND ANSWERS:

Number	Questions/Answers/Amendments
Question 1:	Is there a requirement regarding the physical location of the SMA connectors? They are typically located on the front-panel only, the rear-panel only, or with channel inputs on the front panel, and outputs on the rear panel. This is known as a “thru” configuration.
Answer 1:	There is no requirement regarding the physical location of the SMA connectors.
Question 2:	Is there an acceptable minimum attenuation value? For example, all variable/programmable attenuators will have at least some fixed value of attenuation, even in their minimum settings. This has a direct bearing on what type of attenuator technology can be used in the system-level products that we will quote (electromechanical versus solid-state). It is the acceptable range of the fixed attenuation when in minimum setting, that we are asking about. This can range from a fraction of a dB up to several dB, depending on the implementation.
Answer 2:	Yes there is an acceptable minimum attenuation value. Please refer to Annex “A”, Statement of Requirement, Articles 5.1.f.
Question 3:	The requirement is for each channel to be a 90dB programmable attenuator with 0.5dB step-size. Is acceptable to provide a 95dB attenuator, with 0.5dB step size? This would exceed the specification requirements, and our assumption is that this would be acceptable.
Answer 3:	Yes, a 95dB attenuator, with 0.5dB step size is acceptable. Please refer to Annex “A”, Statement of Requirement, Articles 5.1.f.
Question 4:	Though not part of the RFP, will the Technical Authority be requiring RF cables to connect everything together?
Answer 4:	No.

Number	Questions/Answers/Amendments
Question 5:	The high channel-count (20) creates a degree of mechanical congestion, both in the build of the attenuator systems, but also for the end-user who has to physically connect each of the 40 SMA connectors. We would typically propose 2 x 10-channel rack-mount systems instead of 20-channel systems (so 4 x 10-channel to provide the same capability as 2 x 20-channel) – this is overall easier to install, and is transparent to the user from a control standpoint. Is this an acceptable option?
Answer 5:	Yes this is an acceptable option. Please refer to Annex “A”, Statement of Requirement, Articles 5.1.1
Question 6:	Our supplier can provide a 24 channel attenuator which is exactly the same except the number of channels. Is this an acceptable option?
Answer 6:	Yes this is an acceptable option. Please refer to Annex “A”, Statement of Requirement, Articles 5.1.1

SOLICITATION NUMBER W6369-22-X031 IS HEREBY AMENDED AS FOLLOWS:

1. DELETE Annex “A” – Statement of Requirement, and REPLACE with the following:

ANNEX "A" STATEMENT OF REQUIREMENT

1. TITLE

Two (2) 20-Channel Programmable Attenuators

2. BACKGROUND

The Department of national Defence (DND), specifically the Defence Research and Development Canada (DRDC) intends to acquire two (2) 20-Channel Programmable Attenuators. These items are for use in the Naval Information Warfare Systems Command (NAVWAR) anechoic chamber facility for testing Global Positioning System (GPS) Receivers.

3. ACRONYMS

2U Rack mount height 2 x 1.75”
4U Rack mount height 4 x 1.75”
dB Decibel
dBm Decibel milliwatts
DRDC Defence Research and Development Canada
GHz Gigahertz
GPS Global Positioning System
SMA Sub-Miniature Version A
SOR Statement of Requirement
TA Technical Authority
NAVWAR Naval Information Warfare Systems Command

4. REQUIREMENTS

4.1 Scope of Work

The contractor must supply and deliver 20-channel programmable attenuators as per the specifications in Section 6 and in the quantities listed in Section 4.2 and also Annex “B”, Basis of Payment.

4.2 Deliverables

Number	Description of the Deliverables	Quantity and Format
1	20-channel programmable attenuator	2 units

5. SPECIFICATIONS

5.1 The 20-channel programmable attenuator must satisfy the following specifications:

- a) Frequency range of 1 to 3 GHz
- b) Input operating power level +20 dBm
- c) Ethernet connection and controlling software
- d) 20 attenuator channels with SMA Connectors (equivalent 2x10 channels each)
- e) Independently controlled channels
- f) 3-95 dB attenuation in .5 dB steps
- g) Rack Mountable in a 19 inch chassis 2U or 4U housing

5.1.1 The following alternate channel configurations are acceptable as long as the unit(s) fall within the specifications as outlined in Annex A Section 5.1

- a) Two (2) 24-channel attenuators instead of the requested two (2) 20-channel attenuators; or
- b) Four (4) 10-channel attenuators instead of the requested two (2) 20-channel attenuators.

6. LANGUAGE OF WORK

English

7. DELIVERY LOCATION

Defence Research and Development Canada – Ottawa Research Centre
3701 Carling Ave
Ottawa, ON
K1A 0Z4
Canada

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.