



National Defence

Défense nationale

National Defence Headquarters
Ottawa, Ontario
K1A 0K2Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2**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 Officer
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 – Commenataires**THIS DOCUMENT DOES NOT CONTAIN A
SECURITY REQUIREMENT****CE DOCUMENT NE CONTIENT
AUCUNE EXIGENCE EN MATIÈRE DE
SÉCURITÉ**Solicitation Closes /
L'invitation prend fin:

At / à : 02:00 PM EST

On / le : **29 May 2023**

Title / Titre PORTABLE KU BAND SATELLITE ANTENNA SYSTEM	
Solicitation No. / N° de l'invitation W6369-23-X035	Amendment No. / N° de la modification 02
Date of Amendment / Date de la modification 15 April 2023	
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, ON 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 02 TO SOLICITATION NUMBER W6369-23-X035 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. Amend Appendix A to Annex "A", Mandatory Evaluation Criteria.

QUESTIONS AND ANSWERS:

Number	Questions/Answers/Amendments
Question 1:	Will the Government accept 60cm antenna?
Answer 1:	Yes. Please refer to Annex "A", Statement of Requirement, Articles 5.1
Question 2:	Does the Government need manual or automated antenna system?
Answer 2:	Please refer to Annex "A", Statement of Requirement, Articles 5.1
Question 3:	Section 5.2 lists high precision 10MHz reference (if applicable). What exactly does that mean? The LNB spec requires an external reference. Typically, the modem supplies power and 10MHz reference to the LNB. There is no mention of a modem in the requirements. Does the modem require the high precision reference?
Answer 3:	No modem required.
Question 4:	There's no mention of whether the BUC can/should have an internal reference or an external reference. What's the reference requirement for the BUC?
Answer 4:	Please refer to Annex "A", Statement of Requirement, Articles 5.1
Question 5:	There's a 50ft. length requirement for "all necessary wiring and cabling". Is this the coax cable between the modem and BUC/LNB? If so, what kind of connectors are on the modem?
Answer 5:	SMA female connector on the modem.

SOLICITATION NUMBER W6369-23-X035 IS HEREBY AMENDED AS FOLLOWS:

1. DELETE Annex "A" – Statement of Requirement section 5.1 in its ENTIRTY, and REPLACE with the following:

5.1 Ku Band Satellite Antenna System

Required quantity: 1

The Contractor must provide the requirement with the following specifications:

Specifications	Value
Antenna size	Between 60 – 100 cm
System weight	Required: Less than 100 lbs (45 kg) Preferred: less than 60 lbs (27 kg)
Advertised setup time	Required: Less than 45 minutes Preferred: Less than 20 minutes
Pointing mechanism	Manual (can be computer or instrument assisted, but not 'automated')
Electrical:	
Frequency band operation	Ku
Rx frequency: low end	10.7 GHz or less
Rx frequency: high end	12.2 GHz or higher
Tx frequency: low end	13.75 or less
Tx frequency: high end	14.5 or higher
Polarization:	Linear
Cross-polarization isolation	30 dB or higher
G/T (mid-band)	15 dB/K or higher
Gain (mid-band) – Rx and Tx	35 dBi or higher
Environmental:	
Temperature (operational)	Min: -25 C or lower Max: 35 C or higher
Rainfall (operational)	15 mm/h or higher
Windspeed (operational)	50 km/h or higher
LNB:	
Timing /reference signal	External 10 MHz reference
Noise figure	0.8 dB or less
BUC:	
Wattage	8 watts or higher
Reference	External, 10 MHz

These requirements are met with the ROVER antenna system (with the appropriate LNB: 1008XEN and BUC: ELMTBKU008-EN selected) by Norsat International or the 0.75m 0715 Ultra-light Manual Flyaway antenna system by AvL Technologies. These requirements may be met by the EXPLORER 3100 Ku antenna system by Cobham, if the LNB accepts an external 10 MHz reference. Other antenna systems are possible.

2. DELETE Appendix A to ANNEX “A”, Mandatory Evaluation Criteria in its ENTIRTY, and REPLACE with the following:

Appendix A to ANNEX “A”, MANDATORY EVALUATION CRITERIA

Bidders must demonstrate they meet all of the following mandatory criteria. Failure to meet all of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

#	REQUIREMENT	MET	NOT MET
Antenna Size	Between 63 – 100 cm		
System weight	Required: Less than 100 lbs (45 kg) Preferred: less than 60 lbs (27 kg)		
Advertised setup time	Required: Less than 45 minutes Preferred: Less than 20 minutes		
Pointing mechanism	Manual (can be computer or instrument assisted, but not 'automated')		
Frequency band operation	Ku		
Rx frequency: low end	10.7 GHz or less		
Rx frequency: high end	12.2 GHz or higher		
Tx frequency: low end	13.75 or less		
Tx frequency: high end	14.5 or higher		
Polarization	Linear		
Cross-polarization isolation	30 dB or higher		
G/T (mid-band)	15 dB/K or higher		
Gain (mid-band) – Rx and Tx	35 dBi or higher		
Temperature (operational)	Min: -25 C or lower Max: 35 C or higher		
Rainfall (operational)	15 mm/h or higher		
Windspeed (operational)	50 km/h or higher		
Timing /reference signal	External 10 MHz reference		
Noise figure	0.8 dB or less		
Wattage	8 watts or higher		
Reference	External, 10 MHz		

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.