



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](mailto: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**

<b>Title / Titre</b> PORTABLE KU BAND SATELLITE ANTENNA SYSTEM	
<b>Solicitation No. / N° de l'invitation</b> W6369-23-X035	<b>Amendment No. / N° de la modification</b> 04
<b>Date of Amendment / Date de la modification</b> 15 May 2023	
<b>Address Enquiries to / Adresser toutes questions à:</b> Ashley Ratnam by email to: <a href="mailto:Ashley.ratnam@forces.gc.ca">Ashley.ratnam@forces.gc.ca</a>	
<b>Telephone No. / N° de téléphone</b> 343-572-6941	<b>FAX No. / N° de fax</b>
<b>Destination</b>  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.**

<b>Delivery Required / Livraison exigée</b>	<b>Delivery Offered / Livraison proposée</b>
<b>Vendor Name and Address / Raison sociale et adresse du fournisseur</b>	
<b>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)</b>	
Name – Nom _____ Title – Titre _____	
Signature _____ Date _____	

**AMENDMENT 04 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:**

<b>Number</b>	<b>Questions/Answers/Amendments</b>
Question 11	Is there a requirement for the terminal's color?
Answer 11:	No color requirement.
Question 12:	Do they require man packs or just airplane checkable suitcases?
Answer 12:	Please refer to Annex "A", Statement of Requirement, Articles 5.2
Question 13:	The 1008XEN (10.95 - 12.75 GHz) LNB was selected by the customer. That LNB does not actually comply with what is on their Compliance Matrix(CM) (10.7-12.2 GHz) – as such, we also propose an alternative dual output LNB 1008DXN-1 that will comply with what's on the CM. We also have other dual band LNBs that we can propose as well. Please discuss with the customer to confirm what it is that they will be needing. Dual LNBs are actually more expensive, but customer may be OK with 1008XEN. In that case they need to update the CM requirements.
Answer 13:	Please refer to Annex "A", Statement of Requirement, Articles 5.1
Question 14:	Regarding System weight Required: Less than 100 lbs (45 kg), Preferred: less than 60 lbs (27 kg):  Please note that the system we are offering weighs as follows: <ul style="list-style-type: none"> <li>• Assembled system weight (including BUC and LNB): 26.4 kg</li> <li>• The system is packed into 2 cases: Case 1 65 x 50 x 39 (cm) 27.4 kg Case 2 137 x 42 x 16 (cm) 22.7 kg</li> </ul> It does not include the weight of the satellite pointing tool kit yet which is about 2.0 – 2.5 kg. Please advise if this would be an issue?
Answer 14:	Please refer to Annex "A", Statement of Requirement, Articles 5.1

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

1. DELETE Annex "A" – Statement of Requirement section 5.1 and section 5.2 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:

<b>Specifications</b>	<b>Value</b>
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')
<b>Electrical:</b>	
Frequency band operation	Ku
Rx frequency: low end	11 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
<b>Environmental:</b>	
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
<b>LNB:</b>	
Timing /reference signal	External 10 MHz reference
Noise figure	0.8 dB or less
<b>BUC:</b>	
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.

**5.2 Accessories**

The Contractor must provide the following accessories for Requirement 5.1 (if not already included with the antenna system):

Description	Required quantity
Carrying case(s) appropriate for packing the system for commercial flight. Case(s) should be rigid to ensure system integrity through baggage handling on commercial flights. It is not required that the carrying case(s) be worn as a backpack	1
Manual pointing assist tools (software or hardware, as applicable)	1
All necessary wiring and cabling, lengths greater than 50 feet preferred	1
Anchoring system	1
High precision 10 MHz frequency reference (if applicable)	1

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	11 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		

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#	REQUIREMENT	MET	NOT MET
Reference	External, 10 MHz		

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