



National Defence

Défense nationale

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

RETURN BIDS TO: RETOURNER LES SOUMISSIONS À:

Director Services Contracting 4 (D Svcs C 4)
Attention: Daniella Markov
By e-mail to:
DSvcsC4Contracting-DCSvcs4Contrats@forces.gc.ca

Proposal To: National Defence Canada

We hereby offer to sell to His Majesty the King in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods and services listed herein and on any attached sheets at the price(s) set out therefore.

Proposition à: Défense nationale Canada

Nous offrons par la présente de vendre à Sa Majesté le Roi du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens et services énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments – Commentaires

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:
2:00 PM Eastern Daylight Time (EDT)
On: – le :
Tuesday April 11, 2023

Title – Titre Portable Ku Band Satellite Antenna System	Solicitation No. – N° de l'invitation W6369-23-X035
Date of Solicitation – Date de l'invitation March 03, 2023	
Address Enquiries to: – Adresser toutes questions à: Daniella Markov by e-mail to/par courriel au daniella.markov@forces.gc.ca	
Telephone No. – N° de téléphone	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 Date to be specified in the resulting Contract	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 _____

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with this bid solicitation.

1.2 Statement of Requirement

The Contractor must provide the items as detailed in the Statement of Requirement at Annex "A".

1.3 Debriefings.

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) ([2022-03-29](#)) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

- (a) Section 02, Procurement Business Number, is deleted in its entirety.
- (b) In section 05, Submission of bids, subsection 2.d) is deleted in its entirety and replaced with the following:

(d) Send its bid only to the Department of National Defence organization receiving the bids as specified on page 1 of the bid solicitation;

- (c) In section 05, Submission of bids, subsection 4 is amended as follows:

Delete: 60 days
Insert: 120 calendar days

- (d) Section 06, Late bids, is deleted in its entirety.
- (e) Section 07, Delayed bids, is deleted in its entirety and replaced with the following:

It is the Bidder's responsibility to ensure that its entire submission has been received. Misrouting or other electronic delivery issues resulting in the late submission of bids are not acceptable reasons for the bid to be accepted by the Department of National Defence.

- (f) Section 08, **Transmission by facsimile or by epost Connect**, is deleted in its entirety.
- (g) Section 13, **Communications—Solicitation Period**, is deleted in its entirety and replaced with the following:

To ensure the integrity of the competitive bid process, enquiries and other communications regarding the bid solicitation must be directed only as indicated on page 1 of the solicitation. Failure to comply with this requirement may result in the bid being declared non-responsive. Canada will send all significant enquiries received and their replies directly to invited Bidders by electronic mail. For further information, consult subsection 3 of the Submission of bids section.

- (h) Subsection 2 of Section 20, **Further Information** is deleted in its entirety.

2.2 Submission of Bids

Unless specified otherwise in the bid solicitation or otherwise directed by the Contracting Authority, bids must be submitted only to the Department of National Defence organization by e-mail by the date and time indicated on page 1 of the bid solicitation.

E-Mail Submissions: Individual e-mails that may include certain scripts, formats, embedded macros and/or links, or those that exceed five (5) megabytes may be rejected by Canada's e-mail system and/or firewall(s) without notice to the Bidder or Contracting Authority. Larger bids may be submitted through more than one e-mail. Canada will confirm receipt of documents. It is the Bidder's responsibility to ensure that its entire submission has been received. Bidders should not assume that all documents have been received unless Canada confirms receipt of each document. In order to minimize the potential for technical issues to affect bid receipt, bidders are requested to include in the body of their e-mail(s) a list of all documents attached to the e-mail(s), and allow sufficient time before the closing date and time to confirm receipt. Canada will not accept any bids submitted after the closing date and time.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than Ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)

- Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- A. Canada requests that bidders provide their bid in separate sections as follows:
- Section I: Technical Bid one (1) soft copy submitted by email,
 - Section II: Financial Bid one (1) soft copy submitted by email,
 - Section III: Certifications one (1) soft copy submitted by email.
- B. Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.
- C. Canada requests that Bidders follow the format instructions described below in the preparation of their bid:
- (i) Use 8.5 x 11 inch (216 mm x 279 mm) paper; and
 - (ii) Use a numbering system that corresponds to the bid solicitation.

3.2 Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

3.3 Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Pricing Schedule detailed in Attachment 1 to Part 3.

3.3.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.3.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

3.4 Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

ATTACHMENT 1 to PART 3, PRICING SCHEDULE

The Bidder should complete this pricing schedule and include it in its financial bid once completed. As a minimum, the Bidder must respond to this pricing schedule by including in its financial bid its quoted all-inclusive rate (in Can \$).

Reference to section of Annex A	Description	Quantity	Price
5.1	Ku band satellite antenna system	1	\$
5.2	Accessories	1	\$
Total Evaluated Price (Applicable Taxes extra)			\$

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

#	Mandatory Evaluation Criteria	Instructions to Bidders
MT1	The Bidder must provide One (1) Ku band satellite antenna system that meets all specifications listed in Annex "A" Statement of Requirement.	The Bidder must provide complete product literature (which may include, but is not limited to, pictures, drawings, pamphlets, and specification guides) describing their products' specifications.

4.1.2 Financial Evaluation

SACC Manual Clause A0220T (2014-06-26) Evaluation of Price-Bid

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FCA Free Carrier, Canadian customs duties and excise taxes included.

4.2 Basis of Selection

A bid must comply with all requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Statement of Requirement

The Contractor must provide the items as detailed in the Statement of Requirement at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2022-12-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

In section 01, Interpretation, the definition of "Canada", "Crown", "His Majesty" or "the Government" is amended as follows:

Delete: Minister of Public Works and Government Services

Insert: Minister of National Defence

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from the date of the Contract to 6 months after contract award. (Date to be specified in the resulting contract)

6.4.2 Delivery Date

All the deliverables must be ready to be picked up for shipping within 6 weeks following Contract award.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is: [to be specified in the resulting contract]

Name: _____
Title: _____
Directorate: _____
Address: _____
Telephone: ____ - ____ - _____
E-mail address: _____

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

The Technical Authority for the Contract is: [to be specified in the resulting contract]

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____ - ____ - _____
E-mail address: _____

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

The Contractor's Representative for the Contract is: [to be specified in the resulting contract]

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____ - ____ - _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified in the contract for a cost of \$_____ (to be specified in the resulting contract). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Method of Payment - Single Payment

SACC Manual Clause [H1000C](#) (2008-05-12), Single Payment

6.6.3 Payment

SACC Manual Clause [C2000C](#) (2007-11-30), Taxes - Foreign-based Contractor

SACC Manual Clause [C2605C](#) (2008-05-12), Canadian Customs Duties and Sales Tax – Foreign-based Contractor

SACC Manual Clause [C2608C](#) (2020-07-01), Canadian Customs Documentation

6.6.4 Electronic Payment of Invoices – Contract.

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

[List to be updated in the resulting contract]

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario **[or as specified by the bidder in its bid, if applicable]**.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) these Articles of Agreement;
- (b) the general conditions [2010A](#) (2022-12-01) General Conditions - Goods (Medium Complexity),
- (c) Annex "A", Statement of Requirement;
- (d) Annex "B", Basis of Payment; and
- (e) the Contractor's bid dated _____ **[to be specified in the resulting contract]**.

6.11 Defence Contract

SACC Manual clause [A9006C](#) (2012-07-16) Defense Contract

6.12 Foreign Nationals (Canadian Contractor), if applicable

The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

[OR]

6.12 Foreign Nationals (Foreign Contractor), if applicable

The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and

authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

6.13 SACC Manual Clauses

SACC Manual clause [G1005C](#) (2016-01-28) Insurance - No Specific Requirement

6.14 Shipping

For Canadian-based contractors:

1. Delivery will be FCA Free Carrier at _____ **[to be specified in resulting contract]** Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.

Inbound Logistics Co-ordination Center (ILCC)
Telephone: 1-877-877-7423 (toll free)
Facsimile: 1-877-877-7409 (toll free)
E-mail: ILHQOttawa@forces.gc.ca
3. The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:
 - a. the Contract number;
 - b. consignee address (for multiple addresses, items must be packaged and labelled separately with each consignee address);
 - c. description of each item;
 - d. the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
 - e. actual weight and dimensions of each piece type, including gross weight; and
 - f. full details of dangerous goods/hazardous products, as required for the applicable mode of transportation, signed certificates for dangerous goods/hazardous products as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transport Association regulations or the applicable Canadian Transportation of Dangerous Goods Regulations, and a copy of the safety data sheet in English and French.
4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, and the marking of each piece with a Transportation Control Number.
5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.
6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.

7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either 30 days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or 30 days following the delivery date specified in the Contract, whichever is later.

[OR]

For foreign-based contractors:

1. Delivery will be FCA Free Carrier at _____ **[to be specified in resulting contract]** Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.

Inbound Logistics Coordination Center (ILCC):

Telephone: 1-877-447-7701 (toll free)

Facsimile: 1-877-877-7409 (toll free)

E-mail: ILHQOttawa@forces.gc.ca

3. The Contractor must provide the following information to the DND Inbound Logistics contact when arranging for shipment:
 - a. the Contract number;
 - b. consignee address (if multiple addresses, items must be packaged and labeled separately with each consignee address);
 - c. description of each item;
 - d. the number of pieces and type of packaging (e.g. carton, crate, drum, skid);
 - e. actual weight and dimensions of each piece type, including gross weight;
 - f. copy of the commercial invoice (in accordance with clause C2608C, section 4, of the Standard Acquisition Clauses and Conditions Manual) or a copy of the Canada Border Services Agency form CI1 Canada Customs Invoice (PDF 429KB) - (Help on File Formats);
 - g. [Schedule B](#) codes (for exports) and the Harmonized Tariff Schedule codes (for imports);
 - h. North American Free Trade Agreement Certificate of Origin (in accordance with clause C2608C, section 2) for the U.S. and Mexico; and
 - i. full details of dangerous material, as required for the applicable mode of transportation, signed certificates for dangerous material as required for shipment by the International Maritime Dangerous Goods Code, or International Air Transport Association regulations or the applicable Canadian Dangerous Goods Shipping Regulations and a copy of the safety data sheet.
4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, the marking of each piece with a Transportation Control Number and customs documentation.
5. The Contractor must not ship goods before receiving shipping instructions from the DND Inbound Logistics contact.

6. If the Contractor delivers the goods at a place and time that are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either 30 days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or 30 days following the delivery date specified in the Contract, whichever is later.

6.16 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.17 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.

Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

ANNEX A- STATEMENT OF REQUIREMENT

1. TITLE

PORTABLE KU BAND SATELLITE ANTENNA SYSTEM

2. BACKGROUND

Defence Research and Development Canada (DRDC) is conducting research and development (R&D) in satellite communications. The work will include laboratory and field experiments requiring the reception, transmission and analysis of RF signals. This Statement of Requirement supports the development of a prototype sounding system for satellite signals by providing a mobile terminal for Ku-band satellite operations. A satellite antenna system will allow researchers to pick up signals from and broadcast signals to on-orbit satellites. The antenna system is comprised of multiple components, all of which must fit together and be compatible with each other. As such, contractors often sell entire integrated systems. Some modularity in these antenna systems allows systems to be configured to meet certain specifications.

3. ACRONYMS

BUC	Block Up Converter
DRDC	Defence Research and Development Canada
GHz	Gigahertz
GNSS	Global navigation satellite system
G/T	Gain to noise temperature
Ku	Kurtz-Under Band
LNB	Low Noise Block downconverter
pps	pulse per second
R&D	Research and development
Rx	Receive
SDR	Software-defined radio
SOR	Statement of Requirement
TA	Technical Authority
Tx	Transmit

4. APPLICABLE DOCUMENTS & REFERENCES

None

5. REQUIREMENTS

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 65 – 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

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	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

6. Deliverables

Number	Requirement Reference	Description of the Deliverables	Quantity and Format
6.1	5.1	Ku band satellite antenna system, as specified in Section 5.1	1
6.2	5.2	Accessories, as specified in Section 5.2	1

7. DATE OF DELIVERY

Deliverable	Delivery date
6.1	Within 16 weeks after contract award.
6.2	Within 16 weeks after contract award.

8. Language of Work

English.

9. DELIVERY LOCATION

Defence Research and Development Canada – Ottawa Research Centre
Building 5C
3701 Carling Ave
Ottawa, ON
K1S 5W9
Canada

10. Technical Authority INFORMATION

Dr Nicholas Zacchia
Defence Scientist
Cyber Operations and Resilient Communications
Defence Research and Development Canada – Ottawa Research Centre
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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 65 – 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		
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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		

ANNEX "B"- BASIS OF PAYMENT

The Contractor will be paid in accordance with the following:

Item/Task	Description	Quantity	Unit Price	Total Extended Price
5.1	Ku band satellite antenna system	1		
5.2	Accessories	1		
			Sub-Total	\$
			Applicable Taxes	\$
			Total Price	\$

ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)