

National Defence

Défense nationale

Ottawa (Ontario)

K1A 0K2

Quartier général de la Défense nationale

National Defence Headquarters Ottawa, Ontario K1A 0K2

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

RETURN BIDS TO: RETOURNER LES SOUMISSIONS À :

National Defence Headquarters Quartier général de la Défense nationale Director Services Contracting 4 (D Svcs C 4) Direction – Contrats de services 4 (DC Svcs 4) Attention: / Aux soins de : Lionel James By e-mail to: / Par courriel au : DSvcsC4Contracting-DCSvcs4Contrats@forces.gc.ca

Proposal To: National Defence Canada

We hereby bid to sell to Her Majesty the Queen 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 la Reine 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. / DOCUMENT NE CONTIENT PAS D'EXIGENCES RELATIVES À LA SÉCURITÉ.

Solicitation Closes – L'invitation prend fin

At: - à :

02:00 PM Eastern Standard Time (EST) 14:00 heure normale de l'Est (HNE)

On: - le :

30 August 2018

Title – Titre		
11110 11110	Solicitation No. – Nº de l'invitation W6369-19-X011/A	
Radar Equipment Component – Transmitter Unbalanced to Unbalanced	W0309-19-X011/A	
(UNUN) Transformer		
Date of Solicitation – Date de l'invitation		
25 July 2018		
Address Enquiries to: – Adresser toutes questions à : Lionel James by e-mail to / par courriel au lionel.james@forces.gc.ca		
	· · ·	
Lionel James by e-mail to / par courriel a Telephone No. – Nº de téléphone	u lionel.james@forces.gc.ca FAX No. – Nº de fax	
	· · ·	

Précisé dans les présentes.

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.

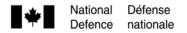
Instructions : Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations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

Delivery Required – Livraison exigée	Delivery Bided – Livraison proposée
Within ninety (90) calendar days of	
contract award	
Vendor Name and Address – Raison so	ciale 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 aut	orisée à signer au nom du fournisseur
(caractère d'imprimerie)	
Name – Nom	Title – Titre
Signature	Date

Canada

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	. 3
1.1 Security Requirements	3 3
PART 2 - BIDDER INSTRUCTIONS	. 3
 2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	4 4 4
PART 3 - BID PREPARATION INSTRUCTIONS	. 5
3.1 BID PREPARATION INSTRUCTIONS	.5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	. 6
4.1 EVALUATION PROCEDURES4.2 BASIS OF SELECTION	-
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	. 6
 5.1 CERTIFICATIONS REQUIRED	7 7 7
PART 6 - RESULTING CONTRACT CLAUSES	. 8
 6.1 SECURITY REQUIREMENTS 6.2 REQUIREMENT 6.3 STANDARD CLAUSES AND CONDITIONS 6.4 TERM OF CONTRACT 6.5 AUTHORITIES 6.6 PAYMENT 6.7 INVOICING INSTRUCTIONS 6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION 6.9 APPLICABLE LAWS 6.10 PRIORITY OF DOCUMENTS 6.11 DEFENCE CONTRACT 6.12 SACC MANUAL CLAUSES 6.13 SHIPPING INSTRUCTIONS – DELIVERY AT DESTINATION 6.14 INSPECTION AND ACCEPTANCE 	8 8 9 10 11 11 11 11 11 11
ANNEX "A" STATEMENT OF REQUIREMENT	13
ANNEX "B" BASIS OF PAYMENT	16
ANNEX "C" ELECTRONIC PAYMENT INSTRUMENTS	17



PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with the requirement.

1.2 Requirement

1.2.1 The requirement is 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.

1.4 Trade Agreements

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

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 (<u>https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual</u>) 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 <u>2003 (2017-04-27)</u> Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modifications:

Section 02, Procurement Business Number, is deleted in its entirety.

Section 05, **Submission of bids –** Subsection 2.d is deleted and replaced by:

It is the Bidder's responsibility to:

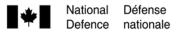
d. Send its bid only to Department of National Defence (DND) organization receiving the bids as specified on page 1 of the bid solicitation;

Section 05, Submission of Bids – Subsection 4, is amended as follows:

Delete: 60 days

Insert: 90 calendar days

Section 06, Late bids, is deleted in its entirety.



In section 07, **Delayed bids**, the text 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.

Section 08, Transmission by facsimile, is deleted in its entirety.

Section 20 of subsection 2, Further Information is deleted in its entirety.

2.1.1 SACC Manual Clauses

SACC Manual clause <u>B1000T</u> (2014-06-26) Condition of Material.

2.2 Submission of Bids

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

Electronic 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 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

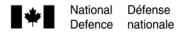
All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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.



PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (one (1) soft copy submitted by electronic mail)

Section II: Financial Bid (one (1) soft copy submitted by electronic mail)

Section III: Certifications (one (1) soft copy submitted by electronic mail)

Prices should appear in the financial bid only. No prices should be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- a. use 8.5 x 11 inch (216 mm x 279 mm) page size;
- b. use a numbering system that corresponds to the bid solicitation;

Section I: Technical Bid

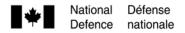
The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

The technical bid consists of the following:

Supporting Technical Documentation: Technical brochures or technical data to demonstrate compliancy to the requirement as described in Annex A

Section II: Financial Bid

- (a) **Pricing:** Bidders must submit their financial bid in accordance with the Basis of Payment, including the table, as applicable, in Annex B, Basis of Payment.
- (b) All Costs to be Included: The financial bid must include all costs for the requirement described in the solicitation for the entire period, including any extended periods. The identification of all necessary equipment, software, peripherals, cabling and components required to meet the requirements of the solicitation and the associated costs of these items is the sole responsibility of the Bidder.
- (c) Blank Prices: Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add



or change a price as part of this confirmation. Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

3.1.1 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.

3.1.2 Exchange Rate Fluctuation

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

Section III: Certifications

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

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 Technical Criteria are detailed in the Statement of Requirement at Annex "A".

4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, Delivery Duty Paid (DDP) Ottawa, Ontario, Incoterms 2010, Canadian customs duties and excise taxes included.

Unless the solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the solicitation closing date, or on another date specified in the solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

4.2 Basis of Selection

A bid must comply with the 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

Bidders must submit the following duly completed certifications.

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 <u>Forms for the Integrity Regime</u> website (http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html), to be given further consideration in the procurement process, but should mail it directly to the address specified on the form and should not include it with its bid submission by e-mail.

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.

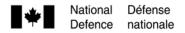
5.2.1 Integrity Provisions – Required Documentation

In accordance with the <u>Ineligibility and Suspension Policy (http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html</u>), 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 (https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#).

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.



5.2.3 Additional Certifications Required with the Bid

5.2.3.1 Product Conformance

The Bidder certifies that all goods proposed conform, and will continue to conform throughout the period of the contract, to the requirement detailed under Annex A.

Bidder's authorized representative signature Date

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

There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under 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 <u>Standard</u> <u>Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual</u>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

<u>2010A</u> (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract, with the following modification:

In section 01, Interpretation, "Canada", "Crown", "Her Majesty" or "the Government",

Delete: Minister of Public Works and Government Services

Insert: Minister of National Defence

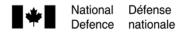
6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to one hundred and fifty (150) calendar days later.

6.4.2 Delivery Date

All the deliverables must be received within ninety (90) calendar days after contract award.



6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

[Details on the authorities to be specified in the resulting Contract]

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Organization: Name: Title and Designation:	
Address:	National Defence Headquarters 101 Colonel By Drive
	Ottawa, ON
	K1A 0K2
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 **Procurement Authority**

The Procurement Authority for the Contract is:

National Defence Headquarters
101 Colonel By Drive
Ottawa, ON
K1A 0K2

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement

6.5.3 Technical Authority

The Technical Authority for the Contract is:

Organization:	
Name:	
Title and Designation:	

Address:

National Defence Headquarters 101 Colonel By Drive Ottawa, ON K1A 0K2

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.

6.5.4 Contractor's Representative

The Contractor's Representative for the Contract is:

Organization:	
Name:	
Title:	
Address:	
Telephone:	
Facsimile:	
E-mail address:	

6.6 Payment

6.6.1 Basis of Payment – Firm Unit Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in the Contract for a cost of **[amount 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 requirement, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the requirement.

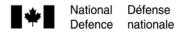
6.6.2 Single Payment

SACC Manual clause H1000C (2008-05-12), Single Payment

6.6.3 Electronic Payment of Invoices – Contract

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

- 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; and
- 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. [to be changed in the resulting contract to the Canadian province or territory as specified by the Contractor in its bid if applicable]

6.10 **Priority of Documents**

If there is a discrepancy between the wordings 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:

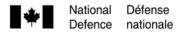
- (a) the Articles of Agreement;
- (b) the General Conditions 2010A (2016-04-04), General Conditions Goods (Medium Complexity)
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) The Contractor's bid dated [to be specified in the resulting contract] [insert date of bid], as clarified [to be specified in the resulting contract] [insert date of bid], as amended [insert date(s) of amendment(s) if applicable].

6.11 Defence Contract

SACC Manual clause <u>A9006C</u> (2012-07-16), Defence Contract

6.12 SACC Manual Clauses

SACC Manual clause <u>B1501C</u> (2006-06-16), Electrical Equipment SACC Manual clause <u>B7500C</u> (2006-06-16), Excess Goods. SACC Manual clause <u>D0050C</u> (2007-05-25), End User Certificate SACC Manual clause <u>D2000C</u> (2007-11-30), Marking



SACC Manual clause <u>D5545C</u> (2010-08-16), ISO 9001:2008 - Quality Management Systems -Requirements (Quality Assurance Code C) SACC Manual clause <u>D9002C</u> (2007-11-30), Incomplete Assemblies SACC Manual clause <u>G1005C</u> (2016-01-28), Insurance - No Specific Requirement.

6.13 Shipping Instructions – Delivery at Destination

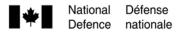
Goods must be consigned to the destination specified in the Contract and delivered:

Delivery Duty Paid (DDP) Ottawa, Ontario, Incoterms 2010 for shipments from a commercial contractor.

The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.

6.14 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 Requirement 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.



ANNEX "A" STATEMENT OF REQUIREMENT

1. TITLE

ALL DOMAIN SITUATIONAL AWARENESS (ADSA) OVER THE HORIZON RADAR (OTHR) TRANSMITTER UNBALANCED TO UNBALANCED (UNUN) TRANSFORMER

2. BACKGROUND

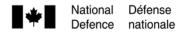
Units are to be purchased as part of ADSA OTHR transmitter equipment. These devices are a key component of the phased array transmit antenna system. Their function is to match cable impedance to the monopole antenna impedance for each antenna, which is critical for the OTHR system performance.

3. ACRONYMS

ADSA	All Domain Situational Awareness
°C	Degrees Celsius
CW	Continuous wave
DRDC	Defence Research and Development Canada
dB	Decibel
MHz	Megahertz
OTHR	Over The Horizon Radar
SOR	Statement of Requirement
ТА	Technical Authority
ТХ	Transmitter
UNUN	Unbalanced to Unbalanced
V	Volts
W	watts

4. APPLICABLE DOCUMENTS & REFERENCES

Not applicable



5. **REQUIREMENTS**

5.1 TX UNUN

Required quantity: 360

The Contractor must provide 360 TX Ununs according to the below specifications.

Parameter	Minimum	Maximum	Unit
Frequency	3 minimum	30 maximum	MHz
Operating Average Power	Greater than or equal to	1000 (CW)	W
Return Loss	Greater than or equal to	20	dB
Insertion Loss	Less than or equal to 0.1		dB
Input Impedance	40 minimum	60 maximum	Ohms
Output Impedance	180 minimum	220 maximum	Ohms
Breakdown Voltage	Greater than or equal to	10000	V
Operating Temperature	-55 minimum	70 maximum	°C
Humidity (Non-condensing)	Greater than or equal to	95	%
Mechanical Dimensions	4 X 4 X 2 (LWH)	Inches maximum	
Hardware	Stainless Steel		
Connectors			
RF Input		ype female	
RF Output	Studs – ¼ inch, Located on each side face		
Breathing Holes (2)	Located on N-Type (input) connector side		
Diameter	1/16 inch maximum		
Spacing	=	nes minimum	
Mounting Tabs	Remove top mounting tab on the "Antenna" (left) side Remove bottom mounting tab on the "GND" (right) side (When viewed facing the cover, and N-Connector facing down)		
Test Data Measurement – each deliverable unit*	0.1 dB maximum Insertion Loss 20 dB minimum Return Loss		

5.2 Accessories

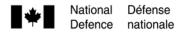
None

6. Deliverables

Number	Requirement Reference	Quantity and Format

7. DATE OF DELIVERY

Deliverable 6.1: Within ninety (90) calendar days after contract award.



8. DELIVERY LOCATION

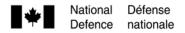
Defence Research and Development Canada – DRDC Research Centre Building 29 3701 Carling Avenue Ottawa, Ontario. K1A 0Z4 Canada

9. Intellectual Property (IP) Ownership

Not applicable

10. Controlled Goods

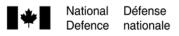
Not applicable



ANNEX "B" BASIS OF PAYMENT

The Contractor will be paid in accordance with the following:

Deliverable Number	Part Number	Qty. (A)	Firm All- Inclusive Unit Price (B)	Total Extended Price (C) (AxB=C)
6.1	TX UNUN	360		
Sub-Total	\$			
Applicable Taxes				\$
Total Price				\$



ANNEX "C" 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)