



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

**Bid Receiving - PWGSC / Réception des
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11 Laurier St. / 11, rue Laurier

Place du Portage , Phase III

Core 0B2 / Noyau 0B2

Gatineau

Québec

K1A 0S5

Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer 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, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux 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, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Electronics, Simulators and Defence Systems Div.

/Division des systèmes électroniques et des systèmes de simulation et de défense

11 Laurier St. / 11, rue Laurier

8C2, Place du Portage

Gatineau

Québec

K1A 0S5

Title - Sujet S-Band High Power Amplifiers		
Solicitation No. - N° de l'invitation W7714-166181/B	Date 2016-08-31	
Client Reference No. - N° de référence du client W7714-166181		
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-111-25964		
File No. - N° de dossier 111qf.W7714-166181	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-09-20		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Wetscher, Stefan		Buyer Id - Id de l'acheteur 111qf
Telephone No. - N° de téléphone (819) 420-0974 ()		FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE BLDG 29 RECEIVING 3701 CARLING AVE OTTAWA Ontario K1A0Z4 Canada		

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There are no Security Requirements associated with this Request for Proposal (RFP)

1.2 Statement of Requirement

The Statement of Requirement is detailed under Annex A of this RFP.

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 Agreement on Internal Trade (AIT).

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>) 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 2016-04-04 Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven 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

Prices must appear in the financial bid only. No prices must 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) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid (Please provide 3 copies)

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements as per the Annex A Statement of Requirements and Annex B Mandatory Evaluation Criteria.

Section II: Financial Bid (Please provide 3 copies)

Bidders must submit their financial bid in accordance with the Annex C Pricing Table. The total amount of Applicable Taxes must be shown separately, if applicable.

3.1.1 Exchange Rate Fluctuation

SACC Manual Clause 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

Please see Annex B – Mandatory Evaluation Criteria

4.1.2 Financial Evaluation

SACC Manual Clause A0222T (2014-06-26), Evaluation of Price – Canadian / Foreign Bidders

4.2 Basis of Selection

4.2.1 Basis of Selection, Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16), Basis of Selection, Mandatory Technical Criteria

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 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.

5.1.1 Integrity Provisions – Required Documentation

In accordance with 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.

5.1.2 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 (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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 S-Band High Power Amplifiers in accordance with the Requirement at Annex A and the Contractor's technical bid dated (to be filled at contract award).

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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before November 1st 2016

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Stefan Wetscher
Title: Senior Supply Officer
Department: Public Works and Government Services Canada Acquisitions Branch
Directorate: Electronics, Munitions and Tactical Systems Directorate
Address: 11 Laurier, Place Du Portage, Phase II, 8C2, Gatineau, QC, K1A 0S5
Telephone: 819-420-0974
Facsimile: 819-956-5650
E-mail address: Stefan.wetscher@tpsgc-pwgsc.gc.ca

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 Project Authority

The Project Authority for the Contract is: **(To be inserted at contract award)**

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

The Project 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

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

6.6 Payment

6.7 Basis of Payment

6.7.1 Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

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 *Annex C Pricing Table* for a cost of \$ **(amount to be inserted at contract award)**. 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.

6.7.2 Single Payment

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

6.8 Insurance – No Specific Requirement

SACC Manual clause G1005C (2016-01-28), Insurance – No Specific Requirement

6.9 Taxes – Foreign Based Contractor

SACC Manual clause C2000C (2007-11-30), Taxes – Foreign Based Contractor

6.10 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.

- 1) Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the following address for certification and payment:

Department of National Defence
Defence Research and Development Canada (DRDC)
3701 Carling Avenue, Bldg 29
Ottawa, Ontario
K1A 0Z4, Canada

- 2) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.11 Certifications and Additional Information

6.11.1 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.

6.12 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

6.13 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) 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, Evaluation Criteria;
- (e) Annex C, Pricing Table; and
- (f) the Contractor's bid dated _____ **(to be inserted at contract award)**

6.14 Defence Contract

SACC *Manual* clause A9006C (2012-07-16), Defence Contract

Delivery, Inspection and Acceptance

6.15 Shipping Instructions – Free on Board Destination and Delivered Duty Paid

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

FOB Destination Defence R&D Canada – Ottawa, Building 29, 3701 Carling Avenue, Ottawa, Ontario, K1A 0Z4, Canada, including all delivery charges and customs duties and Applicable Taxes.

6.16 ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)

SACC *Manual* clause D554C (2010-08-16), ISO 9001:2008 - Quality Management Systems – Requirements (Quality Assurance Code C)

6.17 Marking

SACC Manual clause D2000C (2007-11-30), Marking

6.18 Labelling

SACC Manual clause D2001C (2007-11-30), Labelling

6.19 Incomplete Assemblies

SACC Manual clause D9002C (2007-11-30), Incomplete Assemblies

6.20 Palletization

SACC Manual clause D6010C (2007-11-30), Palletization

6.21 Excess Goods

SACC Manual clause B7500C (2006-06-16), Excess Goods

6.22 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.

ANNEX A STATEMENT OF REQUIREMENT

1. TITLE

S-Band - High Power Amplifiers (Primary and Backup) - FY16/17

2. BACKGROUND

The S-Band antenna (and associated transmit chain) at the DRDC Ground Station is the main communication device being used to communicate with the Near Earth Object Surveillance Satellite (NEOSSat), an essential part of DRDC research projects. The S-Band antenna's current HPA is broken. In order to ensure that the S-Band antenna can efficiently send a signal to the satellite, a High Power Amplifier (HPA) is required to increase the power of the signal. A back-up HPA (ie. two HPAs in the total transmit chain) ensures communication with the satellite in case the primary HPA fails. When in use the HPA is mounted outside on the back of an automated tracking antenna. As such, it is exposed to outdoor environmental conditions and is remotely operated.

3. ACRONYMS

AC	Alternating Current
dB	Decibel
dBc	Decibel (dB) relative to the carrier
dBm	Decibel (dB) of the measured power referenced to one milliwatt
DRDC	Defence Research and Development Canada
GHz	Gigahertz
HPA	High Power Amplifier
IP	Internet Protocol
NEMA	National Electrical Manufacturers Association
RF	Radio Frequency
RS	Recommend Standard
SOR	Statement of Requirement
TA	Technical Authority
UDP	User Datagram Protocol
V	Volts
VSWR	Voltage Standing Wave Ratio
W	Watt

4. APPLICABLE DOCUMENTS & REFERENCES

None

5. REQUIREMENTS

5.1 S-Band - High Power Amplifier

Required quantity: 2

The Contractor must provide the requirement with the following specifications:

Number	Specifications	Value
5.1.1	Frequency Range	Frequency Range must cover at least from 2.025 to 2.12 GHz
5.1.2	Waveform	Continuous Wave
5.1.3	Gain	50 dBm Minimum

5.1.4	Flatness	±1.5 dB Maximum
5.1.5	Output power	100W Minimum
5.1.6	Harmonic output	-20 dBc Maximum
5.1.7	Input & output VSWR	2.0:1.0 Maximum
5.1.8	Power Supply	Must be included and must be considered as part of the complete and assembled unit
5.1.9	AC Power Connection for unit	120 Volt AC Compatible with NEMA connector
5.1.11	RF Input Connector	OSN 410-1 Female or N-Type
5.1.12	RF Output Connector	SMA Female or N-Type
5.1.13	Remote Output control Interface	0/5V Relay Command Off/On or RS 232/422 interface or Ethernet UDP/IP interface (any required software must be included)
5.1.14	Dimensions	Complete and assembled unit must fit within a maximum volume of 0.25 cubic meters
5.1.15	Weight	Complete and assembled unit must weigh less than a maximum weight of 100 lbs
5.1.16	Outdoor Operating Environmental Conditions	Complete and assembled unit must protect itself against water (rain/snow/ice) and dirt
5.1.17	Outdoor Operating Temperature Range	Complete and assembled unit must be capable of operating at least from -30 to +50 degrees Celsius

When a specification is defined by only a 'minimum' or 'maximum', the evaluation will treat all compliant bids equally. The 'minimum' or 'maximum' value stated is considered to meet the requirement and allows for product variance on the acceptable side of the threshold.

When a specification is defined by options delineated by 'or', the evaluation will treat these options equally.

5.2 Accessories

The Contractor must provide the following accessories for requirement 5.1:

Number	Description	Required quantity
5.2.1	Specification Sheet	1
5.2.2	User and Installation Manual	1
5.2.3	Mounting Kit	1

6. Deliverables

Number	Requirement Reference	Description of the Deliverables	Quantity	Format
6.1	5.1	S Band - High Power Amplifiers	2	Assembled in Outdoor Enclosure

6.2	5.2.1	Specification Sheet	1	Paper Hard Copy or PDF Soft Copy
6.3	5.2.2	User and Installation Manual	1	Paper Hard Copy or PDF Soft Copy
6.4	5.2.3	Mounting Kit	1	Misc. Parts

7. DATE OF DELIVERY

Deliverable	Delivery date
6.1	On or before 2017-03-31.
6.2	Upon delivery of deliverable 6.1.
6.3	Upon delivery of deliverable 6.1.
6.4	Upon delivery of deliverable 6.1.

8. Language of Work

English or English and French.

9. DELIVERY LOCATION

Defence Research and Development Canada – Ottawa Research Centre
 Building 29
 3701 Carling Ave
 Ottawa, ON
 K1A 0Z4
 Canada

10. Travel

The Contractor is not required to travel.

11. MEETINGS

Not required

12. GOVERNMENT SUPPLIED MATERIAL (GSM)

None

13. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None

14. SPECIAL CONSIDERATIONS

None

15. SECURITY

All work is unclassified and the Contractor will not have access to any classified information.

16. Intellectual Property (IP) Ownership

- ☒ Not applicable
- ☐ Canada to Own Intellectual Property Rights in Foreground Information - See attached IP checklist.
- ☐ Contractor to Own Intellectual Property Rights in Foreground Information - See attached IP checklist.

17. Controlled Goods

- ☒ Not applicable
- ☐ Applicable

ANNEX B MANDATORY EVALUATION CRITERIA

1. REQUIREMENT EVALUATION

This document identifies the procedure by which proposals for the **S-Band - High Power Amplifiers (Primary and Backup)** system will be evaluated by Canada with respect to the mandatory Request for Proposal (RFP) requirements of Annex A.

1.1. DEMONSTRATING COMPLIANCE

Bidders must complete and submit the Section 1.3 Mandatory Requirements Demonstration of Compliance Table with their proposals in order to be given consideration in the bid evaluation process. The evaluation team will only consider responses to requirements for which a Compliance Method has been specified by Canada.

The table in Section 1.3 contains a column titled "Compliance Method" that indicates the minimum required for demonstrating compliance with a mandatory requirement. Only the following methods are acceptable for supporting a Bidder's claim of compliance for each mandatory requirement:

- A. Product specifications, manuals, drawings or other published documentation (A Bidder's submitted proposal for this solicitation will not be considered published documentation) that demonstrates that the solution proposed for the System fully complies with the requirement;
- B. A compliance statement which outlines how the solution proposed for the System fully complies with the requirement; accompanied by,
 - i. An Analysis or simulation predicting the performance of solution(s) proposed for the System, which demonstrates full compliance with the requirement; or
 - ii. Test results or documented performance of existing equipment proposed for the System, which demonstrates full compliance with the requirement.

All Specification Requirements listed in the 1.3 Mandatory Requirements Demonstration of Compliance Table are mandatory. The Bidder shall reference where proof of compliance is found in their bid.

1.2. EVALUATION PROCESS

The evaluation process will be conducted by the Bid Evaluation Team as follows:

A review of bids to ensure compliance with all mandatory requirements of the Mandatory Requirements Demonstration of Compliance Table 1.3 will be conducted. The Bid Evaluation Team will identify where demonstration of compliance with mandatory requirements has been provided in a bid, assess this information for compliance, and enter the results in the "Evaluation of Bidder's Response" column of Table 1.3.

When a specification is defined by only a 'minimum' or 'maximum', the evaluation will treat all compliant bids equally. The 'minimum' or 'maximum' value stated is considered to meet the requirement and allows for product variance on the acceptable side of the threshold. When a specification is defined by options delineated by 'or', the evaluation will treat these options equally.

Should one or more of the mandatory requirements in the 1.3 Mandatory Requirements Demonstration of Compliance Table be deemed non-responsive, the bid will not be given any further consideration.

1.3. MANDATORY REQUIREMENTS DEMONSTRATION OF COMPLIANCE TABLE

Number	Specifications	Value	Compliance Method	Page/Line Number(s)	Evaluation of Bidders Response
5.1.1	Frequency Range	Frequency Range must cover at least from 2.025 to 2.12 GHz	A or B		
5.1.2	Waveform	Continuous Wave	A		
5.1.3	Gain	50 dBm Minimum	A or B		
5.1.4	Flatness	±1.5 dB Maximum	A or B		
5.1.5	Output power	100W Minimum	A or B		
5.1.6	Harmonic output	-20 dBc Maximum	A or B		
5.1.7	Input & output VSWR	2.0:1.0 Maximum	A or B		
5.1.8	Power Supply	Must be included and must be considered as part of the complete and assembled unit	A		
5.1.9	AC Power Connection for unit	120 Volt AC Compatible with NEMA connector	A		
5.1.11	RF Input Connector	OSN 410-1 Female or N-Type	A		
5.1.12	RF Output Connector	SMA Female or N-Type	A		
5.1.13	Remote Output control Interface	0/5V Relay Command Off/On or RS 232/422 interface or Ethernet UDP/IP interface (any required software must be included)	A		
5.1.14	Dimensions	Complete and assembled unit must fit within a maximum volume of 0.25 cubic meters	A		
5.1.15	Weight	Complete and assembled unit must weigh less than a maximum weight of 100 lbs	A		
5.1.16	Outdoor Operating Environmental Conditions	Complete and assembled unit must protect itself against water (rain/snow/ice) and dirt	A or B		
5.1.17	Outdoor Operating Temperature Range	Complete and assembled unit must be capable of operating at least from -30 to +50 degrees Celsius	A or B		

Solicitation No. - N° de l'invitation
W7714-166181/B
Client Ref. No. - N° de réf. du client
W7714-166181

Amd. No. - N° de la modif.
File No. - N° du dossier
111qf.W7714-166181

Buyer ID - Id de l'acheteur
111qf
CCC No./N° CCC - FMS No./N° VME

ANNEX C PRICING TABLE

Should a discrepancy exist between the Firm Unit Prices and Extended Prices, the firm Unit Pricing shall govern.

1) Requirement

Line Item	Part # / Description	Quantity	Firm Unit Price	Extended Unit Price
1	S Band – High Power Amplifier(s)	2	\$ _____	\$ _____
2	Mounting Kit, User and Installation Manual, Specification Sheet	1	\$ _____	\$ _____
			TOTAL	\$ _____

Currency:

Firm Unit Prices and Extended Prices are expressed in the following currency: **CAD**.