



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

**Bid Receiving - PWGSC / Réception des  
soumissions - TPSGC**  
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**

<b>Title - Sujet</b> Various Way Combiners	
<b>Solicitation No. - N° de l'invitation</b> W7714-176285/A	<b>Date</b> 2017-01-11
<b>Client Reference No. - N° de référence du client</b> W7714-176285	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-336-72210	
<b>File No. - N° de dossier</b> hn336.W7714-176285	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-01-27</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Bisson, Phillippe	<b>Buyer Id - Id de l'acheteur</b> hn336
<b>Telephone No. - N° de téléphone</b> (873) 469-3345 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE BLDG 29 RECEIVING 3701 CARLING AVE OTTAWA Ontario K1A0Z4 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
7B3, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with the requirement.

### **1.2 Statement of Requirements**

The contractor must provide the goods in accordance with the technical requirements stated at Annex A – Statement of Requirements.

#### **1.2.1 Delivery Requirement**

Delivery is requested to be completed by March 24, 2017.

### **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

#### 2.1.1 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">A9033T</a>	Financial Capability	2012-07-16
<a href="#">B1000T</a>	Condition of Material	2014-06-26

### 2.2 Submission of Bids

Bids must be submitted ONLY TO THE BID RECEIVING UNIT by the date, time and place indicated on page 1 of the bid solicitation. Do not send proposal directly to the Contracting Officer. Email proposal not accepted.

PWGSC Bids Receiving Unit  
11 Laurier Street  
Place du Portage, Phase 3, Core 0B2  
Gatineau, Québec, K1A 0S5  
Tel.: 819-956-3366  
Fax: 819-997-9776

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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.

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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 (2 hard copy)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications (1 hard copy)

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) (<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**

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

##### **3.1.1 Equivalent Product**

- 1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder designates the brand name and model and/or part number and NCAGE of the substitute product;
- 2. Products offered as equivalent in form, fit, function and quality will not be considered if:
  - (a) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
  - (b) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
- 3. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to provide technical information demonstrating the equivalency (e.g. Drawing, specifications, engineering reports and/or test reports), or to demonstrate that the substitute product is equivalent to the item specified in the bid solicitation, at the sole cost of bidders, within five (5) business days of the request. If the bidder fails to provide the requested information within the specified timeframe, Canada may declare the bid non-responsive.

##### **3.1.1.1 Equivalent Products - Samples (DND)**

If the Bidder offers a equivalent product, Canada reserves the right to request a sample from the Bidder in

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order to determine its equivalency in form, fit, function, quality and performance to the item specified in the bid solicitation.

The Bidder must, upon request from the Contracting Authority, provide a sample to the Technical Authority, transportation charges prepaid, and without charge to Canada, within seven (7) calendar days from the date of request. The sample submitted by the Bidder will remain the property of Canada and will not be considered as part of the deliverables in any resulting contract. If the sample does not meet the requirements of the bid solicitation or the Bidder fails to comply with the request of the Contracting Authority, the bid will be declared non-responsive.

**Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

**3.1.2 Pricing - Multi-Item Bid Solicitation**

Bidders do not have to quote a price for every item in the bid solicitation in order to be evaluated. Bidders may withdraw one or more items after bid closing but prior to contract award by advising in writing the Contracting Authority.

**3.1.2.1 Exchange Rate Fluctuation**

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

**Section III: Certifications**

Bidders must submit the certifications required under Part 5.

**Section IV: Additional Information**

**3.1.3 Delivery Offered**

While delivery is requested as indicated above, the best delivery that could be offered is\_\_\_\_\_.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

**You are reminded that this solicitation requires the compliance and/or completion of requirements attached as an Annex and forming part of this document.**

### **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**

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

##### **4.1.1.1 Mandatory Technical Criteria**

The following Mandatory requirements must be submitted with the bid for evaluation

- Technical compliance herein;

#### **4.1.2 Financial Evaluation**

##### **4.1.2.1 Pricing Basis**

The bidder must quote firm unit prices in US dollars (USD), DDP Delivered Duty Paid (destination), Applicable Taxes extra, as applicable. Freight charges to destination and all applicable Custom duties and Excise taxes must be included.

### **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 on an item by item basis will be recommended for award of a contract.

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## 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. 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 [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, 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 [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<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 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

- A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date

**or**

- B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

Green Practices within the Bidders' organization	Insert a checkmark for each criterion that is met
Promotes a paperless environment through directives, procedures and/or programs	

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All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date

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

There is no security requirement applicable to this Contract.

### 6.2 Statement of Requirements

The contractor must provide the goods in accordance with the technical requirements stated at Annex A – Statement of Requirements.

#### 6.2.1 SACC Manual Clauses

SACC Reference	Section	Date
<u>B7500C</u>	Excess Goods	2006-06-16

### 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.

##### 6.3.1.1 SACC Manual Clauses

SACC Reference	Section	Date
<u>C2800C</u>	Priority Rating	2013-01-28
<u>C2801C</u>	Priority Rating - Canadian Contractors	2014-11-27

### 6.4 Term of Contract

#### 6.4.1 Delivery Date

All the deliverables must be received on or before \_\_\_\_\_.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

##### Phillipe Bisson – Supply Officer

Public Works and Government Services Canada - Acquisitions Branch  
Logistics, Electrical, Fuel and Transportation Directorate - "HN" Division  
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5  
Telephone: (873) 469-3345  
E-mail address: [Phillipe.bisson@pwgsc-tpsgc.gc.ca](mailto:Phillipe.bisson@pwgsc-tpsgc.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 Technical Authority

The Technical Authority for the Contract is:

Name:

Title:

Telephone: (xxx) xxx-xxxx Facsimile: (xxx) xxx-xxxx

E-mail:

The Technical Authority named above 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 Technical Authority; however the Technical 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 and telephone number of the person responsible for:

#### General enquiries

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail: \_\_\_\_\_

#### Delivery follow-up

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail: \_\_\_\_\_

## 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 prices, as specified in Annex B - Pricing for a cost of \$ \_\_\_\_\_. Customs duties are included and Applicable Taxes are extra.

### 6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

### 6.6.3 Multiple Payments

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payments

### 6.6.4 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">G1005C</a>	Insurance	2016-01-28

## 6.7 Invoicing Instructions

1. 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.
2. Invoices must be distributed as follows:

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

- Dept. Of National Defence  
Defence R&D Canada Ottawa  
Building 5B  
3701 Carling Ave.  
Ottawa, ON, K1A 0Z4  
Canada  
Attention: [Heather.Riggs@forces.gc.ca](mailto:Heather.Riggs@forces.gc.ca)

- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.  
Department of Public Works and Government Services - "HN" Division  
7B3 Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5  
Attention: Phillipe Bisson, Station 70

## 6.8 Certifications

### 6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

### 6.9 Applicable Laws

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

### 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) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04);
- (c) Annex A – Statement of Requirements;
- (d) Annex B – Pricing;
- (e) the Contractor's bid dated \_\_\_\_\_, as clarified on \_\_\_\_\_, as amended on \_\_\_\_\_.

### 6.11 Defence Contract

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

### 6.12 SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
<a href="#">D2000C</a>	Marking (FOR ALL ITEMS) *	2007-11-30
<a href="#">D2001C</a>	Labelling (FOR ALL ITEMS) *	2007-11-30
<a href="#">D2025C</a>	Wood Packaging Materials	2013-11-06
<a href="#">D9002C</a>	Incomplete Assemblies	2007-11-30

\*\*Either D2000C or D2001C must be applied to all items.

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### **6.13 Shipping Instructions - Delivery at Destination**

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

For all items:

(b) Delivered Duty Paid (DDP) "*3701 Carling Ave, Ottawa ON, K1A 0Z4, Canada*" Inco terms 2000 for shipments from a commercial contractor.

## ANNEX A - STATEMENT OF REQUIREMENTS

**PURCHASE REQUEST TOOL TRACKING NUMBER:** 2016-12146

### 1. TITLE

OTHR PHASE 2 TRANSMITTER DEVELOPMENT

### 2. BACKGROUND

Units are to be purchased for evaluation, as part of OTHR Phase 2 development program.

### 3. ACRONYMS

CW	Continuous Wave
dB	Decibel
DRDC	Defence Research and Development Canada
KW	Kilowatts
MHz	Megahertz
SOR	Statement of Requirement
TA	Technical Authority
VSWR	Voltage Standing Wave Ratio
W	Watts

### 4. APPLICABLE DOCUMENTS & REFERENCES

None

### 5. REQUIREMENTS

**5.1.1** 4 – Way Combiner, 4 KW

**Required quantity: 1**

The Contractor must provide the requirement with the following specifications:

Specifications	Value
Frequency	1.5 MHz to 30 MHz Minimum
Power	4,000 W CW Minimum
Insertion Loss	0.25 dB Maximum
VSWR	1.20 : 1 Maximum
Phase Balance	+/- 5 degrees Maximum
Amplitude Balance	+/- 0.1 dB Maximum
Isolation	25 dB Minimum
Operating Temperature	-55 to + 75 degrees Celsius
Connectors	7/16 (F), N(F)

## ANNEX A - STATEMENT OF REQUIREMENTS

### **5.1.2** 4 – Way Combiner, 20 KW

#### **Required quantity: 1**

The Contractor must provide the requirement with the following specifications:

<b>Specifications</b>	<b>Value</b>
Frequency	1.5 MHz to 30 MHz Minimum
Power	20,000 W CW Minimum
Insertion Loss	0.3 dB Maximum
VSWR	1.20 : 1 Maximum
Phase Balance	+/- 5 degrees Maximum
Amplitude Balance	+/- 0.15 dB Maximum
Isolation	20 dB Minimum
Operating Temperature	-55 to + 75 degrees Celsius
Connectors	1 5/8 EIA, LC(F), SC(F)

### **5.1.3** 2 – Way Combiner, 10 KW

#### **Required quantity: 2**

The Contractor must provide the requirement with the following specifications:

<b>Specifications</b>	<b>Value</b>
Frequency	1.5 MHz to 30 MHz Minimum
Power	10,000 W CW Minimum
Insertion Loss	0.2 dB Maximum
VSWR	1.25 : 1 Maximum
Phase Balance	+/- 3 degrees Maximum
Amplitude Balance	+/- 0.1 dB Maximum
Isolation	20 dB Minimum
Operating Temperature	-55 to + 75 degrees Celsius
Connectors	LC(F), SC(F)

## ANNEX A - STATEMENT OF REQUIREMENTS

### 5.1.4 2 – Way Combiner, 5 KW

#### Required quantity: 2

The Contractor must provide the requirement with the following specifications:

Specifications	Value
Frequency	1.5 MHz to 30 MHz Minimum
Power	5,000 W CW Minimum
Insertion Loss	0.3 dB Maximum
VSWR	1.25 : 1 Maximum
Phase Balance	+/- 5 degrees Maximum
Amplitude Balance	+/- 0.15 dB Maximum
Isolation	20 dB Minimum
Operating Temperature	-55 to + 75 degrees Celsius
Connectors	LC(F), SC(F), N(F)

### 5.1.5 2 – Way 90 degree Hybrid Coupler, 2 KW

#### Required quantity: 2

The Contractor must provide the requirement with the following specifications:

Specifications	Value
Frequency	3 MHz to 20 MHz Minimum
Power	2,000 W CW Minimum
Insertion Loss	0.3 dB Maximum
VSWR	1.25 : 1 Maximum
Phase Balance	90 +/- 6 degrees Max
Amplitude Balance	+/- 0.2 dB Maximum
Isolation	25 dB Minimum
Operating Temperature	-55 to + 75 degrees Celsius
Connectors	N(F)

## ANNEX A - STATEMENT OF REQUIREMENTS

### 6. DELIVERABLES

Number	Requirement Reference	Description of the Deliverables	Quantity and Format
6.1.1	5.1.1	4 – Way Combiner, 4 KW	1
6.1.2	5.1.2	4 – Way Combiner, 20 KW	1
6.1.3	5.1.3	2 – Way Combiner, 10 KW	2
6.1.4	5.1.4	2 – Way Combiner, 5 KW	2
6.1.5	5.1.5	2 – Way 90 degree Hybrid Coupler, 2 KW	2

### 7. DATE OF DELIVERY

See Part 1 – General Information, Section 1.2.1 Delivery Requirement.

### 8. LANGUAGE OF WORK

English

### 9. DELIVERY LOCATION

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

**W7714-176285 Annex B - Pricing**

<u>Item #</u>	<u>Item Name</u>	<u>Quantity</u>	<u>Unit Price</u> <u>(\$ USD)</u>	<u>Delivery</u> <u>Destination</u>	<u>Delivery Delay</u> <u>(Weeks or</u> <u>Days)</u>
001	4KW - 4 Way Combiner  * Must be supplied in accordance with the specifications of Annex A - Statement of Requirements	1	\$ _____(USD)	Ottawa, ON	_____
002	20KW - 4 Way Combiner  * Must be supplied in accordance with the specifications of Annex A - Statement of Requirements	1	\$ _____(USD)	Ottawa, ON	_____
003	10KW - 2 Way Combiner  * Must be supplied in accordance with the specifications of Annex A - Statement of Requirements	2	\$ _____(USD)	Ottawa, ON	_____
004	5KW - 2 Way Combiner  * Must be supplied in accordance with the specifications of Annex A - Statement of Requirements	2	\$ _____(USD)	Ottawa, ON	_____
005	2KW - 2 Way Combiner 90 degree Hybrid  * Must be supplied in accordance with the specifications of Annex A - Statement of Requirements	2	\$ _____(USD)	Ottawa, ON	_____

\* 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 on an item by item basis will be recommended for award of a contract.