



**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> Mobile Mm-Wave Test Platform	
<b>Solicitation No. - N° de l'invitation</b> U6800-197481/A	<b>Date</b> 2018-10-19
<b>Client Reference No. - N° de référence du client</b> U6800-197481	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-336-75668	
<b>File No. - N° de dossier</b> hn336.U6800-197481	<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 2018-12-03</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Bisson, Phillipe	<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> INNOV, SCI AND ECON DEVT CAN 3701 CARLING AVE P.O.BOX 11490 STATION H OTTAWA Ontario K2H8S2 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 Work**

The contractor must provide the goods and services in accordance with the technical requirements stated herein.

#### **1.2.1 Delivery Requirement**

*Item 001 and 002*

Delivery is requested to be completed on or before March 22, 2019.

*Item 003 and 004*

Delivery is requested to be completed after March 31, 2019 but before June 28, 2019.

### **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 World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

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## 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](#) (2017-04-27) 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

The 2003 standard instructions is amended as follows:

- Section 5, entitled Submission of bids, is amended as follows:
  - Subsection 1 is deleted entirely and replaced with the following: "Canada requires that each bid, at solicitation closing date and time or upon request from the Contracting Authority, for example in the case of epost Connect service, be signed by the Bidder or by an authorized representative of the Bidder. If a bid is submitted by a joint venture, it must be in accordance with the section entitled Joint venture."
  - subsection 2.d is deleted entirely and replaced with the following: "send its bid only to the specified Bid Receiving Unit of Public Works and Government Services Canada (PWGSC) identified in the bid solicitation, or to the address specified in the bid solicitation, as applicable;"
  - subsection 2.e is deleted entirely and replaced with the following: "ensure that the Bidder's name, return address and procurement business number, bid solicitation number, and solicitation closing date and time are clearly visible on the bid; and,"
- Section 6, entitled Late bids, is deleted entirely and replaced with the following: "PWGSC will return bids delivered after the stipulated solicitation closing date and time, unless they qualify as a delayed bid as described in the section entitled Delayed bids. For bids submitted using means other than the Canada Post Corporation's epost Connect service, the bid will be returned. For bids submitted using Canada Post Corporation's epost Connect service, conversations initiated by the Bid Receiving Unit via the epost Connect service that contain access, records and information pertaining to a late bid will be deleted."
- Section 07, entitled Delayed bids, is amended as follows:
  - Subsection 1 is amended to add the following piece of evidence: "d. a CPC epost Connect service date and time record indicated in the epost Connect conversation activity."
- Section 8, entitled Transmission by facsimile, is deleted and replaced by the following:

"Transmission by facsimile or by epost Connect

  1. Facsimile
    - a. Unless specified otherwise in the bid solicitation, bids may be submitted by facsimile. The only acceptable facsimile number for responses to bid solicitations issued by PWGSC headquarters is 819-997-9776 or, if applicable, the facsimile number identified in the bid solicitation. The facsimile number for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.

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- b. For bids transmitted by facsimile, Canada will not be responsible for any failure attributable to the transmission or receipt of the faxed bid including, but not limited to, the following:
- i. receipt of garbled or incomplete bid;
  - ii. availability or condition of the receiving facsimile equipment;
  - iii. incompatibility between the sending and receiving equipment;
  - iv. delay in transmission or receipt of the bid;
  - v. failure of the Bidder to properly identify the bid;
  - vi. illegibility of the bid; or
  - vii. security of bid data.
- c. A bid transmitted by facsimile constitutes the formal bid of the Bidder and must be submitted in accordance with the section entitled Submission of bids.
2. ePost Connect
- a. Unless specified otherwise in the bid solicitation, bids may be submitted by using the [epost Connect service provided by Canada Post Corporation](https://www.canadapost.ca/web/en/products/details.page?article=epost_connect_send_a) ([https://www.canadapost.ca/web/en/products/details.page?article=epost\\_connect\\_send\\_a](https://www.canadapost.ca/web/en/products/details.page?article=epost_connect_send_a)).
- b. To submit a bid using epost Connect service, the Bidder must either:
- i. send directly its bid only to the specified PWGSC Bid Receiving Unit, using its own licensing agreement for epost Connect provided by Canada Post Corporation; or
  - ii. send as early as possible, and in any case, at least six business days prior to the solicitation closing date and time, an email that includes the bid solicitation number to the specified PWGSC Bid Receiving Unit requesting to open an epost Connect conversation. Requests to open an epost Connect conversation received after that time may not be answered.
- c. If the Bidder is sending an email to the Bid Receiving Unit, the Bid Receiving Unit will then initiate an epost Connect conversation which will allow the Bidder to transmit its bid afterward at any time prior to the solicitation closing date and time. The epost Connect conversation will create an email notification from Canada Post Corporation prompting the Bidder to access the message within the conversation, and the Bidder can reply to the email notification by transmitting its bid.
- d. If the Bidder is using its own licensing agreement to send its bid, the Bidder must keep the epost Connect conversation open until at least 30 business days after solicitation closing date and time.
- e. The email address of PWGSC Bid Receiving Unit in Headquarters is: [TPSGC.DGAreceptiondessoumissions-ABBidReceiving.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.DGAreceptiondessoumissions-ABBidReceiving.PWGSC@tpsgc-pwgsc.gc.ca). The solicitation number must be identified in the epost Connect message field of all electronic transfers.
- f. It should be noted that the use of epost Connect service requires a Canadian mailing address. Should a bidder not have a Canadian address, they may use the Bid Receiving Unit address specified on page 1 of the solicitation in order to register for the epost Connect service.
- g. For bids transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:
- i. receipt of a garbled or incomplete bid;
  - ii. availability or condition of the epost Connect service;
  - iii. incompatibility between the sending and receiving equipment;
  - iv. delay in transmission or receipt of the bid;
  - v. failure of the Bidder to properly identify the bid;
  - vi. illegibility of the bid;
  - vii. security of bid data; or
  - viii. inability to create an electronic conversation through the epost Connect service.

- h. A bid transmitted by epost Connect service constitutes the formal bid of the Bidder and must be submitted in accordance with the section entitled Submission of bids."

### 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.

PWGSC Bids Receiving Unit  
11 Laurier Street, Place du Portage, Phase 3, Core 0B2,  
Gatineau, Québec, K1A 0S5  
Tel.: 819-420-7201 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.

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.

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## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 8 of the 2003 standard instructions and as amended in Part 2 - Bidder Instructions, Article 2.1 Standard Instructions, Clauses and Conditions. Bidders are required to provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid  
Section II: Financial Bid  
Section III: Certifications  
Section IV: Additional Information

If the Bidder is simultaneously providing a hard copy of the bid using another acceptable delivery method, and if there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the soft copy will have priority over the wording of the hard copy.

If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

- Section I: Technical Bid (1 hard copy)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (1 hard copy)
- Section IV: Additional Information (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 hard copy 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 fiber 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.

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment.

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### 3.2.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, identify which ones are accepted.

- 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)

If none are chosen, 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.

### 3.2.2 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.

### 3.2.3 Pricing - Multi-Item Bid Solicitation

Bidders must quote a price for every item in the bid solicitation in order to be evaluated. Bidders may withdraw their entire bid after bid closing but prior to contract award by advising in writing the Contracting Authority.

## Section III: Certifications

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

## Section IV: Additional Information

### 3.3.1 Delivery Offered

Offered delivery is as follows:

- Item 001 complete by \_\_\_\_\_
- Item 002 complete by \_\_\_\_\_
- Item 003 complete by \_\_\_\_\_
- Item 004 complete by \_\_\_\_\_

### 3.3.2 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: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

## **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**

The following Mandatory factors will be taken into consideration in the evaluation of each offer:

- \* Compliance with Pricing Basis (Annex B);

The Offer price will be determined by processing items at Annex B (excluding non-evaluated options) as follows:

- a. Sum of all items total price (unit price x qty.)

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

The bidder must quote firm unit prices in Canadian dollars, 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 aggregate basis 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 procurement agreement of 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	

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](https://www.canada.ca/en/employment-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.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex titled Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

### 5.2.4 Additional Certifications Precedent to Contract Award

#### 5.2.4.1 ISO 9001 Certification

The bidder must provide copies of the manufacturer's valid ISO 9001 certification for at least the previous five (5) years.

## 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 Statement of Work

The contractor must provide the goods and services in accordance with the technical requirements stated herein.

#### 6.2.1 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">B7500C</a>	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) (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 – Items 001 to 004

Items 001 to 004 must be received on or before \_\_\_\_\_ (Delivery as offered and as accepted will be inserted at contract award).

#### 6.4.2 Period of the Contract – Item 005

The Work is to be performed for a period of three (3) years from \_\_\_\_\_ (the date of delivery of items 001 to 004, as offered and as accepted will be inserted at contract award.)

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

***Phillipe Bisson – Supply Specialist***

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: (613) 295-8641  
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 Project Authority

The Project Authority for the Contract is: (will be inserted at contract)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

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 Technical Authority

The Technical Authority for the Contract is: (will be inserted at contract)

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.

### 6.5.4 Contractor's Representative

Name and telephone number of the person responsible for: (will be inserted at contract)

#### General enquiries

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

#### Delivery follow-up

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
Facsimile: \_\_\_\_\_

## 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 firm unit prices, as specified in Annex B for a cost of \$ \_\_\_\_\_ (insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

### 6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

### 6.6.3 Multiple Payments

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

### 6.6.4 Insurance

SACC Manual clause [G1005C](#) (2016-01-28) Insurance

### 6.6.5 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

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:
    - o Industry Canada  
Communications Research Centre  
3701 Carling Ave., PO BOX 11490, Station H  
Ottawa, ON  
K2H 8S2
  - (b) One (1) copy must be forwarded to the Contracting Authority identified under the Section 5. Authorities

### 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.

#### 6.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms 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 \_\_\_\_\_ .

#### 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;

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File No. - N° du dossier  
hn336.U6800-197481

Buyer ID - Id de l'acheteur  
hn336  
CCC No./N° CCC - FMS No./N° VME

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- (b) the general conditions 2010A (2018-06-21);
  - (c) Annex A, Statement of Work;
  - (d) Annex B, Basis of Payment;
  - (e) the Contractor's bid dated \_\_\_\_\_, as clarified on \_\_\_\_\_, as amended on \_\_\_\_\_

#### 6.11 SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
<u>D9002C</u>	Incomplete Assemblies	2007-11-30

#### 6.12 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid (DDP) to "*Industry Canada, Communications Research Centre, 3701 Carling Ave., Ottawa ON, K2H 8S2*" Incoterms 2000 for shipments from a commercial contractor.

## ANNEX A

### STATEMENT OF WORK

#### Mobile Mm-Wave Test Platform

##### 1.0 Requirement

The Communications Research Centre Canada (CRC) has a requirement for a mobile millimetre-wave (mm-wave) test platform (MMTP) capable of:

1. wideband, double-directional propagation measurements (“channel sounding”);
2. capture and analysis of over-the-air transmissions (“data acquisition”); and
3. accommodating testing and demonstration of fifth-generation (5G) mobile wireless communications technology (“5G telecommunications”).

##### 2.0 Aim, Scope and Priorities

With current cellular technologies approaching their technical limits, the mobile wireless landscape is seeing a strong, worldwide push toward the deployment of more powerful, so-called fifth-generation (5G) wireless technology. The Government of Canada<sup>1</sup> recognizes the many potential benefits of 5G wireless services to Canadians, and is playing an active role in its introduction to Canada. Key elements in this pursuit are increasing the spectrum supply by opening up new bands at mm-wave frequencies, developing effective means to measure the radio spectrum, and understanding implications of 5G technology on spectrum management. As the government’s primary applied research centre for advanced telecommunications, the CRC is helping to address these needs via its research and development (R&D) programs. In particular, it aims to determine how to effectively characterize and use mm-wave frequencies in mobile urban environments, and envisions the MMTP specified herein as a common hardware and software platform supporting multiple areas of mm-wave wireless R&D.

##### 3.0 Goal, Objectives and Purpose

The purpose of the MMTP is to enhance CRC’s R&D capabilities with respect to mm-wave channel sounding, off-the-air data acquisition, and 5G telecommunications. The offered solution must, therefore, consist of modular and reconfigurable hardware and software to support multiple sets of functionality (“personalities”), as described in the numbered list below.

To be able to support all the required personalities, the solution must be composed of two functionally identical, physically separable, untethered<sup>2</sup> terminals. Each terminal must provide one

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<sup>1</sup> Particularly, the Spectrum & Telecommunications Sector (STS) of the Department of Innovation, Science, and Economic Development (ISED), which regulates the radio spectrum in Canada.

<sup>2</sup> The terminals can be tethered (i.e., they can utilize a cabled/wired connection) during a synchronization phase, but must be untethered during typical operation.

or more bidirectional ports, implemented either as integrated radio transceivers or as separate transmit and receive units, and each port must be terminated with a (CRC-provided) phased array antenna with the specifications listed in Annex C. The number of ports for each terminal, where the combination of active ports on each terminal is referred to herein as the multiple-input multiple-output (MIMO) configuration, must be reconfigurable to support the following personalities:

1. The solution must provide a **channel sounder** personality which permits fast and accurate (unidirectional) measurements of the double-directional channel. This personality must support 1x1, 2x2, 1x3 and 3x1 MIMO configurations to enable the measurement scenarios of interest to CRC. It must also provide real-time visualization of measured channel data in the time, frequency and directional domains. Directional visualization must include the display of customizable heat maps of double-directional channel data overlaid on panoramic photographic images recorded at both ends of the radio channel.
2. The solution must provide a **data acquisition** personality providing the ability to perform single-channel or coordinated multi-channel acquisition of digital complex baseband data consisting of corresponding in-phase and quadrature (I&Q) samples at each terminal. The resulting complex data streams, one (1) I/Q stream per radio frequency (RF) channel<sup>3</sup>, must be continuous (“gapless”) for a minimum bandwidth value, a minimum duration, and up to four (4) frequency- and phased-locked channels (i.e., for 0x1, 0x2, 0x3 and 0x4 MIMO configurations) at each terminal. The maximum recording duration will vary as a function of the selected instantaneous bandwidth, digitizer sampling rate, number of channels, and data storage capabilities.
3. The solution must provide a **5G telecommunications** personality enabling bidirectional data transmission with customizable signal and waveform parameters, including beamforming. In particular, the hardware and software components of the solution must be capable of accommodating an implementation complying with the standalone (SA) version of the 3GPP 5G ‘New Radio’ (NR) specifications<sup>4</sup> for both base stations (BSs) and user equipment (UE), including signals-in-space, beam management, multiuser MIMO, protocol stack, and metadata.

#### 4.0 Operational Environment

As the MMTP will be operated in mobile urban environments, the offered solution must support independent movement of both terminals at velocities up to 50 km/h. Both terminals must be installed in equipment racks on casters. To facilitate analysis of measured data in the context of the environment of operation, the solution must automatically generate and record metadata from a variety of sources, including satellite-aided inertial geolocation devices, panoramic cameras and LiDAR devices.

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<sup>3</sup> That is, the signal corresponding to each RF channel is transformed by an analog-to-digital converter (ADC) or “digitizer” into a single complex-valued (I&Q) digital data stream.

<sup>4</sup> <http://www.3gpp.org/DynaReport/38-series.htm>.

## 5.0 Mandatory Minimum Requirements

### 5.1 Functional Requirements

1. The solution must provide all the hardware necessary to operate in all the personalities described in ANNEX A, section 3.0.
2. The typical configuration of the hardware component of the solution must be that it is mounted in 19” racks, where the racks are equipped with functional locking casters.
3. The solution must integrate two (2) customer-provided Ladybug5 panoramic cameras.
4. The solution must integrate four (4) customer-provided phased array antennas, described in ANNEX C, section 2.0.
5. The solution must provide automatic generation and recording of metadata required for the analysis and visualization of wireless performance and propagation data, including line items A.2 and A.3 of section 5.2.
6. The solution must include all software required for its operation and maintenance, including but not limited to software to perform calibration, control, configuration, post-processing, analysis, visualization, and software defined radio (SDR) baseband processing for all personalities.
7. The solution must provide the source code for all the solution specific developed software components, excluding commercial off-the-shelf software, which permits the modification of, experimentation with and demonstration of custom waveforms and processing schemes, control, data acquisition, and analysis functions.
8. The solution must provide the ability to change the sounding waveform and adjust all measurement parameters.
9. The solution must support mobility up to 50 km/h.
10. The solution must offer tools for spectrum analysis, including but not limited to:
  - a. time- and frequency-domain signal analysis and visualization;
  - b. simultaneous analysis of multiple frequency channels;
  - c. simultaneous analysis of multiple hardware/RF channels;
  - d. customizable visualization tools, including spectrogram (2-dimensional plot of frequency versus time), persistence and cumulative history;
  - e. signal capture and playback at each terminal operating as a receiver; and
  - f. modulation analysis, including support for modulation/waveforms used in the 5G NR air interface;
11. The solution must be able to accommodate a 5G telecommunications personality capable of supporting bidirectional telecommunication links, including multiuser MIMO and beamforming, as described in section 3.0.

## 5.2 Table of Requirements

No.	Name	Description	Permitted Range
<b>A. General</b>			
A.1	Frequency band	Frequency range over which system can be operated	27.5-29.5 GHz
A.2	Navigation accuracy	Horizontal position error (GNSS) Horizontal position error after loss of satellite signal (inertial) Heading error	< 2.5 m CEP <sup>5</sup> < 10% of distance  < 1 deg.
A.3	LiDAR performance	Measurement Range Horizontal Field of View Vertical Field of View:  Angular Resolution (Vertical): Angular Resolution (Horizontal/Azimuth):	≥ 200 m 360° ≥ 30° (min of -15° to +15°) ≤ 0.35° ≤ 0.1° @ 5Hz rotation/frame rate / ≤ 0.4° @ 20Hz rotation/frame rate
<b>B. Channel sounder</b>			
B.1	Configuration	The solution must have a channel sounder personality offering the functionality described in Section 3.0.	N/A
B.2	Sounding bandwidth <sup>6</sup>	Max. bandwidth over which system measures channel frequency response	≥ 1 GHz
B.3	Sounding rate <sup>6</sup>	Max. rate at which system measures channel frequency response	≥ 10 kHz
B.4	Dynamic range	Instantaneous dynamic range of measured channel frequency response	> 50 dB
B.5	Amplitude accuracy	Max. amplitude error	< 0.5 dB
B.6	Phase accuracy	Max. phase error	< 5 deg.
B.7	Transmit power <sup>6</sup>	Max. transmit power at antenna input	> 0 dBm
B.8	Noise figure	Receiver noise figure	< 10 dB
B.9	Timing stability	Max. delay drift (over 1 hour, untethered)	< 0.1 μs
B.10	Phase stability	Max. phase drift (over 1 millisecond, untethered)	< 5 deg.
<b>C. Data Acquisition</b>			
C.1	Configuration	The solution must have a data acquisition personality offering the functionality described in Section 3.0.	N/A
C.2	Bandwidth	Instantaneous bandwidth per channel	1 channel : ≥ 200 MHz 2 channels : ≥ 100 MHz 3 channels : ≥ 66 MHz 4 channels: ≥ 50 MHz
C.3	Duration	Time period of the data records	≥ 30 minutes
C.4	Spectrum Analysis	The solution must offer tools for spectrum analysis as described in section 5.1, item 10.	N/A

<sup>5</sup> Circular error probability

<sup>6</sup> Parameter must be continuously controllable by user.

### **5.3 Contractor/Manufacturer requirements**

- The Contractor must offer after sales service through a three (3) year support contract that commences on the product delivery date and includes:
  - software updates;
  - bug fixes;
  - telephone support during regular business hours;
  - one (1) hardware calibration operation per year for a period of three (3) years.

Whenever the unit must be sent to the contractor for service CRC will pay for shipping to contractor and contractor to pay for return shipping.

- The Manufacturer must have valid ISO 9001 certification for at least the previous five (5) years (copies of certifications must be provided).
- The components must be commercially-available products.
- A user guide and all specification sheets and manuals must be supplied in English in Portable Document Format (PDF).
- The Contract must include on-site system verification and training as per below:
  - Up to five (5) days training for up to ten (10) people at CRC Facilities located at 3701 Carling Ave., Ottawa, Ontario, Canada. Training must be offered in English.

**ANNEX B  
BASIS OF PAYMENT**

<b>TABLE 1 – INITIAL DELIVERABLES</b>						
	<b>Item N°</b>	<b>Initial deliverable description</b>	<b>Requested Delivery Date</b>	<b>Offered delivery date</b>	<b>Quantity</b>	<b>Unit price (\$CAD)</b>
<b>Goods</b>	001	All the hardware equipment. Must be supplied in accordance with the technical specifications of Annex A.	<b>On or before Mar. 22, 2019</b>		1	\$ _____
	002	All the commercial off the shelf software required to support the channel sounder and data acquisition personalities. Must be supplied in accordance with the technical specifications of Annex A.	<b>On or before Mar. 22, 2019</b>		1	\$ _____
<b>Service</b>	003	Complete software integration and specialized software required to support the channel sounder and data acquisition personalities. Must be supplied in accordance with the technical specifications of Annex A.	<b>After March 31 and prior to Jun. 28, 2019</b>		1	\$ _____
	004	Demonstration and training for channel sounder, data acquisition and complete solution. Must be supplied in accordance with the technical specifications of Annex A.	<b>After March 31 and prior to Jun. 28, 2019</b>		1	\$ _____
	005	Three (3) year after sale support service. Must be supplied in accordance with the technical specifications of Annex A.	<b>Duration: 3 years, To begin after delivery of items 001 to 004</b>		1	\$ _____

<b>TABLE 2 - OPTIONAL DELIVERABLES (WILL NOT BE EVALUATED)</b>						
<b>Item N°</b>	<b>Optional deliverable description</b>	<b>Sub-Option N°</b>	<b>Status</b>	<b>Delivery delay (Days or weeks)</b>	<b>Quantity</b>	<b>Unit price (\$CAD)</b>
1.	Frequency band (see sect. 5.2, Item A.1)	37 GHz – 40 GHz	Non-Evaluated Option (NEO)		4 transceivers	
2.	5G telecommunications	Non-Spatial, full-stack and bidirectional implementation of 5G NR without beam management.	NEO		1	
		Spatial, Full stack and bidirectional implementation of 5G NR with beam management.	NEO		1	
3.	Data acquisition bandwidth (see sect. 5.2, Item C.2)	Instantaneous bandwidth per channel: 1 channel: $\geq 400$ MHz 2 channels : $\geq 200$ MHz 3 channels : $\geq 132$ MHz 4 channels : $\geq 100$ MHz	NEO		2 terminals	

## ANNEX C

### SUPPORTING INFORMATION

#### 1.0 Definitions

For the purpose of this document:

- A *channel* is the signal propagation medium between a pair of (radio) terminals.
- *Bidirectional* (as opposed to *unidirectional*) transmission indicates the transmission of signals from one terminal to the other, and vice versa.
- A *port* is a termination point on a terminal at which an antenna can be connected to the radio-frequency frontend.
- A *bidirectional port* is a port which can be used to transmit and receive signals.
- A *MIMO configuration*, specified by  $M \times N$  (with integer  $M, N \geq 0$ ), indicates a specific combination of ports on a pair of terminals. For example:
  - A  $2 \times 2$  configuration indicates a pair of terminals with 2 ports each.
  - A  $1 \times 3$  configuration indicates that one terminal has 1 port, and the other has 3 ports.
  - A  $0 \times 2$  configuration, while not a MIMO configuration in the conventional sense, indicates a single terminal with 2 ports.
- The *channel response* is the frequency response, in amplitude and phase, of a channel over a user-specified frequency range.
- A *channel measurement* is a measurement of the channel's properties of interest, generally the channel response.
- The *sounding rate* is the rate at which the channel response is measured.
- *Double-directional* transmission indicates transmission between two terminals equipped with phased array antennas. This term is not to be confused with bidirectional transmission; double-directional transmission (and channel measurements) can be unidirectional.
- The *double-directional channel response*, which characterizes the double-directional properties of a channel, is the channel response as a function of the beam pointing directions of the phased array antennas at both terminals.
- A *double-directional channel measurement* is a measurement of the double-directional channel response.
- The *beam update rate* is the maximum rate at which the beam pointing direction of a phased array antenna can be changed from one direction to the next.
- A *beam scan pattern* is a sequence of beam pointing directions used to measure the double-directional channel response.
- *Spatial multiplexing* is the transmission of signals carrying independent information streams over the same channel, by exploiting the channel's double-directional properties with the aid of two (or more) phased array antennas at each terminal.
- *Beam management* is a set of procedures to acquire and maintain a list of beam pointing directions permitting successful transmission and spatial multiplexing of signals between two terminals.

#### 2.0 Antenna Specifications

Frequency Range	27.5-30 GHz.
Number of elements:	64 (8x8 grid for 2D, azimuth and elevation, scanning)
Beam pattern & Beamwidth	Single beam with programmable scan angle ( $\pm 60^\circ$ ) and 3-dB beamwidth (down to 20 deg. or less in azimuth and elevation)
Directional coverage	360° (3 array antennas x 120 deg. azimuth) and 120 deg. elevation
Beam update rate	15 microseconds or better
Transmit and receive	Capable
Polarization	Linear (vertical, depending on orientation)
Interfaces	LVDS (control) 2.92mm, "K" or equivalent (RF port)
EIRP (at P1dB)	+50 dBi
Receiver sensitivity (G/T)	-7 dB/K or better

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File No. - N° du dossier

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## ANNEX D - FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\)-Labour's](#) website.

Date: \_\_\_\_\_ (YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- A4. The Bidder certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
  - A5.1. The Bidder certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.

**OR**

- A5.2. The Bidder certifies having submitted the [Agreement to Implement Employment Equity](#) (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

**OR**

- B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)