



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

Bid Receiving/Réception des soumissions

Julie.Frigon@rcmp-grc.gc.ca

**REQUEST FOR
PROPOSAL**

**DEMANDE DE
PROPOSITION**

Proposal to: Royal Canadian Mounted Police

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 : Gendarmerie royale du 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 appendices ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments: - Commentaires :

Title – Sujet PCTel Drive Testing Equipment (or equivalent)		Date January 27th , 2022
Solicitation No. – N° de l’invitation 202203101/A		
Client Reference No. - No. De Référence du Client 202203101		
Solicitation Closes – L’invitation prend fin		
At / à :	14 :00 hrs	EST (Eastern Standard Time) HNE (heure normale de l’Est)
On / le :	February 11th, 2022	
Delivery - Livraison See herein — Voir aux présentes	Taxes - Taxes See herein — Voir aux présentes	Duty – Droits See herein — Voir aux présentes
Destination of Goods and Services – Destinations des biens et services See herein — Voir aux présentes		
Instructions See herein — Voir aux présentes		
Address Inquiries to – Adresser toute demande de renseignements à Julie.Frigon@rcmp-grc.gc.ca		
Telephone No. – No. de téléphone 613-794-2047		

Delivery Required – Livraison exigée March 31st, 2022	Delivery Offered – Livraison proposée
Vendor/Firm Name, Address and Representative – Raison sociale, adresse et représentant du fournisseur/de l’entrepreneur:	
Telephone No. – No. de téléphone	Facsimile No. – No. 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 is no security requirement associated with the requirement.

1.2 Statement of Requirement

The requirement is detailed under Annex A of the resulting contract clauses.

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 Recourse Mechanisms

If you have any concerns relating to the procurement process, please refer to the [Recourse Mechanisms](#) page on the Buyandsell.gc.ca website. Please note that there are strict deadlines for filing complaints with the Canadian International Trade Tribunal (CITT) or the [Office of the Procurement Ombudsman \(OPO\)](#).

<https://buyandsell.gc.ca/for-businesses/selling-to-the-government-of-canada/bid-follow-up/bid-challenge-and-recourse-mechanisms>

<http://opo-boa.gc.ca/plaintesurvol-complaintoverview-eng.html>



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.

Revision to Departmental Name: As this solicitation is issued by Royal Canadian Mounted Police (RCMP), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

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](#) (2020-05-28) 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 Equivalent Products

[B3000T](#) (2006-06-16) Equivalent Products

2.2 Submission of Bids

Bids must be submitted only to RCMP Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

NOTE: The RCMP has not been approved for bid submission by epost Connect service.

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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



Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

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

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

2.5 Promotion of Direct Deposit Initiative

The following information is not related to the solicitation process:

An initiative within the Government of Canada called the Cheque Standardization Project has been established whereby eventually for all payments, cheque stubs will no longer be printed and, with few exceptions, will be processed via direct deposit. This option is only available when payment is made in Canadian dollars for deposit into a Canadian bank account. In an attempt to be proactive, RCMP Corporate Accounting is promoting the registration of RCMP suppliers for the upcoming change in the payment process.

If you are the successful bidder on this or any other RCMP requirement, you are encouraged to register with the RCMP for direct deposit. Please contact RCMP Corporate Accounting by email to receive a form entitled *Recipient Electronic Payment Registration Request* along with instructions for completion of the form.

Should you have any questions regarding the Cheque Standardization Project or if you want to register, please contact the following email: corporate_accounting@rcmp-grc.gc.ca



PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that the Bidder submit its complete **email** bid in separately saved and attached sections as follows:

Section I: Technical Bid (one soft copy in PDF format)

Section II: Financial Bid (one soft copy in PDF format)

Section III: Certifications (one soft copy in PDF format)

Important Note:

For bids transmitted by email, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:

- a. receipt of garbled or incomplete bid;
- b. delay in transmission or receipt of the bid to the Contracting Authority's email inbox (the date & time on the email received by the Contracting Authority is considered the date & time of receipt of the bid submission);
- c. availability or condition of the receiving equipment;
- d. incompatibility between the sending and receiving equipment;
- e. failure of the Bidder to properly identify the bid;
- f. illegibility of the bid; or
- g. security of bid data.

A bid transmitted electronically constitutes the formal bid of the Bidder and must be submitted in accordance with Section 05 of 2003 (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements.

The RCMP has restrictions on incoming e-mail messages. The maximum e-mail message size including all file attachments must not exceed 5MB. Zip files or links to bid documents will not be accepted. Incoming e-mail messages exceeding the maximum file size and/or containing zip file attachments will be blocked from entering the RCMP e-mail system. A bid transmitted by e-mail that gets blocked by the RCMP e-mail system will be considered not received. It is the responsibility of the Bidder to ensure receipt.

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

Canada requests that bidders follow the format instructions described below in the preparation of their hard copy 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](#) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). 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

Section II: Financial Bid

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

3.1.1 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

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



PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

2 x PCTel Drive Testing Equipment (or equivalent):

M1	Technologies: P25 Phase 1 and Phase 2
M2	Frequency Bands: <ul style="list-style-type: none"> a.) VHF: 136 -174 MHz b.) 700MHz: At least 760 – 805 MHz c.) 800MHz: At least 800 – 850 MHz
	P25 Measurements of downlink (DL) and uplink (UL): <ul style="list-style-type: none"> • Measurement modes: DL (Phase 1 and Phase 2), UL (Phase 1 and Phase 2), RSSI • Capable to scan at minimum 10 channels simultaneously • Channel bandwidths DL & UL: 12.5 kHz and 6.25kHz
M4	Test data storage <ul style="list-style-type: none"> • The collected test data should be stored in the device; The internal storage should store at minimum 3 hours of test data • The collected test data could be exported to an external storage through USB I/F • The collected test data could be transferred to a computer via USB I/F.

Note: Acronyms are listed in the Statement of Requirement.

4.1.1.2 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:
 - a. designates the brand name, model and/or part number of the substitute product;
 - b. states that the substitute product is fully interchangeable with the item specified;
 - c. provides complete specifications and descriptive literature for each substitute product;
 - d. provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
 - e. clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.

 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 demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

4.1.2 Financial Evaluation

[A0222T](#) (2014-06-26), Evaluation of Price-Canadian/Foreign Bidders

4.2 Basis of Selection

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



PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications 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 specified will render the bid non-responsive.

5.1.1 Integrity Provisions

In accordance with the section titled Information to be provided when bidding, contracting, or entering into a real property agreement subject to 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:

- Declaration of Convicted Offences - Integrity Declaration Form (as applicable)
- Required Documentation (List of names for integrity verification form)

Please see the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaires-forms-eng.html) website for further details (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaires-forms-eng.html>).

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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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



5.1.3 Additional Certifications Precedent to Contract Award

5.1.3.1 Independent Bid Determination

The attached Certificate of Independent Bid Determination (attached Attachment 1 to Part 5) has been developed by the federal Competition Bureau for use by the Contracting Authority when calling for bids, tenders or quotations. The intention of this documentation is to deter bid-rigging by requiring bidders to disclose, to the Contracting Authority, all material facts about any communications and arrangements which the bidder has entered into with competitors regarding the call for tenders.



Attachment 1 to PART 5
CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid or tender (hereinafter "bid") to:

(Corporate Name of Recipient of this Submission)

for: (Name and Number of Bid and Project)

in response to the call or request (hereinafter "call") for bids made by:

(Name of Tendering Authority)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: (Corporate Name of Bidder or Tenderer [hereinafter "Bidder"]) that:

- 1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the Bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the Bidder;
4. each person whose signature appears on the accompanying bid has been authorized by the Bidder to determine the terms of, and to sign, the bid, on behalf of the Bidder;
5. for the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the Bidder, whether or not affiliated with the Bidder, who:
a. has been requested to submit a bid in response to this call for bids;
b. could potentially submit a bid in response to this call for bids, based on their qualifications, abilities or experience;
6. the Bidder discloses that (check one of the following, as applicable):
a. the Bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with, any competitor;
b. the Bidder has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this call for bids, and the Bidder discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;



7. in particular, without limiting the generality of paragraphs (6)(a) or (6)(b) above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:

- a. prices;
- b. methods, factors or formulas used to calculate prices;
- c. the intention or decision to submit, or not to submit, a bid; or
- d. the submission of a bid which does not meet the specifications of the call for bids;

except as specifically disclosed pursuant to paragraph (6)(b) above;

8. in addition, there has been no consultation, communication, agreement or arrangement with any competitor regarding the quality, quantity, specifications or delivery particulars of the products or services to which this call for bids relates, except as specifically authorized by the Tendering Authority or as specifically disclosed pursuant to paragraph (6)(b) above;

9. the terms of the accompanying bid have not been, and will not be, knowingly disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening, or of the awarding of the contract, whichever comes first, unless otherwise required by law or as specifically disclosed pursuant to paragraph (6)(b) above.

(Printed Name and Signature of Authorized Agent of Bidder)

(Position Title)

(Date)



PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Statement of Requirement

The Contractor must provide two (2) PCTel Drive Testing Equipment (or equivalent) in accordance with the Requirement at Annex "A".

6.2.1 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods described at Annex A of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor

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.

Revision to Departmental Name: As this contract is issued by Royal Canadian Mounted Police (RCMP), any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

6.3.1 General Conditions

[2010A](#) (2021-12-02), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to ([3 years to be included at contract award, 2024](#)) inclusive

6.4.2 Delivery Date

All the initial deliverables must be received on or before March 31st, 2022.

6.4.3 – Delivery Points



All delivery points are listed in Annex A.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Julie Frigon
Title: Senior Procurement Officer
Royal Canadian Mounted Police
Directorate: Procurement and Contracting
Address: 73 Leikin Drive, Ottawa, ON. K1A 0R2

Telephone: 613-794-2047
E-mail address: Julie.Frigon@rcmp-grc.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:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____
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

Fill in or delete as applicable

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____
E-mail address: _____



6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex A for a cost of \$*to be included 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 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 address shown on page 1 of the Contract for certification and payment.
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (*To be specified at contract award*)

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](#) (2021-12-02), General Conditions - Goods (Medium Complexity);
- c.) Annex A Statement of Requirement and Basis of Payment;
- e.) Contractor's bid dated _____

6.11 Procurement Ombudsman



6.11.1 Dispute Resolution

The Parties agree to make every reasonable effort, in good faith, to settle amicably all disputes or claims relating to the Contract, through negotiations between the Parties' representatives authorized to settle. If the Parties do not reach a settlement within 25 working days after the dispute was initially raised to the other party in writing, either Party may contact the Office of the Procurement Ombudsman (OPO) to request dispute resolution/mediation services. OPO may be contacted by e-mail at boa.opo@boa-opo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca. For more information on OPO's services, please see the [Procurement Ombudsman Regulations](#) or visit the [OPO website](#).

6.11.2 Contract Administration

The parties understand that the Procurement Ombudsman appointed pursuant to Subsection 22.1(1) of the *Department of Public Works and Government Services Act* will review a complaint filed by the complainant respecting administration of this contract if the requirements of Subsection 22.2(1) of the *Department of Public Works and Government Services Act* and Sections 15 and 16 of the *Procurement Ombudsman Regulations* have been met.

To file a complaint, the Office of the Procurement Ombudsman may be contacted by e-mail at boa.opo@boa-opo.gc.ca, by telephone at 1-866-734-5169, or by web at www.opo-boa.gc.ca.

6.12 Insurance

[G1005C](#) (2016-01-28) Insurance – No Specific Requirements



ANNEX A – Statement of Requirement and Basis of Payment

Statement of Requirement:

1. Background

The Provincial Public Safety Telecommunications Network (PPSTN) is the radio communication network for all F and Depot Division Royal Canadian Mounted Police (RCMP) members, as well as for all Provincial firefighters, ambulance personnel, and SaskPower employees within the Province of Saskatchewan.

As per PPSTN Memorandum of Understanding and Service Level Agreement with the Province of Saskatchewan, RCMP F Division Informatics is responsible for managing all technical aspects of the PPSTN, including site deployment, maintenance, security patching, and expansion projects for all technical equipment.

In order to validate the radio system service, optimize and trouble shoot the radio network, F Division needs drive testing equipment to measure radio coverage from time to time.

2. Objectives

This Statement of Requirements is prepared in support of the procurement of two drive testing equipment.

3. Technical Requirements for the drive testing equipment

3.1 Technologies: P25 Phase 1 and Phase 2

3.2 Frequency bands:

- VHF: 136-174MHz
- 700MHz: At least 760-805 MHz
- 800MHz: At least 800-850 MHz

3.3 P25 Measurements of downlink and uplink:

- Measurement modes: DL (Phase 1 and Phase 2), UL (Phase 1 and Phase 2), RSSI
- Capable to scan greater than or equal to 10 channels simultaneously
- Data modes
 - DL: SINR, RSSI, Frame BER, Network ID, Auto Classification of Phase and Modulation Type
 - UL: SINR, RSSI, Frame BER, Network ID, Mobile ID, Auto Classification of Phase and Modulation Type
- Channel bandwidths DL and UL: 12.5 kHz and 6.25kHz
- Adjacent channel rejection DL and UL: 49 dB
- Measurement rate:
 - DL 5.4 Decodes/sec (maximum); 2.7 Decodes/sec (typical); 100 RSSI/sec
 - UL 2.4 Decodes/sec (typical), 100 RSSI/sec
- Dynamic range (SINR) DL and UL: +1 dB minimum detection
- RSSI (Phase 1 C4FM & Phase 2 HDQPSK):



- Range: -122dBm~10dBm
- Accuracy: ± 1 dB
- SINR (Phase 1 C4FM & Phase 2 HDQPSK):
 - Range: greater than or equal to 0dB
 - Accuracy: ± 1 dB

3.4 Test data display: Real time screen displays on the device or a laptop computer connected to the device

3.5 Antennas:

- Public Safety Band Antenna (s): Covers all the required frequency bands (VHF, 700, and 800MHz); Vehicle mount; High Performance
- High gain GPS antenna, vehicle mount

3.6 Walk Test Kit for indoor coverage test is required

3.7 Test data storage:

- The collected test data should be stored in the device; The internal storage should store at least 3 hours of test data
- The collected test data could be exported to an external storage through USB interface
- The collected test data could be transferred to a computer via USB interface.

4. Delivery points:

F Division RCMP Informatics Warehouse

115 Kress Street
Regina, SK. S4N 5X6

5. Appendix A: Acronyms

BER - Bit Error Rate
C4FM - Continuous 4-Level Frequency Modulation
HDQPSK - Harmonized Differential Quadrature Phase Shift Keying
dB – decibel
dBm – decibel milliwatts
DL – Downlink
UL – Uplink
GPS - Global Positioning System
kHz - kilohertz
MHz - Megahertz
RSSI - Received Signal Strength Indication
SINR - Signal to Interference & Noise Ratio
sec – second
VHF – Very High Frequency
USB - Universal Serial Bus



Basis of Payment:

1 - Initial contract period from date of contract award to *(insert date at contract award)* (all prices in CAD)

Item	Description	Quantity (A)	Unit Price (B)	Extended Price (A x B)
1	PCTel Drive Testing Equipment (or equivalent) includes all items in the SOR	2	\$	\$
			Sub-total –	\$

2 – Contract period 2, *(2nd year of contract dates to be included at contract award)* (all prices in CAD)

Item	Description	Quantity (A)	Unit Price (B)	Extended Price (A x B)
2	PCTel Drive Testing Equipment (or equivalent) includes all items in the SOR	4	\$	\$
			Sub-total –	\$

3 - Contract period 3 *(3rd year of contract dates to be included at contract award)* (all prices in CAD)

Item	Description	Quantity (A)	Unit Price (B)	Extended Price (A x B)
3	PCTel Drive Testing Equipment (or equivalent) includes all items in the SOR	4	\$	\$
			Sub-total –	\$
Estimated evaluated price (1 + 2 + 3)				\$