



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

Bid Receiving/Réception des soumissions

Visitor Center – RCMP/Centre des Visiteurs– GRC
73 Leikin Drive, Bldg., M1, Mailstop #15
Ottawa, Ontario K1A 0R2
Attn: Shannon Plunkett

**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: - Commentaries :

THIS DOCUMENT CONTAINS A SECURITY REQUIREMENT

LE PRÉSENT DOCUMENT COMPORTE UNE EXIGENCE EN MATIÈRE DE SÉCURITÉ

Title – Sujet Doppler Radar System and Training		Date October 25, 2016
Solicitation No. – N° de l'invitation 201702081		
Solicitation Closes – L'invitation prend fin		
At / à :	2 :00	EST (Eastern Standard Time) HNE (heure normale de l'Est)
On / le :	10 November, 2016	
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 The Royal Canadian Mounted Police Nat'l Forensic Science & Identification Services, Loading Dock#1 1200 Vanier Parkway, Ottawa, ON K1A 0R2		
Invoicing Instructions The Royal Canadian Mounted Police Forensic Science & Identification Services, NPS Bldg., Lab Tower, 2 nd floor, Rm 251 1200 Vanier Parkway, Ottawa, ON K1A 0R2		
Address Inquiries to – Adresser toute demande de renseignements à Carmelia Da Silva Carmelia.dasilva@rcmp-grc.gc.ca		
Telephone No. – No. de téléphone 613-843-3896	Facsimile No. – No. de télécopieur 613-825-0082	
Delivery Required – Livraison exigée See herein — Voir aux présentes	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	



TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION

- 1.1 Security Requirement
- 1.2 Statement of Work
- 1.3 Debriefings
- 1.4 Procurement Ombudsman
- 1.5 Trade Agreements
- 1.6 Canadian Content

PART 2 - BIDDER INSTRUCTIONS

- 2.1 Standard Instructions, Clauses and Conditions
- 2.2 SACC Manual Clauses
- 2.3 Submission of Bids
- 2.4 Enquiries - Bid Solicitation
- 2.5 Applicable Laws
- 2.6 Promotion of Direct Deposit Initiative

PART 3 - BID PREPARATION INSTRUCTIONS

- 3.1 Bid Preparation Instructions

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

- 4.1 Evaluation Procedures
- 4.2 Basis of Selection

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

- 5.1 Certifications Required Precedent to Contract Award

PART 6 - RESULTING CONTRACT CLAUSES

- 6.1 Security Requirement
- 6.2 Statement of Work
- 6.3 Standard Clauses and Conditions
- 6.4 Term of Contract
- 6.5 Authorities
- 6.6 Payment
- 6.7 Limitation of Price
- 6.8 Method of Payment
- 6.9 Invoicing Instructions
- 6.10 Certifications and Additional Information
- 6.11 Applicable Laws
- 6.12 Priority of Documents
- 6.13 Procurement Ombudsman
- 6.14 Defence Contract
- 6.15 SACC Manual Clauses
- 6.16 Shipping Instructions
- 6.17 Inspection and Acceptance
- 6.18 Travel and Living Expenses



List of Annexes:

Annex A	Statement of Work
Annex B	Basis of Payment
Annex C	Security Requirements Check List
Annex D	Mandatory Technical Criteria



PART 1 - GENERAL INFORMATION

1 Security Requirements

1.1 Before award of a contract, the following conditions must be met:

- (a) the Bidder must hold a valid organization security clearance as indicated in Part 6 - Resulting Contract Clauses;
- (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirements as indicated in Part 6 - Resulting Contract Clauses;
- (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;

1.2 Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.

1.3 For additional information on security requirements, bidders should refer to the [Industrial Security Program \(ISP\)](http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html) of Public Works and Government Services Canada (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>) website.

1.2 Requirement

The requirement is detailed at Annex A, Requirement, 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 Procurement Ombudsman

The Office of the Procurement Ombudsman (OPO) was established by the Government of Canada to provide an independent avenue for suppliers to raise complaints regarding the award of contracts under \$25,000 for goods and under \$100,000 for services. You have the option of raising issues or concerns regarding the solicitation, or the award resulting from it, with the OPO by contacting them by telephone at 1-866-734-5169 or by e-mail at boa-opo@boa-opo.gc.ca. You can also obtain more information on the OPO services available to you at their website at www.opo-boa.gc.ca.

1.5 Trade Agreements

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).



1.6 Canadian Content Certification

This procurement is solely limited to Canadian goods and Canadian services.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the goods and services offered are Canadian goods and Canadian services, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the goods and services offered being treated as non-Canadian goods and non-Canadian services.

The Bidder certifies that:

() a minimum of 80 percent of the total bid price consist of Canadian goods and Canadian services as defined in paragraph 5 of clause A3050T.

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6.(9), Example 2, of the Supply Manual.

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.

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

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

Delete: 60 days
Insert: 90 days

2.2 SACC Manual Clauses

B1000T (2014-06-26) Condition of Material
B1501C (2006-06-16) Electrical Equipment
B7500C (2006-06-16) Excess Goods



2.3 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.

Bids transmitted electronically or by facsimile to RCMP will not be accepted.

2.4 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.

2.5 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.

2.6 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 bidders provide their bid in separately bound sections as follows:

Section I: Mandatory Technical Bid (4 hard copies)

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: Mandatory 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.

The technical bid consists of the following:

- a) Completed and signed page 1 of the RFP;
- b) Documentation (e.g. data sheets, brochures, web site information, literature, etc.) to substantiate compliancy to the mandatory technical specifications detailed under Annex D, Mandatory Technical Requirement;
- c) Completed Annex D, Mandatory Technical Requirement.

Section II: Financial Bid

- a) Bidders must submit their financial bid in accordance with Annex B, Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) is to be shown separately, if applicable.
- b) SACC Manual Clauses C3011T (2013-11-06), Exchange Rate Fluctuation Criteria



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.
- c) The evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

To be considered responsive, a bid must meet all of the mandatory requirements as detailed at Annex D, Mandatory Technical Requirement. All Mandatory criteria must be met through way of cross-referencing with product literature, and or certifications supplied with the bid. If in some instance(s) this is not available, the bidder is to note how their product meets the requirement. Bids not meeting all of the mandatory requirements will be given no further consideration.

4.1.1.2 Financial Evaluation

1. Bidders must submit pricing in accordance with Annex B, Basis of Payment, with their bid at bid closing.
2. The evaluated price is the extended price, calculated by multiplying the Quantity by the Unit Price offered by the Bidder.
3. The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded DDP destination, Canadian customs duties and excise taxes included.

4.2 Basis of Selection – Lowest Price

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

Bidders must provide the required certifications and associated 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 may 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 *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process:

- Declaration of Convicted Offences (as applicable)
- Required Documentation: List of Names as described below. Please provide information in the below table or in a separate file.

List of names: All suppliers, regardless of their status under the Policy, must submit the following information when participating in a procurement process or real property transaction:

- suppliers that are corporate entities, including those bidding as joint ventures, must provide a complete list of the names of all current directors or, for a privately owned corporation, the names of the owners of the corporation;
- suppliers bidding as sole proprietors, including sole proprietors bidding as joint ventures, must provide a complete list of the names of all owners; or
- suppliers that are a partnership do not need to provide a list of names.



o

Name(s) & Title	Company Name	PBN No: if available

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

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 Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts awarded to FPSs, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-res



ponsive.

Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the [Financial Administration Act](#), R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the [Public Service Superannuation Act](#) (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the [Supplementary Retirement Benefits Act](#), R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the [Canadian Forces Superannuation Act](#), R.S., 1985, c. C-17, the [Defence Services Pension Continuation Act](#), 1970, c. D-3, the [Royal Canadian Mounted Police Pension Continuation Act](#), 1970, c. R-10, and the [Royal Canadian Mounted Police Superannuation Act](#), R.S., 1985, c. R-11, the [Members of Parliament Retiring Allowances Act](#), R.S. 1985, c. M-5, and that portion of pension payable to the [Canada Pension Plan Act](#), R.S., 1985, c. C-8.

5.1.3.1 Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? **Yes** () **No** ()

If so, the Bidder must provide the following information, for all FPSs in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with [Contracting Policy Notice: 2012-2](#) and the [Guidelines on the Proactive Disclosure of Contracts](#).

Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes** () **No** ()

If so, the Bidder must provide the following information:



- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

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 Requirement

The following security requirement (SRCL and related clauses) applies and form part of the Contract.

- a) The Contractor/personnel requiring access to PROTECTED information, assets or sensitive work site(s) must EACH hold a valid FACILITIES ACCESS CLEARANCE, granted or approved by the RCMP Personnel Security Unit prior to commencing the Work, and from time to time throughout the Contract Period.
- b) The Contractor MUST NOT remove any PROTECTED information or assets from the identified work site and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
- c) Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of the RCMP Personnel Security Unit.
- d) The Contractor must comply with the provisions of the Security Requirements Check List attached at Annex C.

6.2 Requirement

The Contractor must provide the items detailed at Annex A, Requirement.

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.

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

6.4 Term of Contract

6.4.1 Contract Period

The "Contract Period" is the entire period of time during which the Contractor is obliged to perform the Work, which includes:

The "Contract Period", which begins on the date the Contract is awarded and ends 1 year later.

6.4.2 Delivery Date

While delivery is requested by December 1, 2016, the best delivery that could be offered is _____.

6.4.3 Optional Goods or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both, in full or in part(s), described in 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 November 1, 2020 by sending a written notice to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Carmelia Da Silva
Title: Procurement Officer
The Royal Canadian Mounted Police, HQ Procurement and Contracting
Address: 73 Leikin Drive, Ottawa, Ontario K1A 0R2
Telephone: 613-843-3896
Facsimile: 613-825-0082
E-mail address: Carmelia.dasilva@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 Technical Authority - (To be specified at contract award)

The Technical Authority for the Contract is:

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

Telephone : _____
Facsimile: _____
E-mail address: _____

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

General Enquiries

Name: _____
Title: _____
Address: _____
Telephone No: _____
Facsimile No: _____
E-mail address: _____

Delivery Follow-up

Name: _____
Title: _____
Address: _____
Telephone No: _____
Facsimile No. _____
Email address: _____

6.6 Payment

6.6.1 Basis of Payment – Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), in accordance with Annex B, Basis of Payment for a cost of \$ _____ (To be specified at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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 Limitation of Price

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

6.8 Method of Payment

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



6.9 Invoicing Instructions

6.9.1 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.

6.9.2 Invoices must be distributed as follows:

- a) The original and one copy must be forwarded to the Technical Authority identified under the section entitled "Authorities" of the Contract for certification and payment.
- b) Upon request, one copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.10 Certifications and Additional Information

6.10.1 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.

6.11 Applicable Laws

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

6.12 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A ([2016-04-04](#)) General Conditions - Goods (Medium Complexity);
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Security Requirements Check List;
- (f) the Contractor's bid dated _____. (To be specified at contract award)

6.13 Procurement Ombudsman

6.13.1 Dispute Resolution Services

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, on request, and consent of the parties, to participate in an alternative dispute resolution process to resolve any dispute between the parties respecting the interpretation or application of a term or condition of this contract and their consent to bear the cost of such process, provide to the parties a proposal for an alternative dispute resolution process to resolve their dispute.

The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at boa-opo@boa-opo.gc.ca.



6.13.2 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 supplier or the contractor or the name of the entity awarded this contract*] 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, and the interpretation and application of the terms and conditions and the scope of the work of this contract are not in dispute.

The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at boa-opo@boa-opo.gc.ca.

6.14 SACC Manual Clauses – Delivery

G1005C (2008-05-12) Insurance

6.15 Shipping Instructions – Delivery at Destination

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

- a. Delivered Duty Paid (DDP) *Ottawa, ON* Incoterms 2000 for shipments from a commercial contractor.

6.16 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Requirements and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.



ANNEX A

STATEMENT OF WORK

DOPPLER RADAR SYSTEM

1.0 Scope of Work

The RCMP National Forensic Laboratory Services, 1200 Vanier Parkway, Ottawa, Ontario requires the supply, delivery and installation of one (1) Doppler Radar System and two (2) Target Simulator Tester Systems, for use in forensic examinations.

The Doppler Radar System will provide the RCMP a reliable means for the measurement of various external ballistics properties of projectiles discharged from firearms. The Target Simulators will be used for system verifications of the Doppler Radar System.

2.0 Warranty and Repairs

2.1 Systems must come with a minimum two (2) year complete warranty coverage on any defects or repairs.

2.2 Warranty service and repair must be provided by an authorized dealer within Canada.

3.0 Certifications

4.1 The vendor must be accredited to perform calibration and provide calibration certificates traceable to national ISO standards.

4.2 The vendor must be able to provide calibration services from authorized dealer within Canada with a turnaround time within 5 business days of receipt of the items.

4.3 Calibration service to be performed once a year and certification of calibration to be provided.

4.0 System Requirements

4.1 Frequency: The system will operate on a minimum frequency of 35 GHz.

4.2 Accuracy: The system will be accurate to $\pm 0.1\%$ at a minimum.

4.3 Operating temperature: The system must be able to operate at temperatures between -20 to 50 degrees Celsius.

4.4 Projectile Tracking:



- 4.4.1 The system must be able to track a wide range of small calibre projectiles (from 1 mm to 20 mm in diameter) of different designs/shapes (spherical, elongated, plastic, lead, steel, copper jacketed, etc.) fired from a variety of firearm's designs (air guns, improvised/homemade firearm, and conventional handguns and long arms).
- 4.4.2 The system must be able to track projectile velocities between 30 m/s to 5000 m/s.
- 4.4.3 The system must be able to provide the velocity of a projectile along the various parts of its trajectory, including muzzle velocity.
- 4.4.4 The system must be able to accomplish downrange multiple projectile tracking, including large size shot pellets (i.e. buckshot), shotshell wads, sabots, etc.
- 4.4.5 The system must be able to track the remaining velocity of a projectile or projectiles after passing through an object.
- 4.5 External ballistics properties of projectiles:

The system must be able to determine various external ballistic properties, beyond velocity measurements, such as spin analysis, drag and trajectory analysis (including the ability to calculate the ballistic coefficient of a projectile), rate or fire measurement, etc., of a projectile or projectiles.
- 4.6 Electrical: The system must operate on the standard North American electrical supply of 115VAC 60Hz 0.3A.
- 4.7 Facility operation: The system must be operable within an indoor range but also have the capabilities of being used at outdoor firing ranges. The proper operation of the system within the current Firearm Section range located at 1200 Vanier Parkway, Ottawa, ON must be verified by The RCMP prior to final payment of the system.

5.0 **Target Simulator Tester System Requirement**

- 5.1 Frequency: One system must operate at a minimum frequency of 24 GHz and the second one at 35 GHz.
- 5.2 A written procedure must be provided with these tester systems. The written procedures should be easily understood by RCMP Firearm Section personnel.



6.0 **Software**

- 7.1 The vendor must provide software to accompany the system that can be used to provide calculations, analysis and reports of projectile behaviour tracked by the Doppler radar system.
- 7.2 The software must be compatible with Windows XP,7,8 operating systems.

7.0 **Delivery/Acceptance**

The winning bidder must send written notification to the RCMP Technical Authority of the planned shipping date of the items. The notification must be provided two weeks prior to shipping in order to make arrangements for acceptance testing.

8.0 **Training**

- 8.1 Vendor must provide on-site start-up operation training for up to twelve (12) people.
- 8.2 Vendor must provide two copies of installation, operation and maintenance manuals in English. One (1) hardcopy and one (1) in electronic format.



ANNEX B

BASIS OF PAYMENT

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 price will be recommended for award of a contract.

Prices are firm, all inclusive Canadian dollars, DDP Destination, customs duties included, GST/HST extra if applicable.

Item	Description	Firm Unit Price	Unit of Issue	Quantity	Extended Price
1.	Doppler Radar System, as described in Annex A, Requirement.	\$	Each	1	\$
2.	Doppler Analysis Software, as described in Annex A, Requirement.	\$	Each	1	\$
3.	Target Simulator 24 Ghz, as described in Annex A, Requirement.	\$	Each	1	\$
4.	Target Simulator 35 Ghz, as described in Annex A, Requirement.	\$	Each	1	\$
5.	Installation and Training – (includes travel & accommodations)	\$	Lot	1	\$
Total (Canadian Dollars):					\$

Optional Maintenance Service - Year 1

Item	Description	Quantity	Firm Unit Price
1.	Calibration of Doppler Radar System	1	\$
2.	Calibration of Target Simulator 24 Ghz	1	\$
3.	Calibration of Target Simulator 35 Ghz	1	\$



Optional Maintenance Service - Year 2

Item	Description	Quantity	Firm Unit Price
1.	Calibration of Doppler Radar System	1	\$
2.	Calibration of Target Simulator 24 Ghz	1	\$
3.	Calibration of Target Simulator 35 Ghz	1	\$

Optional Maintenance Service - Year 3

Item	Description	Quantity	Firm Unit Price
1.	Calibration of Doppler Radar System	1	\$
2.	Calibration of Target Simulator 24 Ghz	1	\$
3.	Calibration of Target Simulator 35 Ghz	1	\$

Disbursements and Travel Time

The all-inclusive firm rates specified are inclusive of overhead expenses such as administrative support, facsimile, courier, photocopying, mail, word processing, other operating costs and any time spent traveling to locations. Accordingly, separate billing of any items related to the routine cost of doing business or time spent traveling shall not be permitted under any resulting contract.

Travel and Living Expenses - National Joint Council Travel Directive

The Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Technical Authority.

All payments are subject to government audit.

Estimated Cost: \$2000.00 total (taxes included).



GST/HST

1. All prices and amounts of money in the Contract are exclusive of Goods and Services Tax (GST) or Harmonized Sales Tax (HST), as applicable, unless otherwise indicated. The GST or HST, whichever is applicable, is extra to the price herein and will be paid by Canada.
2. The estimated GST or HST of <to be indicated at contract award> is included in the total estimated cost. GST or HST, to the extent applicable, will be incorporated into all invoices and progress claims and shown as a separate item on invoices and progress claims. All items that are zero-rated, exempt or to which the GST or HST does not apply, are to be identified as such on all invoices. The Contractor agrees to remit to Canada Revenue Agency any amounts of GST and HST paid or due.



ANNEX C

SECURITY REQUIREMENTS CHECK LIST

Government of Canada / Gouvernement du Canada

NARMS 2016 111 22654
 Contract Number / Numéro du contrat: 201702081
 Security Classification / Classification de sécurité

SECURITY REQUIREMENTS CHECK LIST (SRCL)
 LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

1 Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine		2 Branch or Directorate / Direction générale ou Direction	
RCMP		NFLS-D	
3 a) Subcontract Number / Numéro du contrat de sous-traitance		3 b) Name and Address of Subcontractor / Nom et adresse du sous-traitant	
		Information	
4 Brief Description of Work / Brève description du travail			
Doppler Training, installation and 2 year warranty no access to protected/classified information			
5 a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées?		<input checked="" type="checkbox"/> No / Non	<input type="checkbox"/> Yes / Oui
5 b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques?		<input checked="" type="checkbox"/> No / Non	<input type="checkbox"/> Yes / Oui
6 Indicate the type of access required / Indiquer le type d'accès requis			
6 a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7 c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7 c)		<input checked="" type="checkbox"/> No / Non	<input type="checkbox"/> Yes / Oui
6 b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé.		<input type="checkbox"/> No / Non	<input checked="" type="checkbox"/> Yes / Oui
6 c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit?		<input checked="" type="checkbox"/> No / Non	<input type="checkbox"/> Yes / Oui
7 a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès			
Canada <input checked="" type="checkbox"/>		NATO / OTAN <input type="checkbox"/>	Foreign / Étranger <input type="checkbox"/>
7 b) Release restrictions / Restrictions relatives à la diffusion			
No release restrictions / Aucune restriction relative à la diffusion <input checked="" type="checkbox"/>		All NATO countries / Tous les pays de l'OTAN <input type="checkbox"/>	No release restrictions / Aucune restriction relative à la diffusion <input type="checkbox"/>
Not releasable / À ne pas diffuser <input type="checkbox"/>			
Restricted to / Limité à <input type="checkbox"/>		Restricted to / Limité à <input type="checkbox"/>	Restricted to / Limité à <input type="checkbox"/>
Specify country(ies) / Préciser le(s) pays		Specify country(ies) / Préciser le(s) pays	Specify country(ies) / Préciser le(s) pays
7 c) Level of information / Niveau d'information			
PROTECTED A / PROTÉGÉ A <input type="checkbox"/>	NATO UNCLASSIFIED / NATO NON CLASSIFIÉ <input type="checkbox"/>	PROTECTED A / PROTÉGÉ A <input type="checkbox"/>	
PROTECTED B / PROTÉGÉ B <input type="checkbox"/>	NATO RESTRICTED / NATO DIFFUSION RESTREINTE <input type="checkbox"/>	PROTECTED B / PROTÉGÉ B <input type="checkbox"/>	
PROTECTED C / PROTÉGÉ C <input type="checkbox"/>	NATO CONFIDENTIAL / NATO CONFIDENTIEL <input type="checkbox"/>	PROTECTED C / PROTÉGÉ C <input type="checkbox"/>	
CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/>	NATO SECRET <input type="checkbox"/>	CONFIDENTIAL / CONFIDENTIEL <input type="checkbox"/>	
SECRET <input type="checkbox"/>	COSMIC TOP SECRET <input type="checkbox"/>	SECRET <input type="checkbox"/>	
TOP SECRET / TRÈS SECRET <input type="checkbox"/>	COSMIC TRFS SECRET <input type="checkbox"/>	TOP SECRET / TRÈS SECRET <input type="checkbox"/>	
TOP SECRET (SIGINT) <input type="checkbox"/>		TOP SECRET (SIGINT) <input type="checkbox"/>	
TRÈS SECRET (SIGINT) <input type="checkbox"/>		TRÈS SECRET (SIGINT) <input type="checkbox"/>	

TBS/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada



Government of Canada / Gouvernement du Canada

UARMS 201611122654
Contract Number / Numéro du contrat
201702081
Security Classification / Classification de sécurité

PARTIE A (continued) / PARTIE A (suite)

8 Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS?
If Yes, indicate the level of sensitivity. / Dans l'affirmative, indiquer le niveau de sensibilité. No / Non Yes / Oui

9 Will the supplier require access to extremely sensitive INFOSEC information or assets?
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?
Short Title(s) of material / Titre(s) abrégé(s) du matériel: _____
Document Number / Numéro du document: _____ No / Non Yes / Oui

PARTIE B - PERSONNEL (SUPPLIERS) / PARTIE B - PERSONNEL (FOURNISSEUR)

10 a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

<input checked="" type="checkbox"/> RELIABILITY STATUS / COTE DE FIABILITÉ	<input type="checkbox"/> CONFIDENTIAL / CONFIDENTIEL	<input type="checkbox"/> SECRET / SECRET	<input type="checkbox"/> TOP SECRET / TRÈS SECRET
<input type="checkbox"/> TOP SECRET - SIGINT / TRÈS SECRET - SIGINT	<input type="checkbox"/> NATO CONFIDENTIAL / NATO CONFIDENTIEL	<input type="checkbox"/> NATO SECRET / NATO SECRET	<input type="checkbox"/> COSMIC TOP SECRET / COSMIC TRÈS SECRET
<input type="checkbox"/> SITE ACCESS / ACCÈS AUX EMPLACEMENTS			

Special comments / Commentaires spéciaux: Facility access/ contractor will be escorted at all time. Facility Access: IT with Escort

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.
REMARQUE: Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10 b) May unscreened personnel be used for portions of the work?
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? No / Non Yes / Oui
If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? No / Non Yes / Oui

PARTIE C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11 a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises?
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? No / Non Yes / Oui

11 b) Will the supplier be required to safeguard COMSEC information or assets?
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? No / Non Yes / Oui

PRODUCTION

11 c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises?
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? No / Non Yes / Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11 d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data?
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? No / Non Yes / Oui

11 e) Will there be an electronic link between the supplier's IT systems and the government department or agency?
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? No / Non Yes / Oui

TES/SCT 350-103(2004/12)

Security Classification / Classification de sécurité

Canada



Government of Canada / Gouvernement du Canada

NARMS 201611120654
Contract Number / Numéro du contrat:
201702081
Security Classification / Classification de sécurité

PART C (continued) / PARTIE C (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.
Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the internet) the summary chart is automatically populated by your responses to previous questions.
Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

Category / Catégorie	PROTECTED / PROTÉGÉ			CLASSIFIED / CLASSIFIÉ			NATO				COMSEC					
	A	B	C	CONFIDENTIAL	SECRET	TOP SECRET	NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COMSEC TOP SECRET	PROTECTED / PROTÉGÉ	CONFIDENTIAL	SECRET	TOP SECRET		
				CONFIDENTIAL		TOP SECRET	NATO DIFFUSION RESTRICTED	NATO CONFIDENTIAL			A	B	C	CONFIDENTIAL	SECRET	TOP SECRET
Information Assets																
Resupplyments, Bids, Production																
IT Media																
Support IT																
IT Logs																
IT Infrastructure																

12 a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?
La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE? No / Non Yes / Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12 b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?
La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE? No / Non Yes / Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).
Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



ANNEX D

MANDATORY TECHNICAL CRITERIA

Bidders must provide cross-reference information below to identify the page(s) where each mandatory specification detailed in Annex A, Requirement is demonstrated in their technical bid. Canada reserves the right to verify any and all information.

ITEM #	MANDATORY SPECIFICATION	Substantiation in detail as to how the requirement was met - Cross-reference to proposal (page & paragraph)
M1.0	Vendor Requirments	
M1.1	The vendor must regularly manufacture Doppler Radar Systems and provide proof in writing of how many units per year they manufactured within the last five (5) years.	
M2.0	Warranty and Repairs	
M2.1	Systems must come with a minimum two (2) year complete warranty coverage on any defects or repairs.	
M2.2	Warranty service and repair must be provided by an authorized dealer within Canada.	
M3.0	Certifications	
M3.1	The vendor must be accredited to perform calibration and provide calibration certificates traceable to national ISO standards.	
M4.0	System Specifications	
M4.1	Frequency: The system must be able to operate on a minimum frequency of 35 GHz.	
M4.2	Accuracy: The system must be accurate to to ± 0.1% at a minimum.	
M4.3	Operating temperature: The system must be able to operate at temperatures between -20 to 50 degrees Celsius.	
M4.4	The system must be able to track a wide range of small calibre projectiles (from 1 mm to 20 mm in diameter) of different designs/shapes (spherical, elongated, plastic, lead, steel, copper jacketed, etc.) fired from a variety of firearm's designs (air guns, improvised/homemade firearm, and conventional handguns and long arms).	
M4.5	The system must be able to track projectile velocities between 30 m/s to 5000 m/s.	
M4.6	The system must be able to provide the velocity of a projectile along the various parts of its trajectory, including muzzle velocity.	



M4.7	The system must be able to accomplish downrange multiple projectile tracking, including large size shot pellets (i.e. buckshot), shotshell wads, sabots, etc.	
M4.8	The system must be able to track the remaining velocity of a projectile or projectiles after passing through an object.	
M4.9	The system must be able to determine various external ballistic properties, beyond velocity measurements, such as spin analysis, drag and trajectory analysis (including the ability to calculate the ballistic coefficient of a projectile), rate or fire measurement, etc., of a projectile or projectiles.	
M4.10	The system must operate on the standard North American electrical supply of 115VAC 60Hz 0.3A.	
M4.11	The system must be operable within an indoor range but also have the capabilities of being used at outdoor firing ranges.	
M5.0	Target Simulator Tester System	
M5.1	One system must operate at a minimum frequency of 24 GHz and the second one at 35 GHz.	
M5.2	A written procedure must be provided with these tester systems. The written procedures should be easily understood by RCMP Firearm Section personnel.	
M6.0	Software	
M6.1	The vendor must provide software to accompany the system that can be used to provide calculations, analysis and reports of projectile behaviour tracked by the Doppler radar system.	
M6.2	The software must be compatible with Windows XP,7,8 operating systems.	