

**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 0A1 / Noyau 0A1**

**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> PRECISION 7.62MM RIFLE	
<b>Solicitation No. - N° de l'invitation</b> W6399-13EC08/A	<b>Date</b> 2013-01-11
<b>Client Reference No. - N° de référence du client</b> W6399-13EC08	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$BM-015-23485	
<b>File No. - N° de dossier</b> 015bm.W6399-13EC08	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-02-21</b>	<b>Time Zone Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Cadotte (bm div), John	<b>Buyer Id - Id de l'acheteur</b> 015bm
<b>Telephone No. - N° de téléphone</b> (819) 956-0218 ( )	<b>FAX No. - N° de FAX</b> (819) 956-5650
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE  NCR REGION (OTTAWA, ONTARIO 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**

Weapons Systems Division/Division des systèmes d'arme

11 Laurier St. / 11, rue Laurier

8C2, Place du Portage

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 (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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Solicitation No. - N° de l'invitation

W6399-13EC08/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

015bm

Client Ref. No. - N° de réf. du client

W6399-13EC08

File No. - N° du dossier

015bmW6399-13EC08

CCC No./N° CCC - FMS No/ N° VME

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**List of Annexes:**

Annex "A"	Statement of Work for the Precision (7.62 mm) Weapon
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Annex "C"	Bid Evaluation Process for the Precision (7.62 mm) Weapon
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Annex "E"	Basis of Payment

## PART 1 - GENERAL INFORMATION

### 1. INTRODUCTION

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, the Technical and Performance Specifications, the Bid Evaluation Process, the Optional Procurements and the Basis of Payment.

### 2. SUMMARY

The Department of National Defence (DND) has a requirement for the provision of commercial-off-the-shelf Precision (7.62 mm) Weapons as detailed under Part 7, article 1, of the bid solicitation. Pursuant to section 01 of Standard Instructions 2003, Bidders must submit a complete list of names of all individuals who are currently directors of the Bidder. Furthermore, as determined by the Special Investigations Directorate, Departmental Oversight Branch, each individual named on the list may be requested to complete a Consent to a Criminal Record Verification form and related documentation.

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

This procurement is subject to the Controlled Goods Program.

### 3. DEBRIEFINGS

After contract award, 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## PART 2 - BIDDER INSTRUCTIONS

### 1. STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2012-11-19) 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: sixty (60) days

Insert: three hundred and sixty-five (365) days

### **1.1 *Manual SACC Clauses***

B1000T (2007-11-30), Condition of Materiel

## **2. SUBMISSION OF BIDS**

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

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

## **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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

## **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, Canada.

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

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

### **1. BID PREPARATION INSTRUCTIONS**

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (\_3\_ hard copies)

Section II: Financial Bid (\_\_1\_\_ hard copies)

Section III: Certifications (\_\_1\_\_ hard copies)

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

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

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

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

### Section I: Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

### Section II: Management Bid

In their management bid, bidders must describe their capability and experience, the project management team and provide client contact(s).

### Section III: Financial Bid

**1.1** Bidders must submit their financial bid in accordance with the Basis of Payment in Annex "E". The total amount of Goods and Services Tax or Harmonized Sales Tax must be shown separately, if applicable.

#### **1.2 Exchange Rate Fluctuation**

C3011T (2010-01-11), Exchange Rate Fluctuation

### Section III: Certifications

Bidders must submit the certifications required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 1. EVALUATION PROCEDURES

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

#### 1.1 Technical Evaluation

##### 1.1.1 **Mandatory Technical Criteria**

Bidders must meet the mandatory criteria set out in Annexes A, B and D.

##### 1.1.2 **Point Rated Technical Criteria**

Bidders must meet the point rated criteria set out in Annexes A, B and D.

##### 1.1.2.3 **Submission of a Sample**

Bidders must submit samples in accordance with Annex C.

#### 1.2 Financial Evaluation

##### 1.2.1 **Mandatory Financial Criteria**

*SACC Manual* Clause A0220T (2007-05-25), Evaluation of Price

### 2. BASIS OF SELECTION

#### 2.1 For Item 001

- 1. To be declared responsive, a bid must:
  - (a) comply with all the requirements of the bid solicitation; and
  - (b) meet all mandatory criteria (Annexes B and D); and
  - (c) obtain the required minimum points specified for each criterion for the technical evaluation.

The rating is performed on a scale of 172 points.

- 2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
- 3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% for the price.
- 4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.
- 5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30%.
- 6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
- 7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract as per Annex C.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

**Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)**

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		115/135	89/135	92/135
Bid Evaluated Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	$115/135 \times 70 = 59.63$	$89/135 \times 70 = 46.15$	$92/135 \times 70 = 47.70$
	Pricing Score	$45/55 \times 30 = 24.55$	$45/50 \times 30 = 27.00$	$45/45 \times 30 = 30.00$
Combined Rating		84.18	73.15	77.7
Overall Rating		1st	3rd	2nd

**2.1 For Items 002 - 006**

1. To be declared responsive, a bid must:

- (a) comply with all the requirements of the bid solicitation; and
- (b) meet all mandatory criteria (Annexes A, B and D); and
- (c) obtain the required minimum points specified for each criterion for the technical evaluation.

The rating is performed on a scale of 172 points.

2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.

3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% for the price.

4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.

5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30%.

6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract as per Annex C.

**PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.



Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

## **1. MANDATORY CERTIFICATIONS REQUIRED PRECEDENT TO CONTRACT AWARD**

### **1.1 Code of Conduct and Certifications - Related documentation**

**1.1.1** By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names 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 will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms ( [Consent to a Criminal Record Verification](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html) form- PWGSC-TPSGC 229)

(<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

## **2. ADDITIONAL CERTIFICATIONS PRECEDENT TO CONTRACT AWARD**

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

### **2.1 Federal Contractors Program - Certification**

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

(a) ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;

(b) ( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;

(c) ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;

(d) ( ) is subject to the FCP, and has a valid certificate number as follows: \_\_\_\_\_ (e.g. has not been declared an ineligible contractor by HRSDC).

Further information on the FCP is available on the HRSDC Web site.

## **PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS**

N/A

## PART 7 - RESULTING CONTRACT CLAUSES

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

### 1. REQUIREMENT

The Contractor must provide the items detailed under the "Basis of Payment" at Annex "\_E\_".

#### 1.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex E 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.

### 2. 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.

#### 2.1 General Conditions

2030 (2012-11-19), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

#### 2.2 Supplemental General Conditions

4006 (2010-08-16), Supplemental General Conditions - Contractor to Own Intellectual Property Rights in Foreground Information, apply to and form part of the Contract.

### 3. SECURITY REQUIREMENT

N/A

### 4. TERM OF CONTRACT

#### For item 001

##### 4.1 Delivery Date

All the deliverables must be received on or before 90 business days after receipt of order. (*insert date*).

#### For items 002-006

##### 4.1 Delivery Date

All the deliverables must be received on or before 90 business days after receipt of order. (*insert date*).

### 5. AUTHORITIES

#### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: John Cadotte

Title: Supply Team Leader

Public Works and Government Services Canada

**Acquisitions Branch**

Directorate: Electronics, Munitions and Tactical Systems Procurement Directorate

Address: Place du Portage, Phase III, 8C2

11 Laurier Street

Gatineau, Quebec K1A 0S5

Telephone: 819-956-0218

Facsimile: 819-956-5650

E-mail address: john.cadotte@pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

**5.2 Project Authority**

The Project Authority for the Contract is:

Name: TBD

National Defence Headquarters

MGen George R. Pearkes Building

101 Colonel By Drive

Ottawa, Ontario K1A 0K2

Canada

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.

**5.3 Contractor's Representative**

<b><u>General Enquiries</u></b> Name: _____ Telephone No. _____ Facsimile No. _____ E-mail address: _____	<b><u>Delivery Follow-up</u></b> Name: _____ Telephone No. _____ Facsimile No. _____ E-mail address: _____
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**6. PAYMENT****6.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), as specified in the contract for a cost of \$ \_\_\_\_\_ (*insert the amount 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.

## **6.2 Multiple Payments**

SACC Manual clause H1001C (2008-05-12), Multiple Payments

## **6.3 SACC Manual Clauses**

C2000C (2007-11-30), Taxes - Foreign Based Contractors

H4500C (2010-01-11), Lien - Section 427 of the Bank Act

## **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.

National Defence Headquarters  
Mgen George R. Pearkes Building  
101 Colonel By Drive  
Ottawa, ON. K1A 0K2

Attention: \_\_\_\_\_, DGLEPM/ DLP \_\_\_\_\_

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

## **8. CERTIFICATIONS**

### **8.1 Compliance**

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## **9. APPLICABLE LAWS**

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

## **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 supplemental general conditions 4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information;

- (c) the general conditions 2030 (2012-11-19) - Higher Complexity - Goods;  
 (d) Annex A, Statement of Work for the Precision (7.62 mm) Weapon  
 (e) Annex B, Technical Performance Specifications for the Precision (7.62 mm) Weapon;  
 (f) Annex C, Bid Evaluation Process for the Precision (7.62 mm) Weapon  
 (g) Annex D, Optional Procurements for the Precision (7.62 mm) Weapon;  
 (h) Annex E, Basis of Payment;  
 (i) the Contractor's bid dated \_\_\_\_\_, *(insert date of bid) (If the bid was clarified or amended, insert at the time of contract award: ", as clarified on \_\_\_\_\_ " or ", as amended on \_\_\_\_\_ " and insert date(s) of clarification(s) or amendment(s)).*

## 11. DEFENCE CONTRACT

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

## 12. SACC MANUAL CLAUSES

D9002C (2007-11-30), Incomplete Assemblies

C2800C (2011-05-16), Priority Rating

C2801C (2011-05-16), Priority Rating - Canadian-based Contractors

D6010C (2007-11-30), Palletization

D5545C (2010-08-16), ISO 9001:2008 - Quality Management Systems - Requirements (QAC C)

B4060C (2011-05-16), Controlled Goods

A1009C (2008-05-12), Work Site Access

## 13. PREPARATION FOR DELIVERY

The Contractor must prepare item(s) \_001- 006\_\_\_\_\_ for delivery in accordance with the latest issue of the Canadian Forces packaging specifications D-LM-008-027/SF-001, Small Arms Weapons.

The Contractor must prepare item number(s) \_001- 006\_\_\_\_\_ for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification D-LM-008-036/SF-000, DND Minimum Requirements for Manufacturer's Standard Pack.

The Contractor must package item number(s) 001- 006 in quantities of \_1\_\_ per Package.

## 14. SHIPPING INSTRUCTIONS - DELIVERY AT DESTINATION

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

FOB Destination (DND - Richmond, Ontario, Canada) including all delivery charges and customs duties and taxes.

## 15. INSURANCE

SACC *Manual* clause G1005C (2008-05-12) Insurance

## 16. CONTROLLED GOODS PROGRAM

SACC *Manual* clause A9131C (2011-05-16), Controlled Goods Program

**STATEMENT OF WORK  
FOR THE  
PRECISION (7.62 MM) WEAPON**

**1.0 SCOPE**

**1.1 Purpose**

The purpose of this Statement of Work is to describe the requirements for the provision of commercial-off-the-shelf Precision (7.62 mm) Weapons (PWs) to the Department of National Defence (DND).

**1.2 Background**

DND has a requirement for short to medium range (300-800 m (330-880 yd)) high precision weapons to support in both domestic and deployed roles where standard Canadian Forces weapons are unsuitable. This equipment will be referred to as the Precision (7.62 mm) Weapon (PW).

**2.0 DELIVERABLES**

The Contractor shall deliver the following within thirty (30) days of Contract Award:

- (a) Quantity five (5) PWs in accordance with the Technical and Performance Requirements at Annex B;
- (b) Quantity one (1) PW operator and maintenance manual (English) in electronic format (PDF); and
- (c) A manufacturer's recommended spare parts list to support the PW for a period of three (3) years based on an annual expected usage of up to 5,000 rounds per weapon per year, including the following for each item:
  - i. Manufacturer's part number;
  - ii. NATO stock number (where available);
  - iii. Proposed quantity; and
  - iv. Unit price.

Optional procurements are detailed in Annex D.

**3.0 ENDURANCE TRIAL**

**3.1 Trial Procedure**

Each of the five (5) PWs will be subjected to an endurance test by DND as follows:

- (a) Each weapon will fire four thousand eight hundred (4800) rounds (in random order) as follows:
  - i. Twelve hundred (1200) MK316 rounds in the suppressed mode;
  - ii. Twelve hundred (1200) MK316 rounds in the un-suppressed mode;
  - iii. Twelve hundred (1200) M118LR rounds in the suppressed mode; and
  - iv. Twelve hundred (1200) M118LR rounds in the un-suppressed mode;

Note: All ammunition used in the trial will be manufactured by ATK Armaments.

- (b) No more than twenty (20) rounds will be fired per minute;
- (c) The barrel will not be changed during the endurance test;

- (d) The weapon will be cleaned prior to commencing the endurance test;
- (e) The weapon will NOT be cleaned during the endurance test; and
- (f) Oil will be added during the endurance test as required.

The Contractor will be allowed to observe the endurance trial but will not be permitted to interact with the DND Trial Team. At their discretion, the DND Trial Team may request information from the Contractor if they are present. The results of the trial will be provided to the Contractor upon request.

### 3.2 Stoppages

The weapon-related stoppages will be recorded during the endurance trial (stoppages related to ammunition defects or mis-fires will not be counted) and the outcome will be as follows:

- (a) The five (5) weapons must complete the endurance test with no more than a total of thirty (30) weapon-related stoppages for any single weapon;
- (b) At any point a weapon reaches thirty-one (31) weapon-related stoppages, the endurance test will cease, the test will be deemed a failure, and DND will not be exercising any options; and
- (c) If the endurance test is successful, with each of the five (5) weapons completing the test with less than thirty (30) stoppages, then DND may exercise options as per Annex D.



**TECHNICAL AND PERFORMANCE SPECIFICATIONS  
FOR THE  
PRECISION (7.62 MM) WEAPON**

**1.0 SCOPE**

**1.1 Background**

DND has a requirement for short to medium range (300-800 m (330-880 yd)) high precision weapons to support counter terrorism in both domestic and deployed roles where standard Canadian Forces weapons are unsuitable. This equipment will be referred to as the Precision (7.62 mm) Weapon (PW).

**1.2 Scope**

This specification defines the technical and performance requirements for the Precision (7.62 mm) Weapon (PW).

Note: There are both shall (mandatory) and should (rated) requirements within this specification. At Contract Award, all should statements will be changed to shall statements with the required values reflecting the specific performance achieved by the bidder's weapon.

**2.0 APPLICABLE DOCUMENTS**

**2.1 Applicability**

The following documents form part of this specification to the extent specified herein, and are supportive of the specification when referenced in Section 3.0 and beyond; all other document references are to be considered supplemental information only. Unless otherwise specified, the issue or amendment of documents effective for this contract shall be those in effect on the date of the Contract Award. In the event of a conflict between the documents referenced herein and the contents of the specification, then the contents of the specification shall take precedence.

- MIL-STD-810G - Test Method Standard for Environmental Engineering Considerations and Laboratory Tests ([www.everyspec.com](http://www.everyspec.com)))
- STANAG 4694 - NATO Accessory Rail (provided upon request)

**2.2 Acronyms**

AR	Armalite
dB	Decibel
MOA	Minute of Angle
MOLLE	Modular Lightweight Load-Carrying Equipment
MOTS	Military Off-The Shelf
NATO	North Atlantic Treaty Organization
PW	Precision (7.62 mm) Weapon

**2.3 Definitions**

Ambidextrous	Capability to operate the switch or control with either hand without reconfiguration of the weapon.
AR Platform	The AR rifle platform is based upon a design originally developed by Armalite Inc., and is a modular design with a two-piece receiver that permits swap out of upper assemblies of different chambering or configuration.
Positive Apply	A mechanism that controls the operation of the trigger requiring a positive

Safety	manipulation or action by the shooter to engage and disengage the disabling feature of the safety.
Two-Stage Trigger	The trigger mechanism releases the hammer (firing the weapon) after two distinct amounts of spring and mechanical resistance is overcome by the trigger finger. The initial stage is light and relatively long, and the second stage has noticeable greater resistance but over a shorter distance.

### 3.0 REQUIREMENTS

#### 3.1 Precision (7.62 mm) Weapon

The requirements for the PW are given in the following sections.

##### 3.1.1 Design/Environmental

The PW shall:

- (a) Be designed to have a life expectancy of at least seven (7) years; and
- (b) Be able to operate in MIL-STD-810G, Climatic Conditions A1, A2, A3, B1, B2, B3, C1 and C2 including exposure to climatic conditions ranging from abrasive sand of the desert to the brittle arctic cold and corrosive salt of the ocean.

##### 3.1.2 Performance

The following applies:

- (a) The PW shall:
  - i. Be a semi-automatic, gas operated precision rifle that is designed for prolonged use by the operator in a combat environment under a broad spectrum of conditions ranging from close combat to patrolling;
  - ii. Permit operator task-tailored reconfiguration including attachment and detachment of peripherals including the bipod, laser, sling, optics and suppressor; and
  - iii. Have an accuracy of no more than 1.5 MOA (11.4 cm (4.5 in)) at a range of 274 m (300 yds);
- (b) The PW should have an accuracy of less than 1.5 MOA (11.4 cm (4.5 in)) at a range of 274 m (300 yds).

##### 3.1.3 General Design

The following applies:

- (a) The PW shall:
  - i. Have a maximum weight with empty magazine, flash hider/muzzle brake (without optic or bipod) of 5.34 kg (11.75 pounds);
  - ii. Have a maximum overall length with the butt fully extended and the suppressor attached of no more than 122 cm (48 inches);
  - iii. Have a barrel as follows:
    - a. Threaded to facilitate mounting of a flash hider/muzzle brake;
    - b. A length between 38.1 - 43.2 cm (15 - 17 in);
  - iv. Have an enclosed upper receiver such that all moving components remain within the receiver when fired;
  - v. Have a low profile gas block that does not protrude above, or is incorporated into, the top rail;



- vi. Have a lower receiver based upon an AR platform that includes an ambidextrous cheek piece that is vertically adjustable to achieve proper eye relief;
  - vii. Be semi-automatic, gas operated;
  - viii. Be capable of firing suppressed;
  - ix. Be capable of firing standard NATO 7.62 x 51 mm ammunition as follows:
    - a. M118LR class ammunition; and
    - b. Mk 316 class ammunition;
- (b) The PW should have a maximum weight with empty magazine, flash hider/muzzle brake (without optic or bipod) of 3.4 kg (7.5 pounds).

#### 3.1.4 Features

The following components are included in the PW:

- (a) Safety mechanism:
  - i. The PW shall have an external positive apply safety mechanism that has the following characteristics:
    - a. Manually operated by the firer;
    - b. Capable of being checked by both sight and touch;
    - c. Movable between the safe and fire positions by the operator without moving his hands from the shooting position (prone, standing, kneeling, or sitting);
    - d. Prevents the weapon from being fired when:
      - 1. The trigger is depressed with the safety in the "SAFE" position; and
      - 2. The selector is changed to "fire" without depressing the trigger;
    - e. Remains in the position the operator sets it until it is manually changed; and
    - f. Incorporates a mechanical safety that prevents the cartridge from being fired until the bolt is fully closed and locked;
  - ii. The PW safety mechanism should be ambidextrous operational;
- (b) Firing controls:
  - i. The PW shall have ambidextrous firing controls as follows:
    - a. Mode selector; and
    - b. Cocking (charging) handle;
  - ii. The PW should have an ambidextrous magazine release.
- (c) The PW Trigger mechanism shall:
  - i. Be a two stage trigger;
  - ii. Return to its normal forward position upon release after partial or complete trigger pull; and
  - iii. Have a second stage pull force between 2 kg (4.4 pounds) and 2.7 kg (6 pounds);
- (d) Rails:
  - i. The PW shall have NATO Accessory Rail (STANAG 4694) mounts as follows:
    - a. Top Rail - A rail mounted on the top of the upper receiver (centered on the 12 o'clock position) such that:
      - 1. There is no movement between the rail system and the receiver;
      - 2. It provides at least 52 cm (20.5 in) of top space, starting from the cocking handle cut out to the front end of the rail; and
      - 3. It is not clamped or otherwise attached to the barrel such that the barrel can move independently of the rail;

- b. Side Rails - Rails mounted on each side of the upper receiver (left and right sides centered on the 3 and 9 o'clock positions) with no less than 7.6 cm (3 in) of usable rail space each; and
    - c. Bottom Rail - A rail mounted on the bottom of the upper receiver (centered on the 6 o'clock position) as follows:
      - 1. Have no less than 7.6 cm (3 in) of usable rail space; and
      - 2. Capable of being mounted anywhere on the bottom of the upper receiver;
  - ii. The PW Top Rail should be angled from back to front up to 20 MOA;
- (e) Suppressor:
  - i. The PW suppressor shall:
    - a. Be no longer than 25.4 cm (10 in);
    - b. Weigh no more than 0.6 kg (1.3 pound);
    - c. Reduce the un-suppressed firing noise by at least 16 dB with both ammunition types (Mk 316 and M118LR);
    - d. Fit over the flash hider/muzzle brake; and
    - e. Include a positive locking mechanism that prevents the suppressor from coming loose when firing;
  - ii. The PW suppressor should:
    - a. Be no longer than 12.7 cm (5 in); and
    - b. Weigh no more than 0.34 kg (0.75 pound);
- (f) The PW shall:
  - i. Have a non-reflective coyote brown corrosion-resistant finish in accordance with the manufacturer's standard specifications; and
  - ii. Incorporate self-lubricating coatings and materials that do not require grease or lubricants for the operating components;
- (g) The PW shall have a multistage collapsible or folding butt;
- (h) The PW shall have front post and rear aperture sights that are:
  - i. Removable and/or foldable; and
  - ii. Adjustable for range and azimuth;
- (i) The PW shall have an ambidextrous sling mount forward of the butt on the top rear portion of the upper receiver; and
- (j) The PW shall be properly identified with a unique Serial Number.

### 3.2 Accessories

Each PW shall have accessories as follows:

- (a) Quantity eight (8) twenty-round magazines;
- (b) Quantity four (4) double magazine pouches that are MOLLE compatible for attachment to a load-carrying vest;
- (c) Quantity one (1) operator tool/cleaning kit;
- (d) Quantity one (1) Operators Manual, in English; and

- (e) A hard-sided carrying and storage case as follows:
  - i. Sized to hold the weapon and all accessories;
  - ii. Include a weather seal on the mating sides of the case;
  - iii. Equipped with two (2) or more latching devices to provide a water-tight seal when latched;
  - iv. Include two (2) separated securing eyelets of 10 mm (0.4 in) diameter that accept 8 mm (0.3 in) diameter shackle padlocks; and
  - v. Include a one-piece foam insert that fills the void of the case that is not comprised of small tear-away cubes. The insert is not to be pre-cut in order to permit the user to custom cut the insert to suit their individual needs.



**BID EVALUATION PROCESS  
FOR THE  
PRECISION (7.62 MM) WEAPON**

**1.0 GENERAL**

**1.1 Purpose**

This document outlines the bid evaluation process for the Precision (7.62 mm) Weapon.

**1.2 Definitions**

Stoppage	A stoppage is an event during the weapon cycling process that prevents the weapon from being fired. For the purposes of this evaluation, only stoppages as a result of the weapon platform are considered, and ammunition related stoppages are not included.
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**2.0 EVALUATION**

**2.1 Evaluation Process**

To determine the most suitable contending weapon within the competitive bidding process, the Contracting Authority (CA) will base the selection on the highest combined rating of performance and price. The evaluation process will be conducted in phases as detailed in the following sections.

**2.1.1 Phase I: Bid Screening**

The Phase I evaluation will be conducted using the Phase I Bid Requirements Table found in Appendix 1. The Bidder's experience in developing, manufacturing and/or selling precision weapons and their written attestation that they can provide a precision weapon that can meet all of the performance and technical specifications in Annex B will be evaluated. Where the same weapon is submitted by two or more compliant Bidders, only the lowest cost weapon bid will be evaluated. Failure to provide all of the information requested in the table at Appendix 1 for each weapon/variant will deem the bid non-compliant for that weapon/variant. Compliant Bidders will proceed to Phase II.

**2.1.2 Phase II: Evaluation Trials and Performance Scoring**

**2.1.2.1 Bidder Participation**

Compliant Bidders will be asked to provide the following for the Evaluation Trials to be conducted at the Naval Surface Warfare Center - Crane Division, Crane, Indiana:

- (a) Five (5) weapons;
- (b) Eight (8) magazines for each weapon (forty (40) total);
- (c) MOLLE compatible pouches for the magazines (single or double pouches, doubles preferred); and
- (d) Technical support for verification and testing.

**2.1.2.2 Evaluation Trials**

Each of the weapons supplied by the Bidder will be subjected to the DND conducted Evaluation Trials (Appendix 2) as follows:

- (a) Compliance Verification - One (1) weapon chosen randomly from the five (5) weapons provided by each Bidder will be assessed by DND to verify that the weapon meets the mandatory requirements in accordance with the Compliance Verification Checklist at Appendix 3. If the weapon is found to be non-compliant with any one of the mandatory technical requirements, the reasons will be recorded and the bid will be deemed non-compliant and given no further consideration;
- (b) Rated Requirements - The rated (value added) requirements will be determined from measurement and/or observation including the weapon weight, barrel length, ambidextrous features (safety and magazine release), top rail angle, and the suppressor length and weight in accordance with Appendix 4;
- (c) Safety Inspection/Validation - Each weapon provided by the Bidders will be inspected to validate that it is safe to fire. For any weapon that is deemed unsafe to fire, the reasons will be recorded and the bid will be deemed non-compliant and given no further consideration;
- (d) Accuracy Quantification - The accuracy of the weapons will be quantified as follows:
  - i. Threshold Accuracy - If all of the weapons provided by the Bidder do not achieve the minimum threshold accuracy, conducted in the clamped condition, the bid will be deemed non-compliant and given no further consideration; and
  - ii. Scored Accuracy - The compliant weapons will then be assessed for accuracy in both the clamped and shooter conditions. Points will be awarded based on the average accuracy achieved by the five (5) weapons provided by the Bidder over and above the threshold accuracy (Appendix 5);
- (e) Proof of Concept Field Trial/ Human Factors Assessment - The accuracy achieved by the Bidder's five (5) weapons in both the clamped and shooter groupings will be averaged and ranked from the smallest to largest average accuracy. The trial consists of a series of run/shoot relays requiring the operator to fire the weapon from various positions (prone, kneeling, crouching and standing) and in both unobstructed and barricade (obstructed) conditions. Each of the Bidder's five (5) weapons will be trialed by a different participant. Following the trial, each participant will complete a human factor assessment designed to quantify the useability of the weapon in a combat environment (Appendix 6).

#### 2.1.2.3 Performance Scoring

The points achieved during the Evaluation Trials will be as follows:

Requirement	Points	Minimum Points	
Rated Requirements (Appendix 4)	out of 22	26	51
Clamped Accuracy (Appendix 5)	out of 50		
Shooter Accuracy (Appendix 5)	out of 50		
Human Factor Assessment (Appendix 6)	( <u>      </u> /325) x 50 = <u>      </u> out of 50		35
Total	out of 172		86

The minimum points must be achieved during the conduct of the trials or the weapon will be deemed non-compliant and given no further consideration as follows:

- (a) A minimum of twenty-six (26) cumulative points must be achieved in the Rated Requirements and the Clamped Accuracy trial;



- (b) A minimum of fifty-one (51) cumulative points must be achieved in the Rated Requirements and the Clamped and Shooter Accuracy trials; and
- (c) A minimum of thirty-five (35) points must be achieved in the Human Factor Assessment.

Performance Score

The Performance Score is the number of points achieved against the maximum points possible (172) as follows:

$$\text{Performance Score} = (\text{Points Achieved}/172)$$

2.1.3 Phase III: Final Evaluation

Once the Performance Score has been determined for each bid, it will be combined with the price as defined below. Best value balances the importance of the technical value of a proposal with the cost of that technical solution, and is determined using the highest combined rating of technical merit and price contractor selection method. Details on the scoring system used to obtain the Technical Merit Score, Price Score and Total Score are provided in following sections.

2.1.3.1 Technical Merit Score

The Performance Score for each proposal will be multiplied by 100 in order to obtain the Technical Merit Score (out of 100), which is then reduced depending on the number of stoppages during the Accuracy Quantification and Proof of Concept Field Trial as follows:

- (a) Up to ten (10) stoppages - Two (2) points per stoppage will be deducted from the Performance Score; and
- (b) Eleven (11) or more stoppages - The Bidder will be deemed non-compliant and given no further consideration;

$$\text{Technical Merit Score} = (\text{Performance Score} \times 100) - (\# \text{ of Stoppages} \times 2)$$

Note: The reduction in technical merit points due to stoppages is only applied after completion of the trials and is not considered in achieving the minimum points at each stage of the testing.

2.1.3.2 Price Score

The lowest price of the compliant proposals becomes the standard by which the remainder of the proposal's are evaluated. Each proposal is evaluated by taking the lowest proposal price and dividing it by the price of the proposal being evaluated, then multiplying this ratio by 100 in order to get a score out of 100, as follows:

$$\text{Price Score} = 100 \times (\text{Lowest Overall Proposal Price}/\text{Proposal Price})$$

The lowest price of the compliant proposals will have a Price Score of 100, and the remainder of the compliant proposals will have price score of up to 100 based on how much they differ from the lowest price. The lowest cost will be the bid with the lowest overall total cost for all procurements including all options.

2.1.3.3 Total Score

Each proposal's Technical Merit and Price Scores are combined to obtain a Total Score, with the highest overall score representing the proposal with the best value to DND. The assigned weighting factors (70% Technical and 30% Price) represent the extreme significance that DND has placed on the accuracy and



operational useability of the weapon. The formula to calculate the total score for each bid proposal is as follows:

$$\text{Total Score} = (70\% \times \text{Technical Merit Score}) + (30\% \times \text{Price Score})$$

The proposals will then be ranked highest to lowest Total Score. The Bidder with the highest Total Score will then be awarded a contract for five (5) weapons with optional quantities. Optional quantities will only be exercised by DND following a successful pass of the Endurance Test. Detail of the endurance test can be found in Annex A. If the endurance test is unsuccessful, then the Bidder with the next highest Total Score will be awarded a contract for five (5) weapons for endurance testing. This process will be repeated until a successful endurance test is achieved.

## APPENDIX 1 PHASE I BID REQUIREMENTS

A1

### Instructions

Bidders shall be assessed in accordance with the instructions and criteria as detailed within this document. The following instructions shall apply to the Bidder evaluation:

- (a) Mandatory requirements are identified by the word "shall". All mandatory requirements shall be met in order to meet compliance with the requirements;
- (b) For the purposes of this RFP, a Written Attestation is a written statement from the Bidder guaranteeing they will fully comply with the requirement, or portion thereof, identified in the "Requirement" column of Table 1. Canada reserves the right to verify the statements made in the Written Attestation. Written Attestation shall:
  - i. Be on official Bidder's stationery;
  - ii. Be current;
  - iii. Reference the applicable "Requirement" of Table 1;
  - iv. Provide the information identified in the "Proof of Compliance" column of Table 1; and
  - v. Have the original signature of the Bidder's designated representative.
- (c) Documentation provided with the bid shall:
  - i. Be type written (hand written submissions will not be considered); and
  - ii. Be either hard copy or in electronic format (PDF or Word).

The Bidder shall provide the following with the bid:

Table 1: Compliance Matrix

Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
1	N/A	<u>Expertise and Proven Design</u> The Bidder shall be an established weapon vendor that has significant experience in precision weapons as follows: (d) Manufacturer Qualifications -. The Bidder shall have been in the business of developing, manufacturing and/or selling precision weapons for a minimum of five (5) years;	The Bidder shall provide supporting documentation such as contracts, customer references and brochures that confirm: (1) Years of manufacturing and/or selling precision weapons for a period of at least five (5) years; and	

Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
		and (e) Proven Design - The precision weapon being offered shall be a Commercial-Off-The-Shelf (COTS) product that is in current production.	(2) The weapon is a COTS product that is in current production.	
2	3.1.1	<u>Design/Environmental</u> The PW shall: (a) Be designed to have a life expectancy of at least seven (7) years; and (b) Be able to operate in MIL-STD-810G, Climatic Conditions A1, A2, A3, B1, B2, B3, C1 and C2 including exposure to climatic conditions ranging from abrasive sand of the desert to the brittle arctic cold and corrosive salt of the ocean.	The Bidder shall provide: (1) Written Attestation that the precision weapon being offered is designed with a life expectancy of at least seven (7) years; and (2) Written Attestation that the precision weapon being offered is capable of operating in the environmental conditions specified in Section 3.1.1 (b).	
3	3.1.2	<u>Performance</u> The following applies: (c) The PW shall: i. Be a semi-automatic, gas operated precision rifle that is designed for prolonged use by the operator in a combat environment under a broad spectrum of conditions ranging from close combat to patrolling; ii. Permit operator task-tailored reconfiguration including attachment and detachment of peripherals including the bipod, laser, sling, optics and suppressor; and iii. Have an accuracy of no more than 1.5 MOA (11.4 cm (4.5 in)) at a range of 274 m (300 yds);	The Bidder shall provide Written Attestation that the precision weapon being offered is capable of meeting every aspect of the performance specified in Section 3.1.2 (a).	
4	3.1.3	<u>General Design</u> The following applies: (d) The PW shall: i. Have a maximum weight with empty magazine, flash hider/muzzle brake (without optic or bipod) of 5.34 kg (11.75 pounds); ii. Have a maximum overall length with the butt	The Bidder shall provide Written Attestation that the precision weapon being offered has the general design specified in Section 3.1.3 (a).	



Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
		<p>fully extended and the suppressor attached of no more than 122 cm (48 inches);</p> <p>Have a barrel as follows:</p> <ul style="list-style-type: none"> <li>a. Threaded to facilitate mounting of a flash hider/muzzle brake;</li> <li>b. A length between 38.1 - 43.2 cm (15 - 17 in);</li> </ul> <p>iv. Have an enclosed upper receiver such that all moving components remain within the receiver when fired;</p> <p>v. Have a low profile gas block that does not protrude above, or is incorporated into, the top rail;</p> <p>vi. Have a lower receiver based upon an AR platform that includes an ambidextrous cheek piece that is vertically adjustable to achieve proper eye relief;</p> <p>vii. Be semi-automatic, gas operated;</p> <p>viii. Be capable of firing suppressed;</p> <p>ix. Be capable of firing standard NATO 7.62 x 51 mm ammunition as follows:</p> <ul style="list-style-type: none"> <li>a. M118LR class ammunition; and</li> <li>b. Mk 316 class ammunition;</li> </ul>		
5	3.1.4	<p>Features</p> <p>The following components are included in the PW:</p> <p>(e) Safety mechanism:</p> <ul style="list-style-type: none"> <li>i. The PW shall have a positive apply safety mechanism that has the following characteristics: <ul style="list-style-type: none"> <li>a. Manually operated by the firer;</li> <li>b. Capable of being checked by both sight and touch;</li> <li>c. Movable between the safe and fire positions by the operator without moving his hands from the shooting position (prone, standing, kneeling, or sitting);</li> </ul> </li> </ul>	<p>The Bidder shall provide Written Attestation that the precision weapon being offered has the features specified in Section 3.1.4 (a) through (j).</p>	

Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
		<p>d. Prevents the weapon from being fired when:</p> <ol style="list-style-type: none"> <li>1. The trigger is depressed with the safety in the "SAFE" position; and</li> <li>2. The selector is changed to "fire" without depressing the trigger;</li> </ol> <p>e. Remains in the position the operator sets it until it is manually changed; and</p> <p>f. Incorporates a mechanical safety that prevents the cartridge from being fired until the bolt is fully closed and locked;</p> <p>(f) Firing controls:</p> <ol style="list-style-type: none"> <li>i. The PW shall have ambidextrous firing controls as follows: <ol style="list-style-type: none"> <li>a. Mode selector; and</li> <li>b. Cocking (charging) handle;</li> </ol> </li> </ol> <p>(g) PW trigger mechanism shall:</p> <ol style="list-style-type: none"> <li>i. Be a two stage trigger;</li> <li>ii. Return to its normal forward position upon release after partial or complete trigger pull; and</li> <li>iii. Have a second stage pull force between 2 kg (4.4 pounds) and 2.7 kg (6 pounds);</li> </ol> <p>(h) Rails:</p> <ol style="list-style-type: none"> <li>i. The PW shall have NATO Accessory Rail (STANAG 4694) mounts as follows: <ol style="list-style-type: none"> <li>a. Top Rail - A rail mounted on the top of the upper receiver (centered on the 12 o'clock position) such that: <ol style="list-style-type: none"> <li>1. There is no movement between the rail system and the receiver;</li> <li>2. It provides at least 52 cm (20.5 in) of top space, starting from the cocking handle cut out to the</li> </ol> </li> </ol> </li> </ol>		

Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
		<p>front end of the rail; and</p> <p>3. It is not clamped or otherwise attached to the barrel such that the barrel can move independently of the rail;</p> <p>b. Side Rails - Rails mounted on each side of the upper receiver (left and right sides centered on the 3 and 9 o'clock positions) with no less than 7.6 cm (3 in) of usable rail space each; and</p> <p>c. Bottom Rail - A rail mounted on the bottom of the upper receiver (centered on the 6 o'clock position) as follows:</p> <ol style="list-style-type: none"> <li>1. Have no less than 7.6 cm (3 in) of usable rail space; and</li> <li>2. Capable of being mounted anywhere on the bottom of the upper receiver;</li> </ol> <p>(i) Suppressor:</p> <ol style="list-style-type: none"> <li>i. The PW suppressor shall: <ol style="list-style-type: none"> <li>a. Be no longer than 25.4 cm (10 in);</li> <li>b. Weigh no more than 0.6 kg (1.3 pound);</li> <li>c. Reduce the un-suppressed firing noise by at least 16 dB with both ammunition types (Mk 316 and M118LR);</li> <li>d. Fit over the flash hider/muzzle brake; and</li> <li>e. Include a positive locking mechanism that prevents the suppressor from coming loose when firing;</li> </ol> </li> <li>ii. The PW shall: <ol style="list-style-type: none"> <li>i. Have a non-reflective coyote brown corrosion-resistant finish in accordance with the manufacturer's standard specifications; and</li> <li>ii. Incorporate self-lubricating coatings and materials</li> </ol> </li> </ol>		



Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
		<p>that do not require grease or lubricants for the operating components;</p> <p>(k) The PW shall have a multistage collapsible or folding butt;</p> <p>(l) Have front post and rear aperture sights that are:</p> <ol style="list-style-type: none"> <li>Removable and/or foldable; and</li> <li>Adjustable for range and azimuth;</li> </ol> <p>(m) The PW shall have an ambidextrous sling mount forward of the butt on the top rear portion of the upper receiver; and</p> <p>(n) The PW shall be properly identified with a unique Serial Number.</p>		
6	3.1.5	<p><u>Accessories</u></p> <p>Each PW shall have accessories as follows:</p> <p>(o) Quantity eight (8) twenty-round magazines;</p> <p>(p) Quantity four (4) double magazine pouches that are MOLLE compatible for attachment to a load-carrying vest;</p> <p>(q) Quantity one (1) operator tool/cleaning kit;</p> <p>(r) Quantity one (1) Operators Manual, in English; and</p> <p>(s) A hard-sided carrying and storage case as follows:</p> <ol style="list-style-type: none"> <li>Sized to hold the weapon and all accessories;</li> <li>Include a weather seal on the mating sides of the case;</li> <li>Equipped with two (2) or more latching devices to provide a water-tight seal when latched;</li> <li>Include two (2) separated securing eyelets of 10 mm (0.4 in) diameter that accept 8 mm (0.3 in) diameter shackle padlocks; and</li> <li>Include a one-piece foam insert that fills the void of the case that is not comprised of small tear-away cubes. The insert is not to be pre-cut in order to permit the user to custom cut the insert to suit their individual needs.</li> </ol>	<p>The Bidder shall provide Written Attestation that the precision weapon being offered will be supplied with the accessories specified in Section 3.1.5 (a) through (e).</p>	

Item #	Ref. (Annex B)	Requirement	Proof of Compliance	Compliant (Y/N)
7		vi.  Brochures	<p>The Bidder shall provide a brochure(s) that provides the details of the following (minimum):</p> <ul style="list-style-type: none"> <li>- Make</li> <li>- Model</li> <li>- Calibre</li> <li>- Barrel (length, construction, material, rifling, twist)</li> <li>- Trigger design</li> <li>- Safety mechanisms</li> <li>- Receiver (make, model, construction)</li> <li>- Gas regulator (design and operation)</li> <li>- Suppressor</li> <li>- Stock design</li> <li>- Rails</li> </ul>	



## APPENDIX 2 EVALUATION TRIALS

A2

A3

### A3.1 Scope

This appendix details the evaluation trials for the Precision (7.62 mm) Weapon (PW).

### A3.2 Bidder Participation

The compliant Bidders shall provide five (5) weapons and accessories, as detailed in Annex C Section 2.1.1 for testing, to be conducted by DND at the Naval Surface Warfare Center - Crane Division, Crane, Indiana. Additional equipment (optics, bipod, etc.) will be provided and installed by DND. A maximum of four hundred (400) rounds will be fired from each weapon to complete the evaluation trials. Each Bidder will be expected to provide support to DND during testing consisting of a minimum of one (1) individual to a maximum of two (2) individuals. The evaluation testing is planned for approximately one (1) day per Bidder, with a second day in case of inclement weather. The Bidder's personnel will be permitted to witness and assist (at the discretion of DND) the Compliance Verification, Safety Inspection/Validation and Accuracy Quantification portions of the trials and the results of these trials may be provided to each Bidder for their weapon only. The Bidder's personnel may be on site for the Proof of Concept Field Trial, but will not be permitted to witness any portion of the Human Factors Assessment. The results of the Human Factors Assessment will be provided.

### A3.3 Evaluation Trials

The Evaluation Trials include the following:

- (a) Compliance Verification;
- (b) Rated Requirements;
- (c) Safety Inspection/Verification;
- (d) Accuracy Quantification; and
- (e) Proof of Concept Field Trial/ Human Factors Assessment.

Each of these is detailed in the following sections.

#### A3.3.1 Compliance Verification

The weapons provided by each Bidder will be assessed by the DND technical team, consisting of subject matter experts lead by the DND Technical Authority (TA) at the Naval Surface Warfare Center - Crane Division, Crane, Indiana. One (1) weapon will be chosen at random from the five (5) weapons provided by the Bidder to be assessed against the mandatory technical requirements in the Compliance Verification Checklist at Appendix 3. The assessment will include measurement, weighing and physical examination of each component of the weapon in order to verify that the weapon meets the mandatory requirements. If the weapon is found to be non-compliant with any one of the mandatory technical requirements, the reasons will be recorded and the bid will be deemed non-compliant and given no further consideration. Following the examination, the Bidder will verify that the weapon has been reassembled correctly and is safe to fire.

#### A3.3.2 Rated Requirements

The rated (value added) requirements from Annex B will then be determined by DND, and scored in accordance with Appendix 4.

#### A3.3.3 Safety Inspection/Validation

Prior to firing any weapon, a complete safety inspection will be conducted by a qualified DND Weapons Technician. For any weapon that is deemed unsafe to fire, the reasons will be recorded and the bid will be deemed non-compliant and given no further consideration. The safety inspection will include the following:

- (a) Design safety and suitability assessment to include;
  - i. Firing pin protrusion (must meet gauging limits for the weapon – min/max);
  - ii. Firing pin energy (enough to prevent misfire);
  - iii. Headspace (verified with go/no go gauge); and
  - iv. Barrel bore straightness (gauge shall pass freely through the barrel);
- (b) Feed system safety (determination of the possibility of double feeding); and
- (c) Interchangeability of parts that precludes misfire due to a changed part.

#### A3.3.4 Accuracy Quantification

Weapons that are deemed safe to fire will then undergo a series of accuracy trials, conducted by DND, on the indoor/outdoor test firing range the Naval Surface Warfare Center - Crane Division, Crane, Indiana as follows:

- (a) Threshold Accuracy as follows (Pass/Fail):
  - i. Threshold Accuracy will be conducted with the weapon in the clamped condition utilizing an "Over the Top" clamp on a fixed mount with a recoil buffer;
  - ii. All five (5) weapons provided by each Bidder will fire four (4) target groupings of five (5) rounds of MK316 ammunition, for a total of twenty (20) rounds per weapon, at a range of 274 m (300 yds);
  - iii. DND reserves the right to reshoot any grouping if there was an anomaly in the grouping compared to the other groupings by that weapon;
  - iv. Stoppages attributable to the weapon will be recorded;
  - v. All grouping sizes will be determined by measuring the extreme spread interior to exterior as verified by DND, and recorded on the Accuracy Trial Test Sheet at Appendix 5;
  - vi. To be successful, all four (4) groupings for each of the five (5) weapons must be less than 11.43 cm (4.5 in) otherwise the weapon will be deemed non-compliant and given no further consideration; and
  - vii. The weapons will be cleaned after completion of the Threshold Accuracy trial;
- (b) Clamped Accuracy as follows (Scored):
  - i. Clamped Accuracy will be conducted with the weapon in the clamped condition utilizing an "Over the Top" clamp on a fixed mount with a recoil buffer;
  - ii. All five (5) weapons provided by each Bidder will fire eight (8) target groupings of five (5) rounds of MK316 ammunition, for a total of forty (40) rounds per weapon, at a range of 274 m (300 yds);
  - iii. DND reserves the right to reshoot any grouping if there was an anomaly in the grouping compared to the other groupings by that weapon;
  - iv. Stoppages attributable to the weapon will be recorded;



- v. All grouping sizes will be determined by measuring the extreme spread interior to exterior as verified by DND, and recorded on the Accuracy Trial Test Sheet at Appendix 5;
  - vi. If one (1) or more weapons has a grouping of more than 11.43 cm (4.5 in), the weapon will be deemed non-compliant and given no further consideration; and
  - vii. The weapons will be cleaned after completion of the Clamped Accuracy trial;
- (c) Shooter Accuracy as follows (scored):
- i. Shooter Accuracy will be conducted with the weapon in the hands of a DND sniper from the prone position;
  - ii. All five (5) weapons provided by each Bidder will fire eight (8) target groupings of five (5) rounds of MK316 ammunition, for a total of forty (40) rounds per weapon, at a range of 274 m (300 yds);
  - iii. DND reserves the right to reshoot any grouping if there was an anomaly in the grouping compared to the other groupings by that weapon;
  - iv. Stoppages attributable to the weapon will be recorded;
  - v. All grouping sizes will be determined by measuring the extreme spread interior to exterior as verified by DND, and recorded on the Accuracy Trial Test Sheet at Appendix 5. Only the top six (6) groupings will be evaluated for purposes of Performance Scoring;
  - vi. If one (1) or more weapons has a grouping of more than 11.43 cm (4.5 in), the weapon will be deemed non-compliant and given no further consideration; and
  - vii. The weapons will be cleaned after completion of the Shooter Accuracy trial.

#### A3.3.5 Proof of Concept Field Trial/Human Factors Assessment

The aim of the Proof of Concept (POC) trial is to evaluate the impact of the weapon on the soldier mobility, survivability and lethality. The trials will consider both the soldiers ability to effectively move and fire the weapon under simulated combat conditions. The trial will be conducted on the outdoor test firing range at the Naval Surface Warfare Center - Crane Division facility. The trial will be rated qualitatively through the use of a systematic user rating (Appendix 6).

##### A3.3.5.1 Participant Assessment

There will be five (5) DND participants conducting the Proof of Concept Field trial, and each participant will conduct the trial with each of the Bidder's weapons such that each of the five weapons provided by the Bidder are trialed by a different participant. Each participant will provide an evaluation at the completion of the Proof of Concept Field Trial for each of the weapons trialed. The participant evaluations will be recorded on the Participant Assessment form given in Appendix 6. The score assigned to the Bidder will be the sum of the five (5) individual assessments from the participants. The participants' evaluations will be captured by individual ratings of various criteria using a non-biased approach to collecting subjective perception. Participant rating will be based upon a 5-point scale (Table 2) for general task compatibility criteria which provides a clear and understandable quantification of the participants' perceptions in a controlled manner that does not rely on unbridled opinion.

Table 2: 5-Point Scale

Rating	Subjective Perception
1	Completely Unacceptable
2	Reasonably Unacceptable
3	Borderline
4	Reasonably Acceptable
5	Completely Acceptable

### A3.3.5.2 Trial Conduct

The participants will complete the Proof of Concept Field Trial as follows:

- (a) Each participant will wear Canadian Forces issue combat dress, boots and helmet, and a load carrying vest to hold the magazine pouches required for the trial;
- (b) Weapons will be trialed in a random order of Bidders and no more than two (2) weapons from two (2) separate Bidders will be trialed by a participant on the same day;
- (c) Additional days will be allocated in case of inclement weather that would affect the outcome of the trials;
- (d) Each Target Point will have two (2) target frames that are 122 cm x 122 cm (4 ft x 4 ft);
- (e) Barricades will be available at each firing point to simulate firing from either shoulder around an obstacle;
- (f) Each participant will complete the POC Relay Course (Figure 1) **without** barricades as follows:
  - i. Begin at the Start Point with the weapon and eight (8) magazines loaded with ten (10) rounds of MK 316 ammunition;
  - ii. Sprint to the Fire Point (Prone), adopt the prone position and fire two (2) magazines of ten (10) rounds each into the left target frame at Target Point 1;
  - iii. Sprint to the Fire Point (Kneeling), adopt the kneeling position and fire two (2) magazines of ten (10) rounds each into the right target frame at Target Point 1;
  - iv. Sprint to the Fire Point (Crouching), adopt the crouching position and fire two (2) magazines of ten (10) rounds each into the left target frame at Target Point 2; and
  - v. Sprint to the Fire Point (Standing), from a standing position fire two (2) magazines of ten (10) rounds each into the right target frame at Target Point 2;

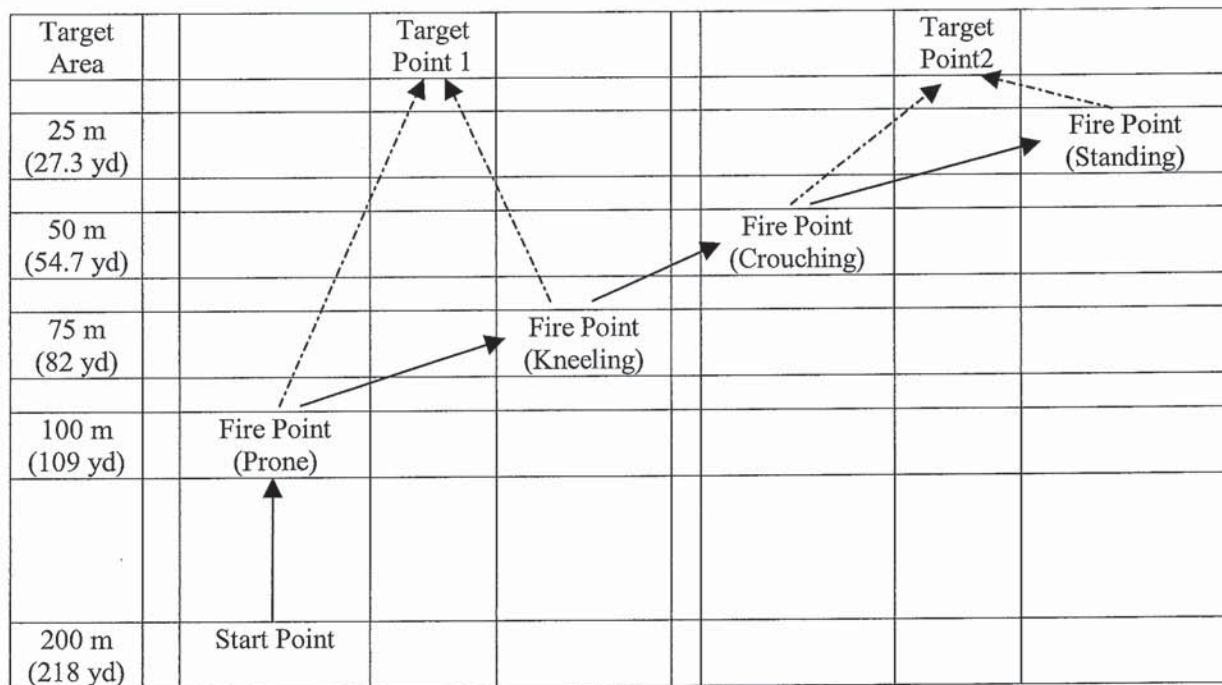


Figure 1: POC Relay Course



- (g) Each participant will complete the relay course (Figure 1) **with** barricades as follows:
  - i. Begin at the Start Point with the weapons and eight (8) magazines loaded with ten (10) rounds of MK 316 ammunition;
  - ii. Sprint to the Fire Point (Prone), adopt the prone position and fire two (2) magazines of ten (10) rounds each into the left target frame at Target Point 1 with one (1) magazine fired from the right hand side of the barricade and the other magazine from the left hand side of the barricade;
  - iii. Sprint to the Fire Point (Kneeling), adopt the kneeling position and fire two (2) magazines of ten (10) rounds each into the right target frame at Target Point 1 with one (1) magazine fired from the right hand side of the barricade and the other magazine from the left hand side of the barricade;
  - iv. Sprint to the Fire Point (Crouching), adopt the crouching position and fire two (2) magazines of ten (10) rounds each into the left target frame at Target Point 2 with one (1) magazine fired from the right hand side of the barricade and the other magazine from the left hand side of the barricade;
  - v. Sprint to the Fire Point (Standing), from a standing position fire two (2) magazines of ten (10) rounds each into the right target frame at Target Point 2 with one (1) magazine fired from the right hand side of the barricade and the other magazine from the left hand side of the barricade; and
  - vi. Each participant will then complete the evaluation questionnaire at 0
- (h) Stoppages - During the course of the Evaluation Trial, including both the accuracy trials and the Proof of Concept field trials, the weapon-related stoppages that are not attributable to the ammunition will be recorded; and
- (i) The weapons will be cleaned prior to return to the vendor;

Note: All ammunition used in the accuracy and field trials will be manufactured by ATK Armaments.

### APPENDIX 3 COMPLIANCE VERIFICATION CHECKLIST

All requirements are mandatory.

Item	Requirement	Compliant (Y/N)
3.1.2 (a)	i. Be a semi-automatic, gas operated precision rifle	
	ii. Permit attachment and detachment of peripherals including the bipod, laser, sling, optics and suppressor	
3.1.3(a)	i. Have a maximum weight with empty magazine, flash hider/muzzle brake (without optic or bipod) of 5.34 kg (11.75 pounds)	
	ii. Have a maximum overall length with the butt fully extended and the suppressor attached of no more than 122 cm (48 inches)	
	iii. Have a barrel as follows: a. Threaded to facilitate mounting of a flash hider/muzzle brake; b. A length between 38.1 - 43.2 cm (15 - 17 in)	
	iv. Have an enclosed upper receiver such that all moving components remain within the receiver when fired	
	v. Have a low profile gas block that does not protrude above, or is incorporated into, the top rail	
	vi. Have a lower receiver based upon an AR platform that includes an ambidextrous cheek piece that is vertically adjustable to achieve proper eye relief	
3.1.4(a)	i. The shall have a positive apply safety mechanism that has the following characteristics: a. Manually operated by the firer; b. Capable of being checked by both sight and touch; c. Movable between the safe and fire positions by the operator without moving his hands from the shooting position (prone, standing, kneeling, or sitting); d. Prevents the weapon from being fired when: 1. The trigger is depressed with the safety in the "SAFE" position; and 2. The selector is changed to "fire" without depressing the trigger; e. Remains in the position the operator sets it until it is manually changed; and f. Incorporates a mechanical safety that prevents the cartridge from being fired until the bolt is fully closed and locked	
3.1.4(b)	i. The PW shall have ambidextrous firing controls as follows: a. Mode selector; and b. Cocking (charging) handle	
3.1.4(c)	The PW trigger mechanism shall: i. Be a two stage trigger; ii. Return to its normal forward position upon release after partial or complete trigger pull; and iii. Have a second stage pull force between 2 kg (4.4 pounds) and 2.7 kg (6 pounds)	
3.1.4(d)	i. The PW shall have NATO Accessory Rail (STANAG 4694) mounts as follows: a. Top Rail - A rail mounted on the top of the upper receiver (centered on the 12 o'clock position) such that: 1. There is no movement between the rail system and the receiver:	



	<p>2. It provides at least 52 cm (20.5 in) of top space, starting from the cocking handle cut out to the front end of the rail; and</p> <p>3. It is not clamped or otherwise attached to the barrel such that the barrel can move independently of the rail;</p> <p>b. Side Rails - Rails mounted on each side of the upper receiver (left and right sides centered on the 3 and 9 o'clock positions) with no less than 7.6 cm (3 in) of usable rail space each; and</p> <p>c. Bottom Rail - A rail mounted on the bottom of the upper receiver (centered on the 6 o'clock position) as follows:</p> <ol style="list-style-type: none"> <li>1. Have no less than 7.6 cm (3 in) of usable rail space; and</li> <li>2. Capable of being mounted anywhere on the bottom of the upper receiver;</li> </ol>	
3.1.4(e)	<p>i. The PW suppressor shall:</p> <ol style="list-style-type: none"> <li>a. Be no longer than 25.4 cm (10 in);</li> <li>b. Weigh no more than 0.6 kg (1.3 pound);</li> <li>d. Fit over the flash hider/muzzle brake; and</li> <li>e. Include a positive locking mechanism that prevents the suppressor from coming loose when firing</li> </ol>	
3.1.4(f)	The PW shall have a multistage collapsible or folding butt	
3.1.4(g)	<p>Have front post and rear aperture sights that are:</p> <ol style="list-style-type: none"> <li>i. Removable and/or foldable; and</li> <li>ii. Adjustable for range and azimuth</li> </ol>	
3.1.4(h)	The PW shall have an ambidextrous sling mount forward of the butt on the top rear portion of the upper receiver	
3.1.4(i)	<p>The PW shall have a finish (PW and all of its components) as follows:</p> <ol style="list-style-type: none"> <li>i. A non-reflective coyote brown corrosion-resistant finish in accordance with the manufacturer's standard specifications; and</li> <li>ii. Incorporate self-lubricating coatings and materials that do not require grease or lubricants for the operating components</li> </ol>	
3.1.4(j)	The PW shall be properly identified with a unique Serial Number.	

#### APPENDIX 4 RATED REQUIREMENTS

Item #	Requirement	Verification (Measured/Observed)	Points
3.1.3(b)	<u>General Design</u> The PW should have a maximum weight with empty magazine, flash hider/muzzle brake (without optic or bipod) of 3.4 kg (7.5 pounds).	Weight: _____ kg	_____ out of 10
3.1.4(a)ii	<u>Safety</u> The PW safety mechanism should be ambidextrous operational.	No / Yes	_____ out of 0.5
3.1.4(b)ii	<u>Firing Controls</u> The PW should have an ambidextrous magazine release.	No / Yes	_____ out of 0.5
3.1.4(d)ii	<u>Top Rail Angle</u> The PW Top Rail should be angled from back to front up to 20 MOA.	Angle: _____ MOA	_____ out of 3
3.1.4(e)ii	<u>Suppressor</u> The PW suppressor should: Be no longer than 12.7 cm (5 in);  Weigh no more than 0.34 kg (0.75 pound).	Length: _____ cm  Weight: _____ kg	_____ out of 4  _____ out of 4
Total			_____ out of 22

Note: Item # refers to the relevant section in Annex B.

The points awarded are as follows:

Weight (Weapon)					
Weight (Less Than)	5.34 kg (11.75 lbs)	4.43 kg (9.75 lbs)	4.09 kg (9 lbs)	3.75 kg (8.25 lbs)	3.41 kg (7.5 lbs)
Points	0.5	1.5	4	7	10
Ambidextrous Safety AND Ambidextrous Magazine Release					
Ambidextrous	No	Yes			
Points (each)	0	0.5			
Top Rail Angle					
Rail Angle (More Than)	0 MOA	10 MOA	20 MOA		
Points	0	1.5	3		
Suppressor					
Length (Less Than)	25.4 cm (10 in)	22.86 cm (9 in)	19.69 cm (7.75 in)	12.7 cm (5 in)	
Points	0.5	1	2	4	
Weight (Less Than)	0.6 kg (1.3 lbs)	0.5 kg (1.1 lbs)	0.4 kg (0.9 lbs)	0.34 kg (0.75 lbs)	
Points	0.5	1	2	4	



## APPENDIX 5 ACCURACY TRIAL TEST SHEET

The information in this Appendix is provided for completeness and the Bidder shall not fill in the tables.

### Threshold Accuracy

For compliance, all groupings must be less than or equal to 11.43 cm (4.5 in). No points are awarded for threshold accuracy.

Weapon Serial #	1st Grouping	2nd Grouping	3rd Grouping	4th Grouping	Compliant (Y/N)
Company Compliant					

### Stoppages (Threshold Accuracy)

Weapon Serial #	Stoppages
Total	

### Clamped Accuracy

For compliance, all groupings must be less than or equal to 11.43 cm (4.5 in).

Weapon Serial #	Grouping								Average cm (in)
	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	6 (cm)	7 (cm)	8 (cm)	
Bidder Average									
Bidder Points									

Grouping (Less Than)	11.43 cm (4.5 in)	9.53 cm (3.75 in)	7.62 cm (3 in)	5.72 cm (2.25 in)	3.81 cm (1.5 in)
Points	15	17.5	25	35	50

### Stoppages (Clamped Accuracy)

Weapon Serial #	Stoppages
Total	

### Shooter Accuracy

For compliance, all groupings must be less than or equal to 11.43 cm (4.5 in).

Weapon Serial #	Grouping								Average cm (in) (Best 6 only)
	1 (cm)	2 (cm)	3 (cm)	4 (cm)	5 (cm)	6 (cm)	7 (cm)	8 (cm)	
Bidder Average									
Bidder Points									

Grouping (Less Than)	11.43 cm (4.5 in)	9.53 cm (3.75 in)	7.62 cm (3 in)	5.72 cm (2.25 in)	3.81 cm (1.5 in)
Points	10	15	25	37.5	50

### Stoppages (Shooter Accuracy)

[illegible]

Note: All stoppages will be included from all eight (8) groupings.

### Stoppages Summary

Threshold Accuracy	
Clamped Accuracy	
Shooter Accuracy	
Proof of Concept Field Trial	
Total	

## APPENDIX 6 HUMAN FACTORS ASSESSMENT

Weapon: \_\_\_\_\_  
Participant: \_\_\_\_\_

Rate the following:	Compatibility Assessment					Remarks
	⊗	1	2	3	4	5
Weapon ease of firing in all positions.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weapon loading and reloading in all positions.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cartridge ejection pattern.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heat transfer from weapon to operator.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blast noise.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Effect of recoil.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Butt length, shape and adjustability.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shape of the handgrip.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shape of the trigger.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evenness of trigger pull.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Size, shape, positioning, accessibility and ease of operation of safety and firing controls.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Operator maintenance (strip and clean).		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overall performance.		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total					out of 65	

ASSESSMENT SCALE				
1	2	3	4	5
Completely Unacceptable	Reasonably Unacceptable	Borderline	Reasonably Acceptable	Completely Acceptable

DEFINITIONS	
1	Completely Unacceptable The weapon did not meet any requirements for the task and had severe limitations that would prevent the operator from completing the task.
2	Reasonably Unacceptable The weapon met the minimal requirements for the task and had some limitations that may prevent the

		operator from completing the task.
3	Borderline	The weapon met some of the requirements for the task and performed in a manner that would permit the operator to complete the task with limitations on range of use.
4	Reasonably Acceptable	The weapon met most of the requirements for the task and performed well in the hands of the operator with only minor limitations.
5	Completely Acceptable	The weapon met or exceeded all requirements for the task and performed in every way expected by the operator.

#### **Human Factors Summary**

The summary of all participant's assessments are as follows:

Participant	Score
1	out of 65
2	out of 65
3	out of 65
4	out of 65
5	out of 65
Total	out of 325



**OPTIONAL PROCUREMENTS  
FOR THE  
PRECISION (7.62 MM) WEAPON SYSTEM**

**1.0 SCOPE**

**1.1 Purpose**

The purpose of this document is to describe the optional procurements for Precision (7.62 mm) Weapons (PWs).

**2.0 APPLICABLE DOCUMENTS**

**2.1 Applicability**

The following documents form part of this document to the extent specified herein, and are supportive of this document when referenced in Section 3.0 and beyond; all other document references are to be considered supplemental information only. Unless otherwise specified, the issue or amendment of documents effective for this contract shall be those in effect on the date of the Contract Award. In the event of a conflict between the documents referenced herein and the contents of this document, then the contents of this document shall take precedence.

- CFTO D-01-400-002/SF-000 Specification for Levels of Engineering Drawings and Associated Lists (provided upon request)
- MILHDBK-61A Configuration Management Guidance ([www.everyspec.com/](http://www.everyspec.com/))

**2.2 Acronyms**

DND	Department of National Defence
ISO	International Standards Organization
NATO	North Atlantic Treaties Organization
NSN	NATO Stock Number
PA	Procurement Authority
RMA	Return Material Authorization
TA	Technical Authority
TDP	Technical Data Package

**3.0 DELIVERABLES**

DND is under no obligation to purchase any additional Precision (7.62 mm) Weapon Systems. Should DND decide to exercise additional options, the Contractor shall deliver the following:

- (a) Year 1 optional deliverables (to be exercised within twelve (12) months of Contract Award) to be delivered within ninety (90) days of receipt of order:
  - i. Thirty (30) PWs in accordance with the Technical and Performance Requirements at Annex B;
  - ii. Three (3) maintenance gauge tool kits;
  - iii. A Technical Data Package (TDP) as detailed in Section 3.2; and
  - iv. In-Service Support as detailed in Section 4.3.
- (b) Year 2 optional deliverables (to be exercised within twenty-four (24) months of Contract Award) to be delivered within ninety (90) days of receipt of order:

- i. Up to thirty (30) PWs in accordance with the Technical and Performance Requirements at Annex B; and
- ii. Up to quantity three (3) maintenance gauge tool kits.

### 3.1 Kickoff Meeting

The Contractor shall hold a kickoff meeting at its facilities within two (2) weeks of Contract Award. This meeting will be used to introduce the DND project team and to discuss production timelines, Quality Assurance processes, and delivery options and locations.

### 3.2 Technical Data Package (TDP)

The Contractor shall provide an initial TDP to DND, in English, no later than two (2) weeks prior to initial delivery of equipment (Address to be provided after contract award). The TDP package shall include:

- (a) Two (2) hard copies and one (1) electronic copy (MS Word or PDF format) of the Operators Manual. A hard copy of the Operators Manual shall also be included with each PW delivered;
- (b) Two (2) hard copies and one (1) electronic copy (MS Word or PDF format) of the Maintenance/Repair Manual;
- (c) Two (2) hard copies of the system drawing(s) for the PW down to the component and sub-component level (Level 2 in accordance with D-01-400-002/SF-000), with the following information in electronic format (MS Excel) for each item:
  - i. Official Item Name;
  - ii. NCage (Manufacturer Code);
  - iii. Manufacturer Part Number;
  - iv. Price;
  - v. Volume of Item;
  - vi. Weight of Item; and
  - vii. Shelf Life of Item.
- (d) A list of all Special Tools and Test Equipment required to operate and/or maintain the PW, with the following information in electronic format (MS Excel) for each item:
  - i. Official Item Name;
  - ii. NCage (Manufacturer Code);
  - iii. Manufacturer Part Number;
  - iv. Price;
  - v. Volume of Item;
  - vi. Weight of Item; and
  - vii. Shelf Life of Item.

#### 3.2.1 Reproduction/Translation Rights

The Contractor shall provide an authorizing letter granting the Government of Canada permission to translate and print copies of the TDP for Canada's internal use only.

## 4.0 **REQUIREMENTS**

### 4.1 Quality Assurance

The Contractor shall:



- (a) Establish, implement, document and maintain a quality system that ensures conformance to contractual requirements and meets the objectives of the ISO 9001 or equivalent quality system model during performance of this contract; and
- (b) Conduct Quality Conformance Inspections and Tests during manufacture in accordance with the Contractor's standard acceptance test plan. Details of the test plan, and documentation of all inspections/tests, are to be provided to DND upon request. DND reserves the right to send a representative(s) to witness production acceptance testing for all PWs.

#### 4.1.1 Testing

The Contractor shall make available (upon request) for DND's review, all previous and current test results concerning the performance, reliability, maintainability, availability, environmental conditions and safety of the PW.

#### 4.1.2 Performance and Failure Reporting

Prior to delivery, and for the period of the contract, the Contractor shall maintain records of all equipment failures and notify DND of any and all performance related issues that would either positively or negatively impact the reliability, maintainability, availability and/or supportability of the PW. In support of reliability improvement, mass system failures are to be analyzed in order to determine corrective actions.

#### 4.1.3 Configuration Management (CM)

The Contractor shall have an established, DND verifiable, Configuration Management (CM) Program with control systems in place in accordance with MIL-HDBK-61A, and shall provide configuration identification, control and status accounting of all new and/or modified hardware, firmware, software and documentation. All PWs delivered shall have the same product baseline and support interchangeability/interoperability of parts. The established product baseline shall be maintained during repair and any deviation from the baseline shall be approved in advance by the TA.

#### 4.1.4 Production Performance Verification

Prior to the delivery of any PWs, DND reserves the right to perform a Quality Assurance Performance Verification test. The verification test will be conducted by DND and will take place at the Naval Surface Warfare Center - Crane Division, Crane, Indiana under the same conditions and using the same ammunition (both type and lot number) as the accuracy trials conducted during the bid evaluation. Production Performance Verification testing will be against a randomly selected group of weapons (maximum five (5) weapons) from the delivery lot. The accuracy of the weapons must be within +10% of the average accuracy achieved by the weapon systems during the bid evaluation accuracy trials (clamped), without exceeding the threshold accuracy of 11.4 cm (4.5 in) at a range of 274 m (300 yds), for the delivery lot to be considered acceptable. The Contractor shall not deliver any PWs to DND locations from a delivery lot until an acceptable Production Performance Verification test has been achieved and release of the lot has been authorized by the PA. Failure of the Production Performance Verification test will result in the requirement to modify the weapon system and re-testing or, in the case of repeated test failure, cancellation of the Contract.

#### 4.2 Warranty

The Contractor shall provide a warranty on the PW against manufacturer defects and workmanship for twelve (12) months following delivery of the unit, including parts and labour, at no additional cost to DND. The warranty period for each delivery is to be based on the date the delivery is shipped from the Contractor's facilities to the DND final delivery point.

#### 4.3 TDP Support

The Contractor shall produce and maintain the PW TDP, including updated drawings and manuals, to the currently approved configuration and provide to the TA (when requested), during the warranty period, updated versions of the TDP. All updates to the TDP are to be approved by the DND TA prior to being promulgated.



## ANNEX E

### BASIS OF PAYMENT

1. Bids must be submitted in Canadian dollars.

A.

Item	Description	Qty	Estimated Unit Price	Extended Price
001	Precision Weapons in accordance with Annex B	5	\$	\$
Total A (CAN \$)				\$

B. OPTION YEAR 1

Item	Description	Qty	Estimated Unit Price	Extended Price
002	Precision Weapons in accordance with Annexes B and D	30	\$	\$
003	Maintenance Gauge Tool Kits	3	\$	\$
004	Technical Data Package (TDP) in accordance with Section 3.2 of Annex D	1	\$	\$
Total B (CAN \$)				\$

C. OPTION YEAR 2

Item	Description	Qty	Estimated Unit Price	Extended Price
005	Precision Weapons in accordance with Annexes B and D	30	\$	\$
006	Maintenance Gauge Tool Kits	3	\$	\$
Total C (CAN \$)				\$

2. Total Evaluated Price = Total A + Total B + Total C = \$ \_\_\_\_\_