

**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

Title - Sujet COTS PORTABLE INFANTRY TARGET SYS.	
Solicitation No. - N° de l'invitation W6399-13EC77/A	Date 2014-03-27
Client Reference No. - N° de référence du client W6399-13EC77	
GETS Reference No. - N° de référence de SEAG PW-\$\$BM-015-24409	
File No. - N° de dossier 015bm.W6399-13EC77	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-05-01	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Cadotte (bm div.), John	Buyer Id - Id de l'acheteur 014bm
Telephone No. - N° de téléphone (819) 956-0218 ()	FAX No. - N° de FAX (819) 956-5650
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: See herein.	

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

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

Solicitation No. - N° de l'invitation

W6399-13EC77/A

Amd. No. - N° de la modif.

File No. - N° du dossier

015bmW6399-13EC77

Buyer ID - Id de l'acheteur

015bm

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

W6399-13EC77

CCC No./N° CCC - FMS No/ N° VME

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Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION

1. Introduction
2. Summary
3. Debriefings

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions
2. Submission of Bids
3. Former Public Servant
4. Enquiries - Bid Solicitation
5. Applicable Laws

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures
2. Basis of Selection

PART 5 - CERTIFICATIONS

1. Mandatory Certifications Required Precedent to Contract Award

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

N/A

PART 7 - RESULTING CONTRACT CLAUSES

1. Statement of Work
2. Standard Clauses and Conditions
3. Security Requirement
4. Term of Contract
5. Authorities
6. Proactive Disclosure of Contracts with Former Public Servants
7. Payment
8. Invoicing Instructions
9. Certifications
10. Applicable Laws

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

-
11. Priority of Documents
 12. Defence Contract
 13. SACC Manual Clauses
 14. Insurance
 15. Preparation for Delivery
 16. Shipping Instructions - Delivery at Destination
 17. Customs Duties - Contractor Importer

List of Annexes:

- | | |
|-----------|---|
| Annex "A" | Statement of Work |
| Annex "B" | Basis of Payment |
| Annex "C" | Federal Contractors Program for Employment Equity - Certification |

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

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 and the Basis of Payment.

2. SUMMARY

The Department of National Defence has a requirement for a Commercial off the Shelf (COTS) PITS. The PITS will be used to maintain a high level of weapons and tactical proficiency through live-fire outdoors training 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.

The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).
The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA).
The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP).

There is a Federal Contractors Program (FCP) for employment equity requirement associated with this procurement; see Part 5 - Certifications, Part 7 - Resulting Contract Clauses and the annex named Federal Contractors Program for Employment Equity - Certification.

3. DEBRIEFINGS

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

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 (2014-03-01) 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: ninety (90) days

1.1 SACC Manual 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.

3. FORMER PUBLIC SERVANT

N/A

4. 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.

5. APPLICABLE LAWS

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

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

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>). 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.

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

Section II: Financial Bid

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

1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), 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 evaluation criteria.

(b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Technical Evaluation

Mandatory technical evaluation criteria are included in Annex A.

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

2. BASIS OF SELECTION

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

PART 5 - CERTIFICATIONS

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

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

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

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

1. MANDATORY CERTIFICATIONS REQUIRED PRECEDENT TO CONTRACT AWARD

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website

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

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

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

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

N/A

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

PART 7 - RESULTING CONTRACT CLAUSES

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

1. STATEMENT OF WORK

The Contractor must provide the items in accordance with the Statement of Work at Annex "A" and the Contractor's technical bid entitled _____, dated _____.

1.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at ANNEXES A AND B 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 within 12 MONTHS after contract award 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 (2014-03-01), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

3. SECURITY REQUIREMENT

There is no security requirement applicable to this Contract.

4. TERM OF CONTRACT

4.1 Delivery Date

All the deliverables must be received on or before _____ (*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

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

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

5.3 Contractor's Representative

<u>General Enquiries</u>	<u>Delivery Follow-up</u>
Name: _____	Name: _____
Telephone No. _____	Telephone No. _____
Facsimile No. _____	Facsimile No. _____
E-mail address: _____	E-mail address: _____

6. PROACTIVE DISCLOSURE OF CONTRACTS WITH FORMER PUBLIC SERVANTS

N/A

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

7. PAYMENT

7.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$ (insert the amount at contract award). Customs duties are subject to exemption 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.

7.2 Limitation of Price

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

7.3 Multiple Payments

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

7.4 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department
C2000C (2007-11-30), Taxes - Foreign Based Contractors
H4500C (2010-01-11), Lien - Section 427 of the Bank Act

8. 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.

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

W6399
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON. K1A 0K2
Attention: _____, DLP _____

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

9. CERTIFICATIONS

9.1 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

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

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.

9.2 Federal Contractors Program for Employment Equity - Default by the Contractor

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

10. APPLICABLE LAWS

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

11. PRIORITY OF DOCUMENTS

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

- (a) the Articles of Agreement;
- (b) the general conditions 2030 (2014-03-01), Higher Complexity - Goods;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Federal Contractors Program for Employment Equity - Certification ;
- (f) 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)*).

12. DEFENCE CONTRACT

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

13. SACC MANUAL CLAUSES

D9002C (2007-11-30), Incomplete Assemblies
C2800C (2013-01-28), 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)
A1009C (2008-05-12), Work Site Access
B4061C (2008-05-12), NATO Codification - Data Requirements

14. INSURANCE

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

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

15. PREPARATION FOR DELIVERY

The Contractor must prepare ALL items 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 ALL items in quantities of 1 by Package.

16. SHIPPING INSTRUCTIONS - DELIVERY AT DESTINATION

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

FOB Destination (DND – As per Annex B (1.1)) including all delivery charges and customs duties and taxes.

17. CUSTOMS DUTIES - CONTRACTOR IMPORTER

1. As the goods to be supplied under the Contract are defence supplies, customs duties on importation to Canada may be remitted under the Tariff Item Number 9982.00.00 of the Schedule to the Customs Tariff.
2. Remission of customs duties payable may be granted under the Tariff Item Number 9982.00.00 when the total contract value of the defence supplies is C\$250,000 or more. This reflects the import value of the goods plus the duty that would be applicable in the absence of the Customs Tariff.
3. The Contractor will be responsible for prearranging remission on importation or for paying customs duties on importation and applying to Canada Border Services Agency for a refund.

**ANNEX A
STATEMENT OF WORK
PORTABLE INFANTRY TARGET SYSTEM**

1.0 INTRODUCTION

1.1 Objective – The Statement of Work (SOW) describes the mandatory requirements for a Portable Infantry Target System (PITS).

1.2 Background – The Department of National Defence has a requirement for a Commercial off the Shelf (COTS) PITS. The PITS will be used to maintain a high level of weapons and tactical proficiency through live-fire outdoors training.

1.3 Document Interpretation – For the purposes of this document:

- a) Mandatory requirements are identified by the word "must" or "shall". Deviations will not be permitted;
- b) Tasks to be performed by the Crown are identified by the word "will";
- c) The term "operator" refers to government personnel responsible for operating the PITS, including:
 - i. Range Safety Officers;
 - ii. Range Staff; and
 - iii. Training Staff.
- d) The term "shooter" refers to the personnel shooting at the PITS targets;
- e) The term "action" refers to pre-programmed multiple movements for the PITS targets; and

2.0 DELIVERABLES

2.1 Delivery - The Contractor must provide a PITS, with full functionality as described in Section 3.0, including the following components:

		Delivery Point 1	Delivery Point 2	TA
(1)	Pop-up Mechanical Targets (PMT) – (Section 3.2)	30	50	0
(2)	Additional Power Sources – (Section 3.2.9)	Sufficient quantity to power 3 PMTs	Sufficient quantity to power 3 PMTs	0
(3)	PMT Base Ballistic Protection – (Section 3.3)	30	0	0
(4)	Handheld Master Controller – (Section 3.4)	3	4	0
(5)	PMT Battery charger – (Section 3.5)	Sufficient quantity to simultaneously charge the Power Sources for 25 PMTs	Sufficient quantity to simultaneously charge the Power Sources for 25 PMTs	0
(6)	Paper Copy: Operator Manual – (Section 4.4)	4	4	1
(7)	Electronic Copy: Operator Manual, Replaceable Spare Parts List, Compatible Target List – (Section 4.0)	1	1	2
(8)	Training session – (Section 5.1)	1	1	0

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

3.0 REQUIREMENTS

3.1 General System Requirements

3.1.1 **Commercial-Off The Shelf (COTS)** – The PITS shall be Commercial off the Shelf (COTS) as defined in STANAG 3680, AAP-06 (2013) “Pertaining to a commercially marketed product which is readily available for procurement and normally used without modification”.

3.1.2 Ammunition Compatibility – The system must be compatible with the following NATO standard ammunition:

- a) 9mm ball;
- b) 5.56 ball;
- c) 7.62 ball;
- d) .338 cal; and
- e) .50 cal.

3.1.3 Operating Environment – The PITS must operate in the following conditions:

- a) Temperature: +35°C to -15°C;
- b) Precipitation: 0mm/hr (Dry conditions) to 10 mm/hr (Moderate Rain or Snow).
- c) Terrain:
 - i. Rocky;
 - ii. Mud;
 - iii. Dry Ground;
 - iv. Snow 20 mm deep; and
 - v. Water 10 mm deep.

3.1.4 Expandability – The system must allow for the simultaneous use of a minimum of quantity 50 PMTs.

3.1.5 Frequency Management – The system must use a radio frequency within the unlicensed frequency spectrum, as defined by Industry Canada Table of Frequency Allocation (http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/h_sf01678.html). The equipment must not require licensing by Industry Canada to permit use in Canada.

3.2 Pop-up Mechanical Targets (PMT) – The PITS must be provided with only one make and model of PMT:

3.2.1 Size – The PMT must:

- a) Have maximum height of 300mm when setup with a target in the “concealed” position; and
- b) Have maximum height of 1500 mm when setup with a target in the “exposed” position; and
- c) Have a base foot print no larger than 800mm by 550mm, not including the target.

3.2.2 Weight – The PMT must weight no more than 30 kg (67 lbs) when prepared for storage or transport. The weight of the battery must be included in the storage and transport weight. The removable ballistic protection will not be considered as part of this weight.

3.2.3 Target Compatibility – The PMT must be provided with one of the following target types:

a) A target holder:

- i. Capable of using and compatible with plastic Figure 11 (NSN 6920-20-004-8742) and Figure 12 (NSN 6920-20-004-8740) targets, as defined in Appendix 2 to Annex A.

OR

b) Two flat faced, self-sealing plastic or foam targets:

- i. One NATO standard Figure 11 target;
- ii. One NATO standard Figure 12 target;
- iii. Capable of sustaining a minimum of 1500 hits before requiring replacement; and
- iv. Which are removable and replaceable, by one person, with no more than common hand tools, in less than five (5) minutes.

OR

c) A 3-dimensional (3D) target:

- i. Made of a self-sealing foam or plastic;
- ii. Capable of sustaining a minimum of 1500 hits before requiring replacement;
- iii. With a minimum height of 500 mm, and a maximum of 1.5m;
- iv. With a minimum width of at least 300 mm, and a maximum of 1m; and
- v. Which are removable and replaceable, by one person, with no more than common hand tools, in less than five (5) minutes.

3.2.4 Movement – The PMT must be capable of:

- a) Raising the target to perpendicular to the PMT base (“exposing”);
- b) Lowering the target out of sight, parallel to the PMT base (“concealing”);
- c) Rotating the target 90° (“edging”);
- d) Rotating the target 180° (“backing”); and
- e) Making any one of the above movements in less than 1 second.

3.2.5 Hit Recorder – The PMT must have counter capable of recording a minimum of 200 hits and being reset to zero (0).

3.2.6 Setup and Tear-down –The PMT must:

- a) Require no more than fifteen (15) minutes and maximum one (1) person to be setup and activate without the use of special tools or equipment once placed in its location, when following the instructions provided in the Operator Manual;
- b) Have handholds or be designed so that it can be carried or moved by a single operator; and
- c) Require no more than fifteen (15) minutes and maximum two (2) people to prepare for transport or storage, when following the instructions provided in the Operator Manual.

3.2.7 Communication – The PMT must:

- a) Be capable of receiving and acting on communications from the Hand Held Master Controller (HMC).
- b) Utilize wireless communication only.

3.2.8 Storage – The PMT must be stackable for storage and transportation purposes. The target, target backing, or holder may be removable to enable stackability.

3.2.9 Power source – Each PMT must be provided with a battery or battery pack. Each battery or battery pack must:

- a) Be rechargeable;
- b) When fully charged, be capable of:
 - i. Sustaining sufficient power for the PMT to perform 1000 movements as described in section 3.2.4; and
 - ii. Powering the PMT for 72 hours.
- c) Be removable from and replaceable in the PMT without the use of special tools or equipment, in no longer than fifteen (15) minutes.

Note: It is not a requirement that the power source be removable from PMT for the purposes of recharging.

3.3 Ballistic Protection – The PITS must include removable ballistic protection for the base of the PMT. The ballistic protection must:

- a) Provide protection to the front of the PMT;
- b) Enable the PMT to be a surface lay and protect the PMT from both 9mm ball and 5.56 ball NATO standard rounds;
- c) Be designed to prevent ricochet rounds from being directed back at a standing shooter;
- d) Not prevent a shooter from seeing or hitting a target when in the exposed position;
- e) Weigh no more than 10 kg (22.5 lbs); and
- f) Be removable or replaceable in less than five (5) minutes by one person.
 - i. Should the provided solution include ballistic protection which attached to the base of the PMT, no more than common hand tools (wrench or common screwdriver), shall be required to remove the ballistic protection from the base of the PMT. No power tools shall be required to remove the ballistic protection.

3.4 Handheld Master Controller (HMC) – The PITS must include an HMC that can be simultaneously held and operated by a single operator

3.4.1 Size – The HMC, including the battery, must fit in a rectangular cuboid or rectangular prism space with:

- a) No dimension (length, width or height) larger than 400 mm; and
- b) A volume no larger than $4 \times 10^6 \text{ mm}^3$; and

3.4.1.1 The antenna may be foldable, collapsible, retractable or removable to enable the HMC to meet the size requirement at paragraph 3.4.1. Should the antenna be removable, it may not have a collapsed length larger than 400 mm, and a diameter larger than 20 mm

3.4.2 Weight – The HMC, including the battery, must weigh no more than 2000 g (4.5 lbs);

3.4.3 PMT Control – The HMC must

- a) Be capable of controlling at a minimum 50 individual PMT's, groups of PMT's, or any combination of the two, in the same scenario;
- b) Be capable of grouping PMT's into control groups containing between two (2) and twenty (20) PMT's
- c) Be capable of pre-programming PMT's or grouped PMT's such that targets will make a movement when prompted by the HMC or after a given criteria is met. Criteria including the following:
 - i. Number of hits to a target;
 - ii. Number of hits to a grouping; or
 - iii. A time limit being reached;
- d) Be capable of programming actions made up of at least 4 movements, as defined in paragraph 3.2.4, per PMT or PMT group. Should the proposed system use pre-programmed actions instead of individual movements, the example actions must be provided. The following actions are examples of actions, or multiple movements that will be used:
 1. Hit Bob (4 movements) – Raise, lower (after a number of hits or time limit met), Raise (after time limit met), and lower (after a number of hits or time limit met);
 2. Hit Stop (2 movements) – Raise, and lower (after a number of hits or time limit met);
 3. Hit Edge (4 movements) – Raise, Edge (after a number of hits or time limit met), Face/Back (after time limit met), and lower (after a number of hits or time limit met); and
 4. Hit Back (3 movements) – Raise, Face/Back (after a number of hits or time limit met), and lower (after a number of hits or time limit met)
- i. Each action must support a minimum time limit over the range of 5 seconds to 5 minutes.
- c) Be capable to overriding a pre-programmed PMT, PMT group, or all active PMT's and grouped PMT's in range of the HMC, to prevent pre-programmed movement, or force a movement not pre-programmed;

3.4.4 Communication - The HMC must:

- a) Be capable of communicating with any PMT or PMT group in line of sight over a minimum distance of 1 km; and
- b) Communicate wirelessly with any PMT or PMT group.

3.4.5 HMC Battery – The HMC power source must:

- a) Enable the HMC to operate for a minimum of 4 hours without requiring a battery change or recharge; and
- b) Be either:
 - i. A non-removable internal rechargeable battery or battery pack. A non-removable internal battery or battery pack is defined as a battery or battery pack that must remain plugged into the HMC to be recharged;
 - ii. A removable rechargeable battery, set of batteries or battery pack; or
 - iii. A standard commercial non-rechargeable battery or set of batteries.

3.4.5.1 Should the HMC power source be a non-removable internal rechargeable battery or battery pack, a battery charger meeting the requirements of section 3.5 and enabling the power source to be fully recharged in no more than 1 hour must be provided.

3.4.5.2 Should the HMC power source be a removable rechargeable battery or set of batteries, a spare battery or set of batteries and a charger meeting the requirements in section 3.5 must be provided.

3.4.5.3 Should the HMC power source be a standard commercial non-rechargeable battery or set of batteries, AA, AAA, C, D, and standard 9V batteries are the only acceptable non-rechargeable batteries.

3.5 Battery Charger – The battery charger must:

- a) Be capable of fully recharging any battery, it is designed to work with, plugged into it in no more than 8 hours;
- b) Have at a minimum one (1) charging port to connect to the battery it is intended to be used with; and
- c) Plug into and use a standard NEMA 5-15 amp outlet.

4.0 DOCUMENTATION

4.1 Documentation Delivery: The Contractor must provide:

4.1.1 One (1) electronic copy of all documentation, on CD, DVD or USB key, as described in section 4.0 with initial delivery of the PITS to each delivery point.

4.1.2 Two (2) electronic copies of all documentation, on CD, DVD or USB key, as described in section 4.0, at least 30 days prior to the initial equipment delivery, to the TA

4.2 Language – All documentation must be provided in English. The Crown reserves the right to translate and reproduce all documentation provided as part of this contract.

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

4.3 Electronic Format – Electronic copies must be in a “.doc” format compatible with MS Office 2003, or a Portable Document Format “.pdf” compatible with Adobe Acrobat reader version 9.0.

4.4 Operator’s Manual – The operator’s manual must:

- a) Completely describe how to setup and tear down of the PITS;
- b) Include instructions on the safe operation and use of each component of the PITS;
- c) Describe any preparation required for storage or transport;
- d) Describe basic and regular maintenance for the PITS;
- e) Include the appropriate safety warnings;
- f) Include a complete list of removable parts, listing part name and number; and
- g) Include contact information for technical and warranty support

4.5 Replaceable Spare Parts List – The contractor must provide a replaceable spare parts list with the following information:

- a) OEM Part Number;
- b) Contractor Part Number (if different from OEM Number);Part Number;
- c) Part Name;
- d) NSN (if available);
- e) Quantity Per package
- f) Size of package (l, w, h or volume);
- g) Shelf life (if applicable);
- h) Item Weight; and
- i) Recommended quantity to be held locally to support qty 30 and qty 50 PMT’s, for a period of 2 years;

4.5.1 The Replaceable Spare Parts List (RSPL) must include a calculation of the number of additional quantities of the target holders, or targets offered, required to last a total of at least 100,000 rounds.

4.6 Compatible Target List – The contractor must provide a list of foam, 3-dimensional targets, and alternative target holders known to be compatible with the PMT. The list must include the following information:

- a) OEM;
- b) Part Number;
- c) NSN (if available);
- c) Name; and
- d) Type (Foam / Plastic / 3-dimensional).

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

5.0 INTEGRATED LOGISTICS SUPPORT

5.1 Training – The training must:

- a) Take no more than 3 consecutive business days;
- b) Accommodate up to 8 operators;
- c) Cover the following topics:
 - i. PITS usage and operation
 - ii. PITS setup, tear down and storage;
 - iii. Overview of manual; and
 - iv. PITS Maintenance.
- d) Provide assistance in the creation of 1 range scenario or setup with both grouped Pop-up Targets and individual targets;
- e) Provide a minimum of four (4) hours of supervised usage of the PITS on a range;
- f) Provide an opportunity to answer all operator questions on the training topics; and
- g) Take place within 300 km of the delivery location.

5.2 Technical support – The contractor must provide technical support for a period of at least 1 year. Technical support must be available by phone and e-mail 8 hours a day Monday to Friday, with core hours of 9 am to 3pm EST)

APPENDIX 1 TO ANNEX A

OPTIONAL ITEMS

DND is under no obligation to purchase any additional PITS equipment; However, should DND decide to exercise further options, the following applies:

- a) Options may be exercised for the period of up to 2 years after contract award as indicated in Table 1. Options may be exercised for any items up to the quantities specified below.
- b) The Contractor must deliver the optional equipment within sixty (60) days of the options being exercised by DND.

		Delivery Point 1	Delivery Point 2	TA
(9)	Pop-up Mechanical Targets (PMT) – (section 3.2)	30	50	0
(10)	Additional Power Sources (Section 3.2.9)	Note 2	Note 3	0
(11)	PMT Base Ballistic Protection – (Section 3.3)	30	0	0
(12)	Handheld Master Controller – (Section 3.4)	3	4	0
(13)	PMT Battery charger – (section 3.5)	Note 1	Note 1	0
(14)	Paper Copy: Operator Manual – (Section 4.4)	4	4	1
(15)	Electronic Copy: Operator Manual, Recommended Spare Parts List, Compatible Target List – (Section 4.0)	1	1	2
(16)	Training session – (section 5.1)	1	1	0
(17)	Recommended Spare Parts List	Note 4	Note 5	0

Note 1: Sufficient quantity to simultaneously charge the Power Sources for 25 PMTs.

Note 2: Sufficient quantity to power 3 PMTs.

Note 3: Sufficient quantity to power 5 PMTs.

Note 4: Sufficient quantity to support a PITS containing 60 PMTs, and 3 HMCs for 2 years as specified in the RSPL.

Note 5: Sufficient quantity to support Qty 100 for 2 years as specified in the RSPL.

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

APPENDIX 2 TO ANNEX A: DESCRIPTION OF FIGURE 11 AND FIGURE 12 TARGETS

1.0 INTRODUCTION

1.1 Objective – This appendix provides a basic description of the Figure 11 and Figure 12 targets in use with the Canadian Forces.

1.2 Background – The Canadian Forces uses standard targets for training. These targets are commonly known as Figure 11 and Figure 12 targets. They are available as both paper and plastic targets.

1.3 Document Interpretation – For the purposes of this document:

- a) The term “operator” refers to government personnel responsible for operating the PITS, including:
 - i. Range Safety Officers;
 - ii. Range Staff; and
 - iii. Training Staff.
- b) The term “shooter” refers to the personnel shooting at the PITS targets;
- c) The term “action” refers to pre-programmed multiple movements for the PITS targets; and

2.0 PAPER TARGETS

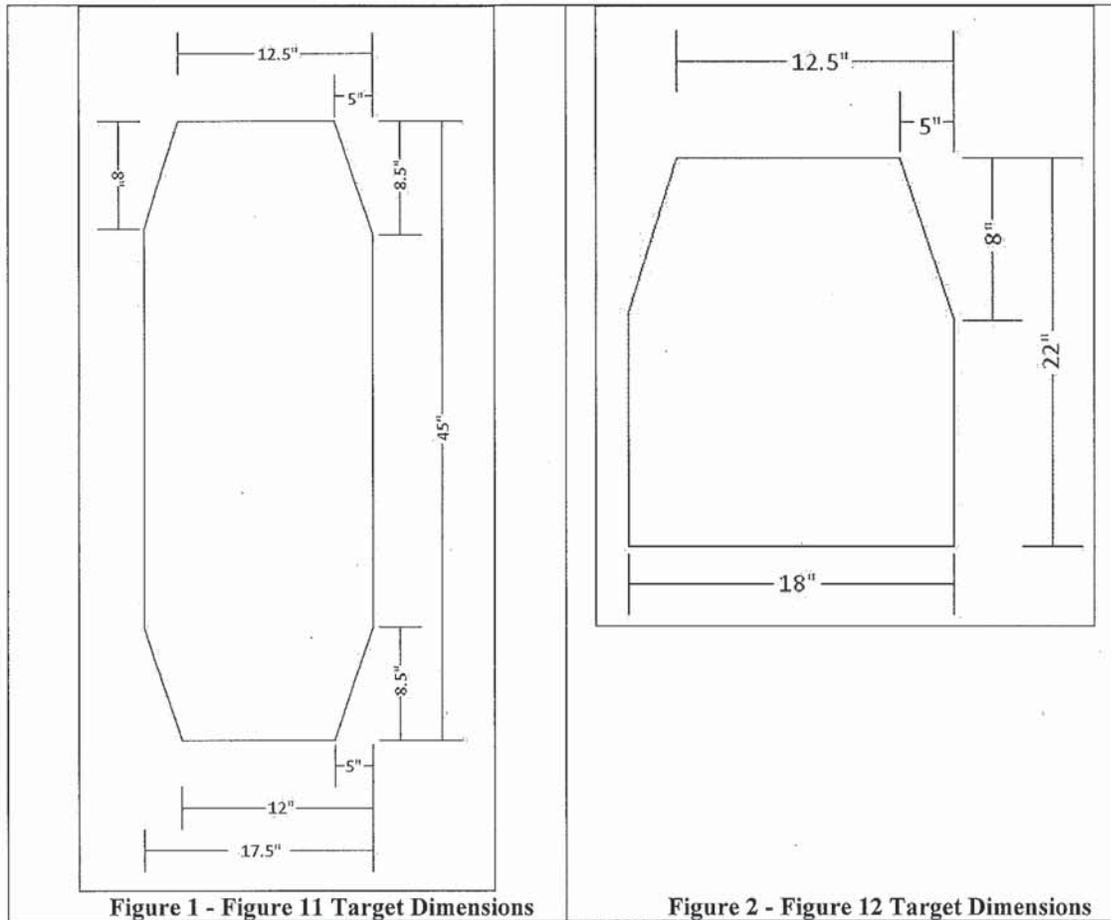
2.1 Cataloguing Information - The paper targets consist of:

- a) Figure 11: NSN 6920-21-553-3004; and
- b) Figure 12: NSN 6920-21-877-9347

2.2 Paper Thickness - Both the Figure 11 and Figure 12 targets are printed on paper having a thickness of 0.18mm (+10%)

2.3 Dimensions

- a) Figure 11: as shown in Figure 1, tolerance is ± 0.75 inches.
- b) Figure 12: as shown in Figure 2, tolerance is ± 0.75 inches.



3.0 **PLASTIC TARGETS**

3.1 Cataloguing Information - The plastic targets consist of:

- a) Figure 11: NSN 6920-20-004-8742; and
- b) Figure 12: NSN 6920-20-004-8740.

3.2 Mounting Area

3.2.1 The mounting of the target is identical for both the Figure 11 and Figure 12 targets.

3.2.2 The mounting area has:

-
- a) Height: The area extends 6.5 in (16.5 cm) below the artwork to allow for a 3 in (7.6 cm) wide target holder to securely clamp the bottom of the target onto the lifter;
 - b) Width: The width of the artwork; and
 - c) Mounting Slots: The target has three (3) slots along the bottom. They are 0.750 in (1.9 cm) wide and 2 in (5 cm) high to allow the mounting clamps to pass through the target and tighten the clamping bar to the lifter arm. From the center slot on either side spaced 7.2 in (18.3 cm) apart on center are the other two (2) mounting slots.

3.3 Dimensions of Artwork

3.3.1 Figure 11: The following dimensions pertain to the Figure 11 target but do not include the mounting area of the target which is 6.5 in (16.5 cm) below the artwork:

- a) Height: 33 in (83.8 cm) straight at which point the target is angled in 30 degrees for an additional 8.5 in (21.6 cm). Overall height is 41.5 in (105.4 cm);
- b) Width: width at the bottom of the target is 18 in (45.7 cm) and at the top 7.7 in (19.6 cm); and
- c) A tolerance of 0.75 in (1.9 cm) is acceptable.

3.3.2 Figure 12: The following dimension pertains to the Figure 12 target but does not include the mounting area of the target which is 6.5 in / 16.5 cm below the artwork:

- a) Height: 9.7 in (24.6 cm) straight at which point the target is angled in 32 degrees for an additional 7.5 in (19 cm). Overall height is 17.5 in (44.5 cm);
- b) Width: width at the bottom of the target is 17.5 in (44.5 cm) and at the top 7.5 in (19 cm); and
- c) A tolerance of 0.75 in (1.9 cm) is acceptable.

3.4 Artwork

3.4.1 The art work for both the Figure 11 and Figure 12 target are identical to the eye as the existing commonly used NATO Figure 11 and 12 targets except they are etched into a black and white substratum. Some expansion in size to the artwork is performed to adapt the artwork to the size of the substratum material.

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

**ANNEX B
BASIS OF PAYMENT**

1. Firm Requirement

Item	Description	Qty to Delivery Point 1	Qty to Delivery Point 2	Qty to Project Authority	Unit Price	Extended Price
001	Pop-Up Mechanical Targets (PMT) in accordance with Section 3.2 of Annex A.	30 EA	50 EA	0	\$	\$
002	Additional Power Sources in accordance with Section 3.2.9 of Annex A. Each Lot shall contain sufficient quantity to power 3 PMTs.	1 LOT	1 LOT	0	\$	\$
003	PMT Base Ballistic Protection in accordance with Section 3.3 of Annex A.	30 EA	0	0	\$	\$
004	Handheld Master Controller in accordance with Section 3.4 of Annex A.	3 EA	4 EA	0	\$	\$
005	PMT Battery Charger in accordance with Section 3.5 of Annex A. Each Lot shall contain sufficient quantity to simultaneously charge the Power Sources for 25 PMTs.	1 LOT	1 LOT	0	\$	\$
006	Paper Copy: Operator Manual in accordance with Section 4.4 of Annex A.	4 EA	4 EA	1 EA	\$	\$
007	Electronic Copy: Operator Manual, Replaceable Spare Parts List, Compatible Target List in accordance with Section 4.0 of Annex A.	1 EA	1 EA	2 EA	\$	\$

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

008	Training Session in accordance with Section 5.1 of Annex A.	1 EA	1 EA	0	\$	\$
009	Technical Support in accordance with Section 5.2 of Annex A.	1 EA	1 EA	0	\$	\$
Total A (CAN \$)						\$

1.1. Delivery Points (1 and 2) will be within 300 kilometers from Ottawa, Ontario Canada. Exact delivery address will be provided at Contract Award.

2. OPTION. To be exercised within 12 months of Contract Award. Delivery Points will be within 300 kilometers from Ottawa, Ontario Canada. Exact delivery address will be provided when the option is exercised.

Item	Description	Up to Qty	Unit Price	Extended Price
010	Pop-Up Mechanical Targets (PMT) in accordance with Appendix 1 to Annex A.	80 EA	\$	\$
011	Additional Power Sources in accordance with Appendix 1 to Annex A.	8 LOT	\$	\$
012	PMT Ballistic Protection in accordance with Appendix 1 to Annex A.	30 EA	\$	\$
013	Handheld Master Controller in accordance with Appendix 1 to Annex A.	7 EA	\$	\$
012	PMT Battery Charger in accordance with Appendix 1 to Annex A.	25 EA	\$	\$
013	Paper Copy: Operator Manual in accordance with Appendix 1 to Annex A.	9 EA	\$	\$
014	Electronic Copy: Operator Manual, Recommended Spare Parts List, Compatible Target List in accordance with Appendix 1 to Annex A.	4 EA	\$	\$
015	Training Session in accordance with Appendix 1 to Annex A.	2 EA	\$	\$
Total B (CAN \$)				\$

Total Evaluated Price = Total A + Total B = \$ _____

Solicitation No. - N° de l'invitation
W6399-13EC77/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur
015bm

Client Ref. No. - N° de réf. du client
W6399-13EC77

File No. - N° du dossier
015bm W6399-13EC77

CCC No./N° CCC - FMS No./N° VME

ANNEX C
FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

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

For further information on the Federal Contractors Program for Employment Equity visit [HRSDC-Labour's website](#).

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

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
- A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with HRSDC-Labour.

OR

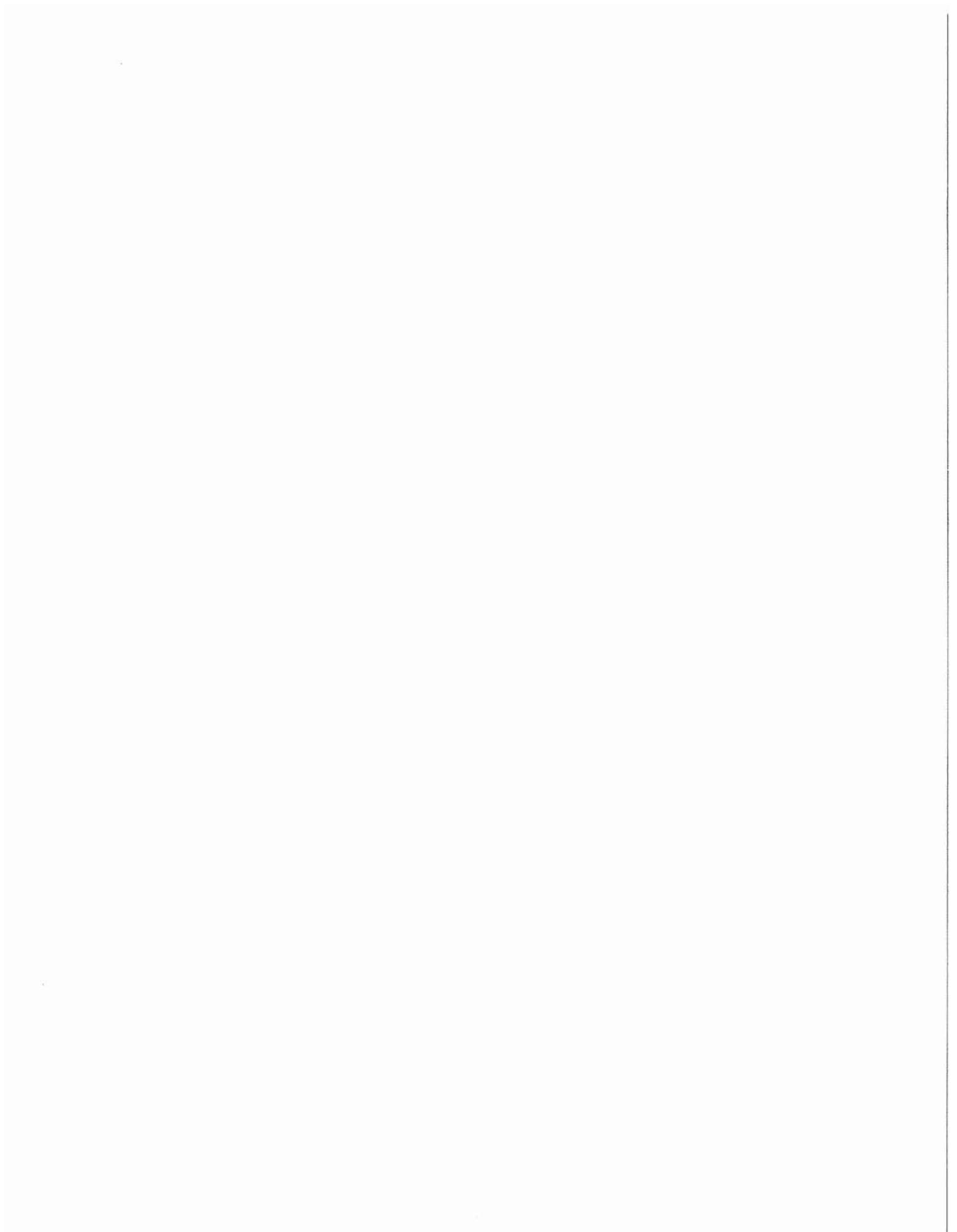
A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to HRSDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to HRSDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

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



**REQUIRED BID INFORMATION
PORTABLE INFANTRY TARGET SYSTEM**

1.0 BID INFORMATION TABLE

Item	Requirement	Proof of Compliance	Bid Reference [Drawing or Page Number] and Bidder Response
3.1	<u>General System Requirements</u>	<p>The Bidder must attach a product brochure(s) with: an image, description, and specifications for each component of the manufacturer's current model being offered.</p> <p>The Bidder must state the Make and Model of each component being offered.</p>	
3.1.1	<p><u>Commercial-Off The Shelf (COTS)</u> – The PITS shall be Commercial off the Shelf (COTS) as defined in STANAG 3680, AAP-06 (2013) "Pertaining to a commercially marketed product which is readily available for procurement and normally used without modification."</p>	<p>The Bidder must state at least one other user organization of the offered equipment</p>	
3.1.2	<p><u>Ammunition Compatibility</u> – The system must be compatible with the following NATO standard ammunition:</p> <ul style="list-style-type: none"> a) 9mm ball; b) 5.56 ball; c) 7.62 ball; d) .338 cal; and e) .50 cal. 	<p>The Bidder must confirm compatibility with the required ammunition types. The Bidder must list other commonly used ammunition the system is compatible with.</p>	

3.1.3	<p><u>Operating Environment</u> – The PITS must operate in the following conditions:</p> <ul style="list-style-type: none"> a) Temperature: +35°C to -15°C; b) Precipitation: 0mm/hr (Dry conditions) to 10 mm/hr (Moderate Rain or Snow). c) Terrain: <ul style="list-style-type: none"> i. Rocky; ii. Mud; iii. Dry Ground; iv. Snow 20 mm deep; and v. Water 10 mm deep. 	<p>The Bidder must state the temperature range the system is compatible with.</p> <p>The Bidder must state the maximum precipitation rate the system has been tested in or used in.</p> <p>The Bidder must state the maximum snow and water depth the system has been tested in or used in.</p>	
3.1.4	<p><u>Expandability</u> – The system must allow for the simultaneous use of a minimum of quantity 50 PMTs.</p>	<p>The Bidder must state the maximum number of targets that can be used with the system.</p>	
3.1.5	<p><u>Frequency Management</u> – The system must use a radio frequency within the unlicensed frequency spectrum, as defined by Industry Canada Table of Frequency Allocation (http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/h_sft01678.html). The equipment must not require licensing by Industry Canada to permit use in Canada.</p>	<p>The Bidder must state the radio frequencies (in Hertz) or frequency spectrum (in Hertz) the system is compatible with.</p> <p>The Bidder must confirm in writing that the system does not require licensing with industry Canada to enable full functionality in Canada.</p>	

<p>3.2</p> <p><u>Pop-up Mechanical Targets (PMT)</u> – The PITTS must be provided with only one make and model of PMT.</p> <p>3.2.1 <u>Size</u> – The PMT must:</p> <ul style="list-style-type: none"> a) Have maximum height of 300mm when setup with a target in the “concealed” position; and b) Have maximum height of 1500 mm when setup with a target in the “exposed” position; and c) Have a base foot print no larger than 800mm by 550mm, not including the target. 	<p>The Bidder must state the size of the PMT including:</p> <ul style="list-style-type: none"> -Size of the base (L x W) -Height when concealed -Height when exposed 	
<p>3.2.2</p> <p><u>Weight</u> – The PMT must weight no more than 30 kg (67 lbs) each when prepared for storage or transport. The weight of the battery must be included in the storage and transport weight. The removable ballistic protection will not be considered as part of this weight.</p>	<p>The Bidder must state the weight of the PMT without including the weight of the removable ballistic protection</p>	

<p>3.2.3 Target Compatibility – The PMT must be provided with one of the following target types:</p> <p>a) A target holder:</p> <ul style="list-style-type: none"> i. Capable of using and compatible with plastic Figure 11 (NSN 6920-20-004-8742) and Figure 12 (NSN 6920-20-004-8740) targets, as defined in Appendix 1 to Annex A. <p>OR</p> <p>b) Two flat faced, self-sealing plastic or foam targets</p> <ul style="list-style-type: none"> i. One NATO standard Figure 11 target; ii. One NATO standard Figure 12 target; iii. Capable of sustaining a minimum of 1500 hits before requiring replacement; and iv. Which are removable and replaceable, by one person, with no more than common hand tools in less than five (5) minutes. <p>OR</p> <p>c) A 3-dimensional (3D) target:</p> <ul style="list-style-type: none"> i. Made of a self-sealing foam or plastic; ii. Capable of sustaining a minimum of 1500 hits before requiring replacement; iii. With a minimum height of 500 mm and a maximum of 1.5 m; iv. With a minimum width of 300 mm, and a maximum of 1 m; and v. Which are removable and replaceable, by one person, with no more than common hand tools in less than five (5) minutes. 	<p>The Bidder must state the type of targets the PMT is compatible with.</p> <p>The Bidder must state the type of targets or target holders being provided.</p>	
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3.2.4	<p><u>Movement</u> – The PMT must be capable of:</p> <ul style="list-style-type: none"> a) Raising the target to perpendicular to the PMT base (“exposing”); b) Lowering the target out of sight, parallel to the PMT base (“concealing”); c) Rotating the target 90° (“edging”); d) Rotating the target 180° (“backing”); and e) Making any one of the above movements in less than 1 second. 	<p>The Bidder must state the base movements that the PMT is capable of making.</p> <p>The Bidder must state the movement time for each movement</p>	
3.2.5	<p><u>Hit Recorder</u> – The PMT must have a counter capable of recording a minimum of 200 hits and being reset to zero (0).</p>	<p>The Bidder must state the maximum number of hits a PMT is capable of counting.</p>	
3.2.6	<p><u>Setup and Tear-down</u> – The PMT must:</p> <ul style="list-style-type: none"> a) Require no more than fifteen (15) minutes and maximum 1 person to be setup and activate without the use of special tools or equipment once placed in its location, when following the instructions provided in the operator manual; b) Have handholds or be designed so that it can be carried or moved by a single operator; and c) Require no more than fifteen (15) minutes and maximum two (2) people to prepare for transport or storage, when following the instructions provided in the operator manual. 	<p>The Bidder must state the amount of time and number of people required to setup a PMT.</p> <p>The Bidder must state the amount of time and number of people required to prepare a PMT for transport or storage.</p> <p>The Bidder must include in the bid an image or diagram showing handholds or design features enabling movement or carrying by a single operator</p>	

<p>3.2.8 <u>Storage</u> – The PMT must be stackable for storage and transportation purposes. The target, target backing, or holder may be removable to enable stackability.</p>	<p>The Bidder must state the maximum stacking height of the PMT.</p>	
<p>3.2.9 <u>Power source</u> – The PMT must be provided with a battery or battery pack. Each battery or battery pack must:</p> <ul style="list-style-type: none"> a) Be rechargeable; b) When fully charged, be capable of: <ul style="list-style-type: none"> i. Sustaining sufficient power for the PMT to perform 1000 movements as described in section 3.2.4; ii. Powering the PMT for 72 hours. d) Be easily removable from and replaceable in the PMT, without the use of special tools or equipment. <p>Note: It is not a requirement that the power source is removable from PMT for the purposes of recharging</p>	<p>The Bidder must provide the following information on the PMT Battery:</p> <ul style="list-style-type: none"> -State if rechargeable. -State minimum number of PMT movements capable on one charge; - State Battery type or model - State PMT Life on one charge, in hours 	

<p>3.3</p>	<p>Ballistic Protection The PITS must include removable ballistic protection for the base of the PMT. The ballistic protection must:</p> <ul style="list-style-type: none"> a) Provide protection to the front of the PMT; b) Enable the PMT to be a surface lay and protect the PMT from both 9mm ball and 5.56 ball NATO standard rounds; c) Be designed to prevent ricochet rounds from being directed back at a standing shooter; d) Not prevent a shooter from seeing or hitting a target when in the exposed position; e) Weigh no more than 10 kg (22.5 lbs); and f) Be removable or replaceable in less than five (5) minutes by one person. <ul style="list-style-type: none"> i. Should the provided solution include ballistic protection which attached to the base of the PMT, no more than common hand tools (wrench or common screwdriver), shall be required to remove the ballistic protection from the base of the PMT. No power tools shall be required to remove the ballistic protection. 	<p>The Bidder must state the ballistic protection provided to the PMT.</p> <p>The Bidder must show design features included to prevent ricochets’.</p> <p>The Bidder must state the weight of any removable ballistic protection.</p>
<p>3.4</p>	<p>Handheld Master Controller (HMC) – The PITS must include an HMC that can be simultaneously held and operated by a single operator</p>	<p>The Bidder must include an image showing the HMC being held and used by a single operator.</p>
<p>3.4.1</p>	<p>Size – The HMC, including the battery, must fit in a rectangular cuboid or rectangular prism space with:</p> <ul style="list-style-type: none"> a) No dimension (length, width or height) larger than 400 mm; and b) A volume no larger than 4×10^6 mm³; and <p>3.4.1.1 The antenna may be foldable, collapsible, retractable or removable to enable the HMC to meet the size requirement at paragraph 3.4.1. Should the antenna be removable, it must not have a collapsed length larger than 400 mm, and a diameter larger than 20 mm</p>	<p>The Bidder must state the HMC dimensions.</p> <p>The Bidder must note if the HMC dimensions include the antenna. If not, the Bidder must state the Antenna dimensions (expanded and collapsed) and if the antenna is foldable, collapsible, retractable, or removable.</p>

ANNEX D
W6399-13-EC77

3.4.2	Weight – The HMC, including the battery, must weigh no more than 2000 g (4.5 lbs);	The Bidder must state the HMC weight including the weight of the battery.	
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<p>3.4.3</p>	<p>PMT Control – The HMC must</p> <ol style="list-style-type: none"> a) Be capable of controlling at a minimum 50 individual PMT's, groups of PMT's, or any combination of the two, in the same scenario; b) Be capable of grouping PMT's into control groups containing between two (2) and twenty (20) PMT's c) Be capable of pre-programming PMT's or grouped PMT's such that targets will make a movement when prompted by the HMC or after a given criteria is met. Criteria including the following: <ol style="list-style-type: none"> i. Number of hits to a target; ii. Number of hits to a grouping; or iii. A time limit being reached; d) Be capable of programming actions made up of at least 4 movements, as defined in paragraph 3.2.3, per PMT or PMT group. Should the proposed system use pre-programmed actions instead of individual movements, the example actions must be provided. The following actions are examples of action or multiple movements that will be used: <ol style="list-style-type: none"> 1. Hit Bob (4 movements) – Raise, lower (after a number of hits or time limit met), Raise (after time limit met), and lower (after a number of hits or time limit met); 2. Hit Stop (2 movements) – Raise, and lower (after a number of hits or time limit met); 3. Hit Edge (4 movements) – Raise, Edge (after a number of hits or time limit met), Face/Back (after time limit met), and lower (after a number of hits or time limit met); and 4. Hit Back (3 movements) – Raise, Face/Back (after a number of hits or time limit met), and lower (after a number of hits or time limit met) e) Each action must support a minimum time limit over the range of 5 seconds to 5 minutes. <p>Be capable of overriding a pre-programmed PMT, PMT group, or all active PMT's and grouped PMT's in range of the HMC, to prevent pre-programmed movement, or force a movement not pre-programmed;</p>	<p>The Bidder must state the maximum number of individual PMT, PMT groups or combination of the two that the HMC can control at one time.</p> <p>The Bidder must state the maximum size of PMT control groups.</p> <p>The Bidder must state the maximum number of movements or actions that can be programmed per PMT or PMT Group.</p> <p>The Bidder must state if the HMC pre-programs individual movements or actions into a PMT or PMT group.</p> <p>The Bidder must confirm that the HMC is capable of overriding a pre-programmed action or forcing a movement not pre-programmed.</p>	
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ANNEX D
W6399-13-ECT7

3.4.4	<u>Communication</u> - The HMC must: a) Be capable of communicating with any PMT or PMT group in line of sight over a minimum distance of 1 km; and b) Communicate wirelessly with any PMT or PMT group.	The Bidder must state if any wires are required for communication between the HMC a PMT or PMT control group. The Bidder must state the maximum communication distance between the HMC and a PMT.	
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<p>3.4.5</p>	<p><u>HMC Battery</u> – The HMC power source must:</p> <p>a) Enable the HMC to operate for a minimum of 4 hours without requiring a battery change or recharge; and</p> <p>b) Be either:</p> <ul style="list-style-type: none"> i. A non-removable internal rechargeable battery or battery pack. A non-removable internal battery or battery pack is defined as a battery or battery pack that must remain plugged into the HMC to be recharged; ii. A removable rechargeable battery, or set of batteries; or iii. A standard commercial non-rechargeable battery or set of batteries. <p>3.4.5.1 Should the HMC power source be a non-removable internal rechargeable battery or battery pack, a battery charger meeting the requirements of paragraph 3.4 and enabling the power source to be fully recharged in no more than 1 hour must be provided;</p> <p>3.4.5.2 Should the HMC power source be a removable rechargeable battery or set of batteries, a spare battery or set of batteries and a charger meeting the requirements in section 3.4 must be provided.</p> <p>3.4.5.3 Should the HMC power source be a standard commercial non-rechargeable battery or set of batteries, AA, AAA, C, D, and standard 9 V batteries are the only acceptable non-rechargeable batteries.</p>	<p>The Bidder must state the minimum battery life of the HMC, with new or fully charged batteries</p> <p>The Bidder must state the type of Batteries the HMC uses.</p> <p>If a non-removable rechargeable, the Bidder must state the recharge time, and provide details on the battery charger including number of batteries charged at one time and number of chargers provided per HMC</p> <p>If a removable rechargeable battery set of batteries, the Bidder must state the number of batteries the HMC uses at one time, the recharge time, and provide details on the battery charger including number of batteries charged at one time and number of chargers provided per HMC</p> <p>If a standard commercial battery, the Bidder must state the battery type and quantity required and number of batteries provided with each HMC</p>
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ANNEX D
W6399-13-EC77

<p>3.5</p>	<p><u>Battery Charger</u> – The battery charger must:</p> <ul style="list-style-type: none"> a) Be capable of fully recharging any battery, it is designed to work with, plugged into it in no more than 8 hours; b) Have at a minimum one (1) charging port to connect to the battery it is intended to be used with; and c) Plug into and use a standard NEMA 5-15 amp outlet. 	<p>For each battery charger offered the Bidder must state:</p> <p>The maximum amount of time required to recharge a single battery or battery pack plugged into the charger.</p> <p>The number of batteries or battery packs that can be plugged into a single charger.</p> <p>If the battery must be removed from the PMT to be recharged or must remain in the PMT to be recharged</p>	
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