

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 CH146 MRTT Back End Frame	
Solicitation No. - N° de l'invitation W8475-135228/A	Date 2013-08-01
Client Reference No. - N° de référence du client W8475-135228	
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-091-23930	
File No. - N° de dossier 091qf.W8475-135228	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-09-19	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Podlesny, Sebastian	Buyer Id - Id de l'acheteur 091qf
Telephone No. - N° de téléphone (819) 956-0077 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

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

Issuing Office - Bureau de distribution

Electronics, Simulators and Defence Systems Div. /Division
des systèmes électroniques et des systèmes de simulation et
de défense
11 Laurier St. / 11, rue Laurier
8C2, Place du Portage
Gatineau
Québec
K1A 0S5

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PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation is divided into six 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 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 requires engineering and fabrication services to update drawings, fabricate, and deliver a total of seven (7) Mission Rehearsal Tactics Rehearsal Back End (MRTT BE) frames for training for the CH146 Griffon fleet.

The completed frames will be delivered throughout the Contract and final delivery will take place no later than eight (8) months after Contract award.

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

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.

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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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.

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.

5. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the

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Contracting Authority at least seven (7) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

6. Mandatory Site Visit

It is mandatory that the Bidder or a representative of the Bidder visit the work site. Bidders will have the opportunity to take measurements and pictures of the Proof of Concept MRTT BE frame. Arrangements have been made for the site visit to be held on September 4, 2013 at the VSIM Lab at Carleton University. Bidders must communicate with the Contracting Authority no later than August 22, 2013 to confirm attendance and provide the names of the person(s) who will attend. Bidders will be required to sign an attendance form. Bidders should confirm in their bids that they have attended the site visit. Bidders who do not attend or send a representative will not be given an alternative appointment and their bids will be rejected as non-compliant. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

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 (one (1) hard copy and one (1) soft copy on CD/DVD/USB)

Section II: Financial Bid (one (1) hard copy)

Section III: Certifications (one (1) hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

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

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

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

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

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

Section I: 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: 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.

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- 1.2** Bidders must submit a proposed Schedule of Milestones, at Schedule "B". Bidders shall propose a draft Schedule of Milestones using the table format indicated at Schedule "B". The proposed Milestones must include the proposed delivery dates for all deliverables. The Schedule of Milestones is to be negotiated between Canada and the Bidders.

1.3 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 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

M1. By the Request for Proposal closing date the Bidder must have obtained certification under ISO 9001:2008 - Quality Management Systems. The Bidder must provide a copy of its current certification with its bid.

2. Basis of Selection

- 2.1** 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.

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.

PART 6 - 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 perform the Work in accordance with the Statement of Work at Annex "A".

1.1 Work Arisings

Additional work that is not described in the Statement of Work but that is required to support the MRTT BE Frame and that would fall within the overall scope of the Work (Work Arisings), may be incorporated into the Contract in accordance with Schedule "B", Basis of Payment.

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 (2013-06-27), 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 Dates

The first MRTT BE frame must be ready for in-plant approval within three (3) months from the effective date of the Contract.

Two (2) production MRTT BE frames must be delivered to CFB Gagetown within one (1) month after the successful in-plant approval of the first MRTT BE frame.

Two (2) production MRTT BE frames must be delivered to CFB Valcartier within three (3) months after the successful in-plant approval of the first MRTT BE frame.

Two (2) production MRTT BE frames must be delivered to CFB Edmonton within five (5) months after the successful in-plant approval of the first MRTT BE frame.

The updated proof of concept MRTT BE frame must be delivered to the VSIM Lab at Carleton University within five (5) months after the successful in-plant approval of the first MRTT BE frame.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Sebastian Podlesny
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Electronics, Munitions, and Tactical Systems Procurement Directorate
Place du Portage, Phase III, 8C2-17
11 Laurier Street
Gatineau, Quebec
K1A 0S5

Telephone: 819-956-0077
Facsimile: 819-956-5650
E-mail address: Sebastian.Podlesny@pwgsc-tpsgc.gc.ca

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

5.2 Technical Authority

The Technical Authority for the Contract will be named upon Contract award:

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

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

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

5.3 Procurement Authority

The Procurement Authority for the Contract will be named upon Contract Award.

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

Telephone: ____-____-____

Facsimile: ____-____-____

E-mail address: _____

The Procurement Authority (PA) is the representative of the department of agency for whom the Work is being carried out under the Contract and is responsible for the financial management and logistic support for the Contract. The PA monitors all expenditures to ensure proper and consistent cash flow. Any proposed changes to the Scope of the Work may be discussed with the PA, but any resulting change can only be confirmed by a Contract amendment issued by the Contract Authority.

5.4 Contractor's Representative

Name: _____

Telephone: ____-____-____

Facsimile: ____-____-____

E-mail address: _____

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 prices, as specified in in Annex B for a cost of \$____TBD____. Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.3 Milestone Payments

1. Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract, up to 85 percent of the amount claimed and approved by Canada if:

- A. an accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- B. the total amount for all milestone payments paid by Canada does not exceed eighty five (85) percent of the total amount to be paid under the Contract;
- C. all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- D. all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.

2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all Work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.

6.4 Multiple Payments

Canada will pay the Contractor upon completion and delivery of Work Arisings or Travel and Living Expenses in accordance with the payment provisions of the Contract if:

- A. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- B. all such documents have been verified by Canada;
- C. the Work delivered has been accepted by Canada.

6.5 Travel and Living Expenses

SACC Manual clause C4001C (2010-01-11) Travel and Living Expenses

6.6 Lien - Section 427 of the Bank Act

SACC Manual clause H4500C (2010-01-11) Lien - Section 427 of the Bank Act

6.7 Taxes - Foreign-based Contractor

SACC Manual clause C2000C (2007-11-30) Taxes - Foreign-based Contractor

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 Procurement Authority identified at Section 6 "Authorities" for certification and payment.

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.

10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2030 (2013-06-27), General Conditions - Higher Complexity - Goods;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____.

11. Defence Contract

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

12. Delivery

12.1 Shipping Instructions - Delivery at Destination

Goods must be consigned to the following destinations and delivered Delivered Duty Paid (DDP), Incoterms 2010 for shipments from a commercial contractor:

Updated Proof of Concept Frame:

Carleton University
ACE Laboratory
Virtualization and Simulation (VSIM) Building
1st Floor 1125 Colonel By Drive
Ottawa, ON
K1S 5B6

Two (2) Frames to CFB Gagetown:

CFB Gagetown
Building L24
Oromocto NB
E2V 4J5

Two (2) Frames to CFB Valcartier:

CFB Valcartier
430e Escadron tactique d'hélicoptères
Section d'approvisionnement, bâtisse 621
Rue St-Laurent
Courcellette, QC
G0A 4Z0

Two (2) Frames to CFB Edmonton:

CFB Edmonton
408 Squadron #2 Hangar
Edmonton, AB
T5J4J5

12.2 Wood Packaging

All wood packaging materials used in international shipping must conform to the Guidelines for Regulating Wood Packaging Material in International Trade - ISPM 15 (International Standards for Phytosanitary Measures)

Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:

D-98-08 - Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States

D-01-05 - The Canadian Wood Packaging Certification Program (CWPCP)

12.3 Delivery Constraints

The Contractor must deliver the MRTT BE frame in containers that weigh no more than 2500 lbs when the MRTT BE frame components are included in the weight of the filled container. The containers must fit through a 41"x83" elevator door and a 75"x88"x61" elevator cabin.

12.4 Marking

The Contractor must ensure that the manufacturer's name and part number are clearly stamped or etched on each item for positive identification purposes.

12.5 Labelling

The Contractor must ensure that the manufacturer's and specification numbers appear on each item, either printed on the container or on an adhesive label of highest commercial standard affixed to the container.

12.6 Inspection and Acceptance

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

13. ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)

SACC Manual clause D5545C (2010-08-16) ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)

14. Insurance

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

15. Priority Rating

SACC Manual clause C2800C (2013-01-28) Priority Rating

15.1 Priority Rating - Canadian-based Contractors

SACC Manual clause C2801C (2011-05-16) Priority Rating - Canadian-based Contractors

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DEPARTMENT OF NATIONAL DEFENCE (DND)



ANNEX A

STATEMENT OF WORK

Models of the MRTT BE frames in SolidWorks sldprt and sldasm formats (SOW para 1.6.1.1) may be requested by bidders. Requests are to be directed in writing only to the Contracting Authority. All request for the drawings must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date.

E-mail: sebastian.podlesny@tpsgc-pwgsc.gc.ca

1.0 INTRODUCTION

1.1 Background

1.1.1 The Canadian Advanced Synthetic Environment (CASE) project is a CF wide simulation project mandated to design, build and deploy a nationwide simulation network. This network will be designed to enable real time, joint war gaming, tactics development and mission rehearsal from multiple locations across the nation. The Mission Rehearsal and Tactics Trainer (MRTT) will provide an immersive simulation environment for mission rehearsal and tactics training for the CH146 Griffon fleet in 1 Wing.

1.1.2 The Mission Rehearsal and Tactics Trainer Back End (MRTT BE) will be a full scale (1:1) mock-up of the CH146 aft cabin including seats, belt-restraint systems and door gun pintles. The MRTT BE will allow the door gunners to move anywhere within their station including leaning out the door while secured via the belt restraint system as would be necessary in the CH146 cabin.

1.1.3 A physical proof of concept frame has been produced with associated 3D models in SolidWorks sldprt and sldasm formats to be used as the basis for the frame development and fabrication.

1.1.4 The CASE project is designing the MRTT BE, which will function in conjunction with the cockpit, known as the Mission Rehearsal Tactics Trainer Front End (MRTT FE). The MRTT FE and BE will function together to allow for complete CH146 crew mission training. The MRTT BE frame will also allow for stand-alone training of the flight engineers and door gunners.

1.2 Objectives

1.2.1 The Contractor must:

1.2.1.1 Finalize the development of the MRTT BE frame design;

1.2.1.2 Fabricate and deliver six (6) MRTT BE frames;

1.2.1.3 Update the SolidWorks models and .step files once the modifications are approved by the DND Technical Authority (TA);

1.2.1.4 Design and fabricate modifications to the current Proof of Concept MRTT BE frame; and,

1.2.1.5 Create associated engineering drawings based on the modified Proof of Concept and updated SolidWorks models.

1.3 Scope

1.3.1 The Contractor must perform the following activities, as detailed in this Statement of Work (SOW):

1.3.1.1 Project Management;

1.3.1.2 Development;

1.3.1.3 Fabrication; and

1.3.1.4 Delivery and Acceptance.

1.4 Terminology

CASE	Canadian Advanced Synthetic Environment
DND	Department of National Defense
GFE	Government Furnished Equipment
GFI	Government Furnished Information
MRTT BE	Mission Rehearsal & Tactics Trainer Back End
MRTT FE	Mission Rehearsal Tactics Trainer Front End
PRM	Progress Review Meeting
QA	Quality Assurance
SOW	Statement of Work
TA	Technical Authority
USB	Universal Serial Bus
VSIM	Visualization and Simulation

1.5 Definition

1.5.1 Day - When used in this SOW, the word "day" will be interpreted to mean a regular business day.

1.5.2 All size measurements in this SOW follow a Width x Height x Length format.

1.6 Government Furnished Equipment (GFE) and Information (GFI)

1.6.1 GFE and GFI supplied to the Contractor by the TA includes the following:

1.6.1.1 Models of the MRTT BE frame in SolidWorks sldprt and sldasm formats.

1.6.1.2 The Proof of Concept MRTT BE Frame and MRTT FE Frame, located at the VSIM lab, Carleton University, Ottawa ON, will be made available by the TA for the purpose of reference gathering on an as-requested-and-approved basis only. Once the first MRTT BE frame has been accepted, the Contractor must update the Proof of Concept MRTT BE frame to match the approved MRTT BE frame final design.

2.0 APPLICABLE DOCUMENTS

2.1 List of Documents

2.1.1 ASME Y14.100M - Engineering Drawing Practices

3.0 PROJECT MANAGEMENT

3.1 General

3.1.1 The Contractor must provide all aspects of project management necessary for planning, modifying, documenting, fabricating, delivering and testing the MRTT BE frames as well as providing the materials, services, and data detailed in this SOW.

3.2 Project Schedule

3.2.1 The Contractor must submit and maintain a DND-approved schedule to be used to depict the schedule milestones and status of the schedule for the overall project.

3.2.2 The Contractor must submit a schedule update two (2) days prior to every meeting or upon TA's request.

3.2.3 The project schedule must include forecasted PRMs.

3.3 Reviews and Meetings

3.3.1 General

3.3.1.1 The Contractor must hold the reviews and meetings as identified in paragraphs 3.3.2 through 3.3.3 with the appropriate DND authorities as approved by the TA.

3.3.1.2 The Contractor must ensure that the required data, personnel, and facilities are available for each review and must submit an agenda to the TA via email for review at least two days in advance of each meeting.

3.3.1.3 Upon TA approval, reviews and meetings may be held by teleconference.

3.3.1.4 The Contractor must submit meeting minutes within five (5) days after every meeting.

3.3.2 Kickoff Meeting

3.3.2.1 The Contractor must hold a kickoff meeting within ten days after contract award at the Contractor's facility.

3.3.3 Progress Review Meeting (PRM)

3.3.3.1 The Contractor must hold Progress Review Meetings as per the approved project schedule to review the MRTT BE drawing updates and to resolve any outstanding project issues.

3.3.3.2 During each PRM, the Contractor must present a summary of the project status as of the review date including project progress, known problems, proposed resolutions, drawing and design updates and the impact on the schedule.

3.3.3.3 The Contractor must submit a progress report within five days after each PRM.

3.3.3.4 The TA may cancel a PRM by providing notice at least five (5) days prior to the meeting.

4.0 DEVELOPMENT

4.1 General

4.1.1 The Contractor must fabricate and deliver six (6) MRTT BE frames in accordance with the approved final design.

4.1.2 The Contractor must also fabricate and install the components necessary to update the Proof of Concept MRTT BE frame to match the final design.

4.1.3 The Contractor must update the existing 3D models in accordance with Section 4.2 Design Changes to existing Proof of Concept MRTT BE, while ensuring that the updated design meets the requirements defined in Section 5.0 Fabrication.

4.1.4 The Contractor must create and submit engineering drawings of the updated design for approval to be used to fabricate the six (6) MRTT BE frames and update the Proof of Concept MRTT BE frame in accordance with the approved schedule. These Engineering drawings must be certified and signed off by a Professional Engineer.

4.2 Design Changes to existing Proof of Concept MRTT BE

4.2.1 The Contractor must implement, as a minimum, the following changes to the Proof of Concept MRTT BE design:

4.2.1.1 The addition of two (2) handles on the right side of the MRTT BE frame, one (1) representing the cargo door handle while in the fully open position and the other while the cargo door is only half-open. These handles must be of same height and shape as the ones located on the aircraft.

4.2.1.2 The design and addition of two (2) new pintle mounts which will replace existing mounts. These mounts must:

4.2.1.2.1 Be located on each side of the frame and centered horizontally on the space created by each open door;

4.2.1.2.2 Not move from their setup position despite gun recoil;

4.2.1.2.3 Not be connected to the frame;

4.2.1.2.4 Not be bolted or screwed to the floor; and

4.2.1.2.5 Position/support the guns to match their position in the Proof of Concept MRTT BE frame.

4.2.1.3 The addition of a conduit-based wiring management system that hides wires from view while providing accessibility for maintenance;

4.2.1.4 The removal of the triangular supports to the raised centre cross-beam;

4.2.1.5 The removal of the centre cross-beam;

4.2.1.6 The addition of removable troop seats to match the Proof of Concept MRTT BE frame;

4.2.1.7 The addition of a removable step and a handle located on each side of the transmission for easy access up to the frame floor from the trainer room floor;

4.2.1.8 Removable step must not have a depth of more than 12 inches and must support a weight of 500 lbs;

4.2.1.9 The addition of a lockable sliding door on each side of the transmission.

4.2.1.9.1 These doors must act as a wall/bulkhead when in the closed position;

4.2.1.9.2 These doors must support a direct load of 500lbs as users will brace themselves against it;

4.2.1.10 The addition of twenty-one (21) removable and movable mounts for frame-mounted electronics including:

4.2.1.10.1 Mounts for three (3) USB hubs (each measuring 4"x5.5"x2");

4.2.1.10.2 Mounts for four (4) power bars (each measuring 18"x4"x2");

4.2.1.10.3 Mounts for three (3) Communications Selection & Control (CSC) boxes (each measuring 8.5"x12"x3");

4.2.1.10.4 Nine (9) permanent camera bar mounts. These mounts must be able to:

4.2.1.10.4.1 swivel 90 degrees from a position perpendicular to the frame;

4.2.1.10.4.2 Extend or regress by +/- 6 inches;

4.2.1.10.4.3 Move laterally anywhere along the top bar; and

4.2.1.10.4.4 lock into desired location with no movement.

4.2.1.10.5 Mounts for two (2) Head-Mounted Display boxes (each measuring 2"x9"x5").

4.2.1.11 The addition of a name plate which must include:

- 4.2.1.11.1 Frame unique identifier;
- 4.2.1.11.2 Frame name;
- 4.2.1.11.3 Frame serial number;
- 4.2.1.11.4 Frame manufacturing date.

4.2.2 The Contractor must implement further changes to the design, through a Work Arising, as agreed upon and documented in approved meeting minutes.

4.2.3 Each component must be labelled to identify which of the fabricated MRTT BE frames it belongs to.

4.3 In-plant Approval of Fabricated MRTT BE Frames

4.3.1 Approval of the fabricated MRTT BE Frames must occur at the Contractor's facility to allow DND to:

4.3.1.1 Assess the suitability of each fabricated MRTT BE frame as per the approved schedule and approved design.

4.3.1.2 Witness disassembly and individual packing for delivery of each MRTT BE frame.

4.3.2 The Contractor must assemble each MRTT BE frame in their facility for in-plant approval.

4.3.3 DND may direct the Contractor to make further modifications to the first MRTT BE frame, the updated 3D model and the associated drawings through a Work Arising if additional changes are required.

5.0 FABRICATION

5.1 General Requirements

5.1.1 All components mounted in the MRTT BE must be securely mounted.

5.1.2 All handles, hooks, steps and doorframe components in the MRTT BE frame must support a load in any direction of at least 500 lbs.

5.1.3 The MRTT BE frame must:

5.1.3.1 Place no more than 250 lbs per square foot on the floor upon which it rests.

5.1.3.2 Have individual parts that weigh no more than 60lbs. These individual parts must fit through a 41"x83" elevator door and a 75"x88"x61" elevator cabin.

5.1.3.3 Fit within a space no larger than 108"x100"x130" when fully assembled.

5.1.3.4 Be manufactured according to the approved drawings and 3D models.

5.1.3.5 Be constructed from aluminum (5xxx or 6xxx series), with the exception of frame assembly hardware and the two (2) pintle mounts.

5.1.3.6 Be painted with a black paint that has a matte finish and is non-reflective in the infrared spectrum

5.1.3.7 Have an anti-slip floor coating which must be non-reflective in the infrared spectrum

5.1.3.8 Have reflective edges which must be non-reflective in the infrared spectrum

5.1.3.9 Not have any sharp edges or corners.

5.2 Frame Components

5.2.1 Each of the six (6) MRTT BE frames must include the following components:

- 5.2.1.1 The platform frame;
- 5.2.1.2 The flooring;
- 5.2.1.3 Five (5) seats;
- 5.2.1.4 The stanchion;
- 5.2.1.5 Two (2) removable steps;
- 5.2.1.6 Two (2) doors;
- 5.2.1.7 Two (2) sliding doors;
- 5.2.1.8 Two (2) pintle mounts;
- 5.2.1.9 Two (2) C6 pintles;
- 5.2.1.10 Three (3) USB Hub mounts;
- 5.2.1.11 Four (4) Power Bar mounts;
- 5.2.1.12 Three (3) CSC box mounts;
- 5.2.1.13 Two (2) Head-Mounted Display box mounts;
- 5.2.1.14 Nine (9) camera mounts;
- 5.2.1.15 The gear box; and
- 5.2.1.16 All necessary assembly hardware.

6.0 DELIVERABLES

6.1 Fabricated Frames

- 6.1.1 The Contractor must fabricate and deliver six (6) MRTT BE frame individually packaged as per the approved schedule.

6.2 Proof of Concept Frame

- 6.2.1 The Contractor must update and deliver the proof of concept frame to match the final approved MRTT BE design.

6.3 Supporting Documentation

- 6.3.1 The Contractor must provide the following as part of technical data package:
 - 6.3.1.1 Installation Instructions;
 - 6.3.1.2 Recommended Spare Parts List (if necessary);
 - 6.3.1.3 Recommended Tools List;
 - 6.3.1.4 The final approved Engineering Drawings in pdf format;
 - 6.3.1.5 The final approved Modified 3D models; and
 - 6.3.1.6 Any special instructions for the disposal of the materials.
- 6.3.2 The Contractor must deliver 3D electronic models of the design as sldprt, sldasm and.step files on two (2) DVDs.
- 6.3.3 The Contractor must deliver two (2) DVD which must contain level 2 fabrication prototype and limited design engineering drawings in accordance with ASME Y14.100M Engineering Drawing Practices
- 6.3.4 The Contractor must deliver two (2) printed and bound copies of the level 2 fabrication prototype and limited design engineering drawings in accordance with ASME Y14.100M Engineering Drawing Practices.

Appendix 1 - Supplementary Measurements

Following measurements are approximate and may vary slightly from actual precise measurements:

Back Seat on MRTT BE Prototype:

Height: 37 cm
Width: 42.5 cm
Length: 88 cm

Front Steps on MRTT Front End:

Height: 30 cm
Width: 22 cm
Length: 53 cm

Front Handle on MRTT Front End:

Height from floor: 166cm
Height: 17 cm
Width: 7 cm
Thickness: 2.2 cm

Back Door opening on MRTT BE Prototype:

Height: 157.5 cm
Width: 74 cm

Current Pintle on MRTT BE Prototype:

Height of Pintle from platform: 64 cm
Distance of Pintle from platform: 21 cm
Height of Pintle from the floor: 127cm

ANNEX B**BASIS OF PAYMENT**

Bidders must provide pricing in the format specified, for each component identified in this ANNEX "B" - Financial Proposal / Proposed Basis of Payment. Failure to price one of the components in the format specified will render the proposal non-responsive.

The Bidder must submit firm, all inclusive prices, Delivered Duty Paid (DDP) Incoterms 2010, GST/HST extra if applicable for Items 1, 2, 3, 4, and 5. Prices must include all materials and operations (set-ups, labour, fabrication, etc.) necessary to supply the final products and ready the items for shipping, as well as shipping costs to the destination specified in Annex A.

ITEM 1. Firm Fixed Price to update the existing 3D models and engineering drawings in accordance with Annex A, Section 4.2 Design Changes to existing Proof of Concept MRTT BE and deliver all the supporting documentation specified in Annex A - 6.3 Supporting Documentation:

\$_____ (A)

ITEM 2. Firm Fixed Price for each of the two (2) required MRTT BE Frames delivered to CFB Gagetown within one (1) month after the successful in-plant approval of the first MRTT BE frame:

\$_____ x 2 Frames = \$_____ (B)

ITEM 3. Firm Fixed Price for each of the two (2) required MRTT BE Frames delivered to CFB Valcartier within three (3) months after the successful in-plant approval of the first MRTT BE frame:

\$_____ x 2 Frames = \$_____ (C)

ITEM 4. Firm Fixed Price for each of the two (2) required MRTT BE Frames delivered to CFB Edmonton within five (5) months after the successful in-plant approval of the first MRTT BE frame.

\$_____ x 2 Frames = \$_____ (D)

ITEM 5. Firm Fixed Price to update and deliver the Proof of Concept MRTT BE Frame to the VSIM Lab at Carleton University within five (5) months after the successful in-plant approval of the first MRTT BE frame:

\$_____ (E)

WORK ARISING RATES (ITEMS 6, 7, 8, 9)

The Bidder must submit firm rates to be used for any Work Arisings under the Contract. Each Work Arisings rate will be multiplied by ten (10) hours for evaluation purposes only. This is not a guarantee of the actual number of hours required, nor is it intended to reflect any expectations on behalf of the Government of Canada.

ITEM 6. Mechanical Engineer Hourly Rate:

\$_____ / hr x 10 hours = \$_____ (F)

ITEM 7. CAD Designer/Technician Hourly Rate:

\$_____ / hr x 10 hours = \$_____ (G)

ITEM 8. Project Manager Hourly Rate:

\$_____ / hr x 10 hours = \$_____ (H)

ITEM 9. Metal Fabrication Hourly Rate:

\$_____ / hr x 10 hours = \$_____ (I)

TOTAL EVALUATED PRICE (A+B+C+D+E+F+G+H+I) = \$_____

PROPOSED PAYMENT MILESTONES:

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

Schedule B:

Milestone N°	Description	Firm Amount	Holdback Amount	Due Date	Supporting Documentation and Deliverables
1	Approval of Updated Design				
2	Approval of First Frame				
3	Delivery of 1st CFB Gagetown Frame				
4	Delivery of 2nd CFB Gagetown Frame				
5	Delivery of 1st CFB Valcartier Frame				
6	Delivery of 2nd CFB Valcartier Frame				
7	Delivery of 1st CFB Edmonton Frame				
8	Delivery of 2nd CFB Edmonton Frame				
9	Delivery of Updated Proof of Concept Frame				
10	Completion and Delivery of all Work				