



**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 0B2 / Noyau 0B2

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

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

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

Title - Sujet MRTT CENTRE CONSOLE ASSEMBLIES		
Solicitation No. - N° de l'invitation W8475-165266/A		Date 2016-03-01
Client Reference No. - N° de référence du client W8475-165266		
GETS Reference No. - N° de référence de SEAG PW-\$\$QF-110-25715		
File No. - N° de dossier 110qf.W8475-165266	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-04-11		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: MacNeil, Jennifer		Buyer Id - Id de l'acheteur 110qf
Telephone No. - N° de téléphone (819) 956-5577 ()		FAX No. - N° de FAX (819) 956-5650
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

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

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

1.2 Debriefings

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

1.3 Trade Agreements

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).

1.4 Best Delivery Date - Bid

While delivery is requested 10 months after contract award, the best delivery that could be offered is _____.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: 60 days
Insert: 90 days

2.2 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.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

2.5 Mandatory Site Visit

It is mandatory that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for the site visit to be held at the address below on 21 March 2016. The site visit will begin at **(TBD)**, at Carleton University.

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

DND will make available the proof-of-concept Mission Rehearsal Tactics Trainers (MRTT) for inspection and measurement by all interested bidders. DND's facility at the VSIM building is a secure site and access is strictly controlled. Bidders must communicate with the Contracting Authority no later than 14 March 2016, 14:00 EST to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders will be required to sign an attendance sheet. Bidders should confirm in their bid that they have attended the site visit. Bidders who do not attend the mandatory site visit or do not send a representative will not be given an alternative appointment and their bid will be declared non-responsive. 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

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (two hard copies, one soft copy)

Section II: Financial Bid (one hard copy)

Section III: Certifications (one 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 explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

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

3.1.1 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

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

See Annex A.

4.1.2 Financial Evaluation

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

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16), Basis of Selection – Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

5.2.2 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - 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.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

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

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

[2010A](#) (2015-09-03), General Conditions – Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before _____ (filled in at contract award).

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6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Jennifer MacNeil
Public Works and Government Services Canada
Acquisitions Branch
Electronics, Simulators and Defence Systems
11 Laurier Street, Phase III
Place du Portage, Hull, Quebec, K1A 0S5

Telephone: (819) 956-5577
Facsimile: (819) 956-5650
E-mail address: jennifer.macneil@tpsgc-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.

6.5.2 Technical Authority

The Technical Authority for the Contract is: **(filled in at contract award)**

Name: _____
Title: _____
Organization: _____
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.

6.5.3 Procurement Authority

The Procurement Authority for the Contract is: **(filled in at contract award)**

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

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

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The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.4 Contractor's Representative (Bidder must complete)

General enquiries

Name: _____
Telephone No. _____
Facsimile No. _____
E-mail address: _____

Delivery Follow-up

Name: _____
Telephone No. _____
Facsimile No. _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in the Contract at Annex A for a cost of \$ _____ (filled in at contract award). Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Milestone Payments

SACC Manual clause [H3010C](#) (2016-01-28), Milestone Payments

6.6.3 Schedule of Milestones

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

Milestone No.	Description or "Deliverable"	Firm Amount	Due Date or "Delivery Date"
001	On completion of the initial Program Review Meeting (kick-off) and acceptance of Minutes of Meeting. On delivery and acceptance by the DND TA of the Project Schedule.	5%	
002	On delivery and acceptance by the DND TA of the revised technical drawings. On completion and acceptance by the DND TA of the Critical Design Review	15%	
003	On delivery and acceptance by the DND TA of the first CH146 MRTT Centre Console Assembly.	30%	
004	On delivery and acceptance by the DND TA of the second CH146 MRTT Centre Console Assembly and the MRTT CSC Panels.	40%	
005	On satisfactory completion and acceptance by the DND TA and the PWGSC CA of all deliveries required by the Contract	10%	

6.6.4 SACC Manual Clauses

C2000C (2007-11-30), Taxes - Foreign-based Contractor

6.7 Invoicing Instructions

1. The Contractor must submit a claim for payment using form [PWGSC-TPSGC 1111](#), Claim for Progress Payment.
Each claim must show:
 - a. all information required on form [PWGSC-TPSGC 1111](#);
 - b. all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
 - c. the description and value of the milestone claimed as detailed in the Contract.
2. Applicable Taxes, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous claims for progress payments.
3. The Contractor must prepare and certify one original and two (2) copies of the claim on form [PWGSC-TPSGC 1111](#), and forward it to the Technical Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.
The Technical Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.
4. The Contractor must not submit claims until all work identified in the claim is completed.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, 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.

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions [2010A](#) (2015-09-03), Goods (Medium Complexity);
- (c) Annex A, Pricing Schedule;
- (d) Annex B, Statement of Work;
- (e) the Contractor's bid dated _____, (filled in at contract award).

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6.11 Defence Contract

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

6.12 SACC Manual Clauses

D2000C (2007-11-30), Marking
D2001C (2007-11-30), Labelling
D5545C (2010-08-16), ISO 9001:2008 - Quality Management Systems - Requirements (Quality Assurance Code C)

6.13 Shipping Instructions - Delivery at Destination

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

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

6.14 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.

6.15 Packaging Requirement using Specification D-LM-008-036/SF-000

The Contractor must prepare 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 items in quantities of one (1) per package.

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ANNEX A
PRICING SCHEDULE

1. Requirement: (Bidders must complete)

The contractor must provide two (2) CH 146 MRTT Centre Console Assemblies and two (2) MRTT CSC Panels for Non-Pilot Stations – Spares as detailed in the table below.

Item	Description	Qty	Firm Price	Delivery Date Offered
1	CH146 MRTT Centre Console Assemblies	2	_____/each	
2	MRTT CSC Panels for Non-Pilot Stations - spares	2	_____/each	

All prices provided in this schedule are quoted in the following currency:_____.

DEPARTMENT OF NATIONAL DEFENCE (DND)



**ANNEX B - STATEMENT OF WORK
FOR THE
CH146 MISSION REHEARSAL TACTICS TRAINER
CENTRE CONSOLE ASSEMBLY**

Prepared by:

DAEPM(R&CS) 6
National Defence Headquarters
Major General George R. Pearkes Building
Ottawa, Ontario
K1A 0K2

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1.0 INTRODUCTION

1.1 Purpose

1.1.1 This SOW details the requirements and the various tasks to be performed by the Contractor for the production, support, documentation, and delivery of simulated CH146 Griffon Helicopter Centre Console Assemblies for use in the Canadian Forces (CF) Mission Rehearsal Tactics Trainer (MRTT), and their associated documentation and spares.

1.2 Background

1.2.1 A DND project entitled the Canadian Advanced Synthetic Environment (CASE) is in the process of establishing a capability to perform mission training within a synthetic environment distributed across a network. These simulated missions will involve entities from all elements and fleets of the Canadian Forces, as well as additional entities from Canada's ally countries.

1.2.2 The CH146 Griffon Helicopter aircrew will conduct tactical mission training on the CASE network via CH146 MRTTs, simulators for the specific purpose of providing aircrew with the essential systems, environment, and controls involved in a tactical scenario. The CH146 MRTTs have been deployed to various locations over an expected service life of 15 years.

1.3 Terminology

- 1.3.1 Center Console Structure (CCS)
- 1.3.2 Critical Design Review (CDR)
- 1.3.3 Control Display Unit (CDU)
- 1.3.4 Communication Systems Control (CSC)
- 1.3.5 Government Supplied Material (GSM)
- 1.3.6 Government Furnished Information (GFI)
- 1.3.7 Mission Rehearsal Tactics Trainers (MRTT)
- 1.3.8 Site Acceptance Testing (SAT)
- 1.3.9 Statement of Work (SOW)
- 1.3.10 Technical Authority (TA)
- 1.3.11 Touch Screen Monitor (TSM)

2.0 GOVERNMENT FURNISHED INFORMATION & SUPPLIED MATERIEL (GFI/GSM)

2.1.1 GFI and GSM supplied to the Contractor by the TA includes the following:

2.1.1.1 Full technical drawings of the center console assembly including assembly instructions to be provided at the mandatory site visit

2.1.1.2 An assembled center console unit is located at DND's lab facility at Carleton University and will be made available for inspection upon request.

2.1.1.3 DND Acceptance Checklist

2.1.1.4 MRTT Control Display Unit (CDU) Bezels

2.1.1.5 MRTT Communication Systems Control (CSC) Faceplates

2.1.1.6 Touch Screen Monitor (TSM)

3.0 APPLICABLE DOCUMENTS

3.1.1 DND Acceptance Checklist

4.0 PROJECT MANAGEMENT

4.1 General

4.1.1 The Contractor must provide all aspects of project management necessary for planning, documenting, fabricating and delivering the MRTT Center Consoles as well as providing the materials, services, and data detailed in this SOW.

4.2 Project Schedule

4.2.1 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.

4.2.2 The Contractor must submit a schedule update five (5) working days prior to every meeting or upon TA's request.

4.3 Reviews and Meetings

4.3.1 General

4.3.1.1 The Contractor must hold the reviews and meetings as identified in paragraphs 4.3.2 through 4.3.3 with the appropriate DND authorities as approved by the TA.

4.3.1.2 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.

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

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

4.3.2 Kickoff Meeting

4.3.2.1 The Contractor must hold a kickoff meeting within ten (10) days after contract award via teleconference..

4.3.3 Critical Design Review Meeting (CDR)

4.3.3.1 The Contractor must hold a Critical Design Review Meeting to resolve any outstanding project issues prior to the start of manufacturing.

4.3.3.2 The intent of this CDR is for the Contractor and DND to resolve any concerns regarding the technical drawings provided and/or the work to be completed.

4.3.3.3 During the CDR, the Contractor must present a summary of the project status including project progress, known problems, proposed resolutions, and the impact on the schedule.

4.3.3.4 The Contractor must submit a progress report within five (5) days after the CDR.

4.3.3.5 The TA may reschedule the CDR by providing notice at least -ten (10) working days prior to the meeting.

5.0 SUPPORT

5.1 General

5.1.1 The Contractor must provide the requisite expertise to provide telephone technical support on an as-needed basis for the integration and on-site acceptance testing of the deliverables required under this SOW.

5.1.2 The Contractor must provide the telephone technical support until acceptance testing is completed.

5.2 Maintenance Concept

5.2.1 The MRTT Centre Console will be DND operator maintained over an expected service life of 15 years, with the level of maintenance not exceeding the replacement of line replaceable units, knobs, fasteners, and cover panels.

6.0 TECHNICAL REQUIREMENTS

6.1 General

6.1.1 All components within the MRTT Centre Console Assembly must be securely mounted.

6.1.2 All wiring within the MRTT Centre Console Assembly must be routed in an organized manner.

6.1.3 The primary material used in construction of the Assembly must be ASTM 5052-H32.

6.2 Quality

6.2.1 The deliverables must be free from burrs, and not have any sharp edges or corners.

6.2.2 The Contractor must label all connectors to clearly indicate their associated system.

6.3 Interface to the DND Simulation Host

6.3.1 DND will be responsible for providing the requisite cables to connect the MRTT Centre Console Assembly to the DND Simulation Host, and to the power source. DND will route the cables through the floor of the MRTT cockpit to connect to the MRTT Centre Console Assembly.

6.4 Centre Console Structure (CCS) Requirements

6.4.1 CCS Dimensions:

6.4.1.1 The MRTT Centre Console Assembly Drawings shows the mounting provisions that the CCS must fit within.

6.4.1.2 The mounting structure is part of the MRTT Cockpit, and does not require fabrication by the Contractor. The function of mounting provisions is to prevent lateral CCS movement.

6.4.2 CCS Construction:

6.4.2.1 The exterior colour of the CCS must be matte black.

7.0 ACCEPTANCE TESTING

7.1 General

7.1.1 Acceptance testing will be done by DND/CAF designated personnel at the consignee location upon receipt of each deliverable.

7.2 Site Acceptance Test (SAT)

7.2.1 An SAT will be conducted by DND/CAF for each deliverable with support provided by the Contractor to rectify any deficiencies.

7.2.2 The SAT will include as a minimum, the existing DND acceptance checklist to verify successful physical integration with the MRTT cockpit, and integration to the DND Simulation Host.

8.0 DELIVERABLES

8.1 Hardware

8.1.1 The Contractor must manufacture, assemble and deliver all the Work described in this section.

8.1.2 The Contractor must manufacture both the mechanical and electronic components of the Center Console Assembly and spare CSC panels.

8.1.3 The Contractor must manufacture Center Console Assemblies and spare CSC panels in accordance with the specifications listed in the technical drawings provided at 2.1.1.1, including physical dimensions, materials, finishes and fasteners.

8.1.4 CH146 MRTT Centre Console Assemblies: The Contractor must deliver two (2) fully assembled Centre Console Assemblies. Each assembly must consist of the following:

8.1.4.1 MRTT Communication System Control (CSC) Panels (two per Centre Console) are instrument panels that have the looks, feels, and controls that move in the same manner as the actual CH146 CSC panel, as per the provided technical drawings.

Note: The CSC faceplate will be provided as GSM.

8.1.4.2 The MRTT CSC panel must encode panel inputs by operators, and output them over a digital communications interface as per the provided technical drawings.

8.1.4.3 MRTT Control Display Unit (CDU) Panels (two per Centre Console) are instrument panels have the looks, feels, and controls that move in the same manner as the actual CH146 CDU panel, as per the provided technical drawings. *Note: the CDU bezel will be provided as GSM.*

8.1.4.4 The MRTT CDU panel must encode the panel inputs by operators, and output them over a digital communications interface as per the provided technical drawings.

8.1.4.5 The MRTT CDU must have a display screen with a digital interface that allows its visuals to be generated by the DND Simulation Host as per the provided technical drawings.

8.1.4.6 MRTT Touch Screen Monitor (TSM) – (one per Centre Console): The TSM must allow interaction with displayed representations of other CH146 Centre Console instruments as per the provided technical drawings. *Note: The TSM screen will be provided as GFM.*

8.1.4.7 Touch inputs to the TSM must be outputted over a digital communications interface as per the technical drawings.

8.1.4.8 MRTT Centre Console Structure (CCS): An enclosure onto which the MRTT CDU, CSC, and TSM must be installed, as per the provided technical drawings and assembly instructions.

8.1.5 MRTT CSC Panels for Non-Pilot Stations – (two): The CSC Panels must be identical to units for the MRTT Centre Console Assembly.

8.1.6 Hardware Quantities – The Contractor must provide the quantity of each deliverable shown in Table 1.0.

Table 1.0: Hardware Deliverable Quantities

Item	Quantities Required
CH146 MRTT Centre Console Assemblies	2
MRTT CSC Panels for Non-Pilot Stations - spares	2

8.2 Documentation

8.2.1 The Contractor must deliver the following documentation to DND TA:

8.2.1.1 Log of all TA approved changes to the provided technical drawings;

8.2.1.2 Updated applicable technical drawings as approved by the TA;

8.2.2 The Contractor must provide two (2) copies of the updated technical drawings in electronic format, each delivered on a USB key; and

8.2.3 All documentation will be reviewed and approved by DND TA prior to acceptance.



Claim No.
N° de la demande

Contract Serial No.
N° de série du contrat

CERTIFICATE OF CONTRACTOR

I certify that:

- All authorizations required under the contract have been obtained. The claim is consistent with the progress of the work and is in accordance with the contract.
- Indirect costs have been paid for or accrued in the accounts.
- Direct materials and the subcontracted work have been received, accepted and either paid for or accrued in the accounts following receipt of invoice from supplier/subcontractor, and have been or will be used exclusively for the purpose of the contract.
- All direct labour costs have been paid for or accrued in the accounts and all such costs were incurred exclusively for the purpose of the contract;
- All other direct costs have been paid for or accrued in the accounts following receipt of applicable invoice or expense voucher and all such costs were incurred exclusively for the purpose of the contract; and
- No liens, encumbrances, charges or other claims exist against the work except those which may arise by operation of law such as a lien in the nature of an unpaid contractor's lien and in respect of which a progress payment and/or advance payment has been or will be made by Canada.

ATTESTATION DE L'ENTREPRENEUR

J'atteste que :

- Toutes les autorisations exigées en vertu du contrat ont été obtenues. La demande correspond à l'avancement des travaux et est conforme au contrat.
- Les coûts indirects ont été réglés ou portés aux livres.
- Les matières directes et les travaux de sous-traitance ont été reçus, et le tout a été accepté et payé, ou encore porté aux livres après réception de factures envoyées par le fournisseur ou le sous-traitant; ces matières et ces travaux ont été ou seront utilisés exclusivement aux fins du contrat.
- Tous les coûts de la main-d'œuvre directe ont été réglés ou portés aux livres et tous ces coûts ont été engagés exclusivement aux fins du contrat.
- Tous les autres coûts indirects ont été réglés ou portés aux livres après réception des factures ou pièces justificatives pertinentes et tous ces coûts ont été engagés exclusivement aux fins du contrat.
- Il n'existe aucun privilège ni demande ou imputation à l'égard de ces travaux sauf ceux qui pourraient survenir par effet de la loi, notamment le privilège d'un entrepreneur non payé à l'égard duquel un paiement progressif et/ou un paiement anticipé a été ou sera effectué par le Canada.

Contractor's Signature - Signature de l'entrepreneur

Check the box if the claim is being made with respect to advance payment provisions included in the basis of payment of the contract. ☐

This claim, or a portion of this claim, is for an advance payment.

I certify that:

- The funds received will be used solely for the purpose of the contract and attached is a complete description of the purpose to which the advance payment will be applied.
- The amount of the payment is established in accordance with the conditions of the contract.
- The contractor is not in default of its obligations under the contract.
- The payment is related to an identifiable part of the contractual work.

Title - Titre

Cocher la case si la demande est faite en rapport avec les dispositions relatives aux paiements anticipés qui se trouvent dans la base de paiement du contrat.

Cette demande, ou une partie de cette demande, est pour un paiement anticipé.

J'atteste que :

- Les fonds reçus ne serviront uniquement qu'aux fins du contrat; ci-joint est une description complète des fins auxquelles le paiement anticipé sera utilisé.
- Le montant du paiement est établi conformément aux conditions du contrat.
- L'entrepreneur n'a pas manqué à ses obligations en vertu du contrat.
- Le paiement porte sur une partie identifiable des travaux précisés dans le contrat.

Date (YYYY-MM-DD / AAAA-MM-JJ)

Contractor's Signature - Signature de l'entrepreneur

CERTIFICATES OF DEPARTMENTAL REPRESENTATIVES

Scientific/Project/Inspection Authority: I certify that the work meets the quality standards required under the contract, and its progress is in accordance with the conditions of the contract.

Inspection Authority (all other contracts): I certify that the quality of the work performed is in accordance with the standards required under the contract.

Title - Titre

ATTESTATIONS DES REPRÉSENTANTS DU MINISTÈRE

Autorité scientifique ou responsable du projet / de l'inspection : J'atteste que les travaux sont conformes aux normes de qualité exigées en vertu du contrat et que leur avancement est conforme aux conditions du contrat.

Responsable de l'inspection (tous les autres contrats) : J'atteste que la qualité des travaux exécutés est conforme aux normes exigées en vertu du contrat.

Date (YYYY-MM-DD / AAAA-MM-JJ)

Signature of Scientific / Project / Inspection Authority
Signature de l'autorité scientifique ou responsable du projet / de l'inspection

Date (YYYY-MM-DD / AAAA-MM-JJ)

PWGSC Contracting Authority: I certify that, to the best of my knowledge, the claim is consistent with the progress of the work and is in accordance with the contract. This claim, however, may be subject to further verification and any necessary adjustment before final settlement.

Autorité contractante de TPSGC : J'atteste, au meilleur de ma connaissance, que la demande correspond à l'avancement des travaux et est conforme au contrat. Toutefois, cette demande pourrait faire l'objet d'une autre vérification et de tout rajustement nécessaire avant le règlement final.

Contracting Authority Signature de l'autorité contractante

Client's Authorized Signing Officer - (must sign the interim claim): I certify that the claim is in accordance with the contract.

Title - Titre

Signataire autorisé du client - (doit signer la demande provisoire) : J'atteste que la demande est conforme au contrat.

Date (YYYY-MM-DD / AAAA-MM-JJ)

Client Signature du client

Client's Authorized Signing Officer - (must sign the final claim): I certify that all goods have been received and all services have been rendered, that the work has been properly performed and that the claim is in accordance with the contract.

Title - Titre

Signataire autorisé du client - (doit signer la demande finale) : J'atteste que tous les biens ont été reçus, que tous les services ont été rendus, que tous les travaux ont été exécutés convenablement, et que la demande est conforme au contrat.

Date (YYYY-MM-DD / AAAA-MM-JJ)

Client Signature du client

Title - Titre

Date (YYYY-MM-DD / AAAA-MM-JJ)