Public Works and Government Services Canada | Travaux publics et Services gouvernementaux Canada

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 QUOTATION
DEMANDE DE PRIX

Quotation 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.

Soumission de prix 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 et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Radio- Assaulter	
Solicitation No. - N° de l'invitation W8476-226484/A	**Date** 2021-06-22
Client Reference No. - N° de référence du client W8476-226484	**GETS Ref. No. - N° de réf. de SEAG** PW-$$QD-027-28270
File No. - N° de dossier 027qd.W8476-226484	**CCC No./N° CCC - FMS No./N° VME**

Solicitation Closes - L'invitation prend fin

at - à 02:00 PM Eastern Daylight Saving Time EDT

on - le 2021-08-03 Heure Avancée de l'Est HAE

F.O.B. - F.A.B.

Plant-Usine: ☐ **Destination:** ☐ **Other-Autre:** ☐

Address Enquiries to: - Adresser toutes questions à: Westcott, Karen	**Buyer Id - Id de l'acheteur** 027qd
Telephone No. - N° de téléphone (343)998-5234 ( )	**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 – Voir ci-inclus	**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
Defence Communications Division. (QD)
11 Laurier St./11, rue Laurier
Place du Portage, Phase III, 8C2
Gatineau, Québec K1A 0S5

Canada

Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	CPO1 ADM (Mat) DGMEPM/DGLEPM/DGAEPM ON CANADA	I - 1	DEPT OF NATIONAL DEFENCE DGLEPM CAPITAL 101 COLONEL BY DR. OTTAWA ON K1A 0K2 CANADA Attention : Joseph Chou DLP 3-2-4 W8476
D - 2	7 CFSD - RECEIPTS SECTION CFB Edmonton 195 Ave & 82nd St EDMONTON AB T5J 4J5 CANADA	I - 1	DEPT OF NATIONAL DEFENCE DGLEPM CAPITAL 101 COLONEL BY DR. OTTAWA ON K1A 0K2 CANADA Attention : Joseph Chou DLP 3-2-4 W8476

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Assaulter Radio incl shipping FY 21/22	D - 2	I - 1	1.25	Each	$	$	See Herein – Voir ci-inclus	
2	Audio Cable incl shipping FY 21/22	D - 2	I - 1	1.25	Each	$	$	See Herein – Voir ci-inclus	
3	Data Cable FY 21/22	D - 2	I - 1	1.25	Each	$	$	See Herein – Voir ci-inclus	
4	Programming Cable FY 21/22	D - 2	I - 1	125	Each	$	$	See Herein – Voir ci-inclus	
5	AWR	D - 1	I - 1	500	SU	$	$	See Herein – Voir ci-inclus	
6	Assaulter Radio incl shipping FY 22/23	D - 2	I - 1	1.25	EACH	$	$	See Herein – Voir ci-inclus	
7	Audio Cable incl shipping FY 22/23	D - 2	I - 1	125	EACH	$	$	See Herein – Voir ci-inclus	
8	Data Cable FY 22/23	D - 2	I - 1	1.25	EACH	$	$	See Herein – Voir ci-inclus	
9	Programming Cable FY 22/23	D - 2	I - 1	1.25	EACH	$	$	See Herein – Voir ci-inclus	

INTEGRATED SOLDIER SYSTEM

ACQUISITION AND SUPPORT OF ASSAULTER (ISS-A) RADIO

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION

1.1 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 and Additional Information: includes the certifications and additional information to be provided;

Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

1.2 Summary

1.2.1 Requirement

The Integrated Soldier System (ISS) is a system in use by the Canadian Armed Forces (CAF) that supports the mission of the dismounted soldier by providing situational awareness and better command execution. The basic configuration of the ISS is composed of a Tactical User Interface (TUI), a radio, a Hub and a battery. The ISS-A radio is an important component to the ISS-S as it provides both voice and data communication between soldiers and it automatically generates personal location information (PLI). The CAF is interested in upgrading the existing ISS-A radio in order to benefit from the latest technological advancements available today. In addition, the current assaulter radio (RF-7800S) is approaching end-of-life for support and cannot communicate with other radio models. The delivery points will be to Canadian Forces Supply Depot Edmonton.

1.2.2 The Federal Contractors Program (FCP)

The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Part 5 – Certifications and Additional Information, Part 7 - Resulting Contract Clauses and the annex titled Federal Contractors Program for Employment Equity - Certification.

1.2.3. Epost Connect

This bid solicitation mandates bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information."

1.3 Debriefings

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

1.4 Phased Bid Compliance Process

The Phased Bid Compliance Process applies to this requirement.

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 (2020-05-28) 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: 120 days

Modify 2003 Para 08 (2020-05-28) Transmission by facsimile DELETE Para 1

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 in the bid solicitation.

Note: bidders must only submit using epost Connect for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions 2003, or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

2.2.1 epost Connect

a. Unless specified otherwise in the bid solicitation, bids **must** be submitted by using the epost Connect service provided by Canada Post Corporation.

i. PWGSC, National Capital Region: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC headquarters is: tpsgc.dgareceptiondessoumissions-abbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca, or, if applicable, the email address identified in the bid solicitation.
ii. PWGSC regional offices: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.

b. To submit a bid using epost Connect service, the Bidder must either:
   i. send directly its bid only to the specified PWGSC Bid Receiving Unit, using its own licensing agreement for epost Connect provided by Canada Post Corporation; or
   ii. send as early as possible, and in any case, at least six business days prior to the solicitation closing date and time, (in order to ensure a response), an email that includes the bid solicitation number to the specified PWGSC Bid Receiving Unit requesting to open an epost Connect conversation. Requests to open an epost Connect conversation received after that time may not be answered.

c. If the Bidder sends an email requesting epost Connect service to the specified Bid Receiving Unit in the bid solicitation, an officer of the Bid Receiving Unit will then initiate an epost Connect conversation. The epost Connect conversation will create an email notification from Canada Post Corporation prompting the Bidder to access and action the message within the conversation. The Bidder will then be able to transmit its bid afterward at any time prior to the solicitation closing date and time.

d. If the Bidder is using its own licensing agreement to send its bid, the Bidder must keep the epost Connect conversation open until at least 30 business days after the solicitation closing date and time.

e. The bid solicitation number should be identified in the epost Connect message field of all electronic transfers.

f. It should be noted that the use of epost Connect service requires a Canadian mailing address. Should a bidder not have a Canadian mailing address, they may use the Bid Receiving Unit address specified in the solicitation in order to register for the epost Connect service.

g. For bids transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:

   i. receipt of a garbled, corrupted or incomplete bid;
   ii. availability or condition of the epost Connect service;
   iii. incompatibility between the sending and receiving equipment;
   iv. delay in transmission or receipt of the bid;
   v. failure of the Bidder to properly identify the bid;
   vi. illegibility of the bid;
   vii. security of bid data; or,
   viii. inability to create an electronic conversation through the epost Connect service.

h. The Bid Receiving Unit will send an acknowledgement of the receipt of bid document(s) via the epost Connect conversation, regardless of whether the conversation was initiated by the supplier using its own license or the Bid Receiving Unit. This acknowledgement will confirm only the receipt of bid document(s) and will not confirm if the attachments may be opened nor if the content is readable.

i. Bidders must ensure that that they are using the correct email address for the Bid Receiving Unit when initiating a conversation in epost Connect or communicating with the Bid Receiving Unit and should not rely on the accuracy of copying and pasting the email address into the epost Connect system.

j. A bid transmitted by epost Connect service constitutes the formal bid of the Bidder and must be submitted in accordance with section 05.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 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 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 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 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 Contracting Authority at least 10 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.6 Bid Challenge and Recourse Mechanisms

(a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada’s Buy and Sell website, under the heading “Bid Challenge and Recourse Mechanisms” contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

The Bidder **must** submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

If the Bidder provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex "B.

3.1.1 Electronic Payment of Invoices – Bid

Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

C3010T (2014-11-27), Exchange Rate Fluctuation Risk Mitigation,
C3011T (2017-08-17), Exchange Rate Fluctuation

3.1.3 SACC *Manual* Clauses

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Phased Bid Compliance Process (PBCP)

4.1.1 General

a) Canada is conducting the Phased Bid Compliance Process described below for this requirement.

b) Notwithstanding any review by Canada at Phase I or II of the Phased Bid Compliance Process, Bidders are and will remain solely responsible for the accuracy, consistency and completeness of their Bids and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Bids or in responses by a Bidder to any communication from Canada.

THE BIDDER ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PHASED BID COMPLIANCE PROCESS ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE BID IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE BID HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A BID TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE. THE BIDDER ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS BID RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS BID NON-RESPONSIVE TO OTHER MANDATORY REQUIREMENTS.

c) Canada may, in its discretion, request and accept at any time from a Bidder and consider as part of the Bid, any information to correct errors or deficiencies in the Bid that are clerical or administrative, such as, without limitation, failure to sign the Bid or any part or to checkmark a box in a form, or other failure of format or form or failure to acknowledge; failure to provide a procurement business number or contact information such as names, addresses and telephone numbers; inadvertent errors in numbers or calculations that do not change the amount the Bidder has specified as the price or of any component thereof that is subject to evaluation. This shall not limit Canada's right to request or accept any information after the bid solicitation closing in circumstances where the bid solicitation expressly provides for this right. The Bidder will have the time period specified in writing by Canada to provide the necessary documentation. Failure to meet this deadline will result in the Bid being declared non-responsive.

d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2003 (2018-05-22) Standard Instructions – Goods or Services – Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right, or in the circumstances described in subsection (c).

e) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Bidder must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Bidder at any address provided by the Bidder in or pursuant to the Bid is deemed received by the Bidder on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.1.1.**2 Phase I: Financial Bid**

a) After the closing date and time of this bid solicitation, Canada will examine the Bid to determine whether it includes a Financial Bid and whether any Financial Bid includes all information required by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the bid solicitation to be included in the Financial Bid is missing from the Financial Bid. This review will not assess whether the Financial Bid meets any standard or is responsive to all solicitation requirements.

b) Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.

c) If Canada determines, in its absolute discretion that there is no Financial Bid or that the Financial Bid is missing all of the information required by the bid solicitation to be included in the Financial Bid, then the Bid will be considered non-responsive and will be given no further consideration.

d) For Bids other than those described in c), Canada will send a written notice to the Bidder ("Notice") identifying where the Financial Bid is missing information. A Bidder whose Financial Bid has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Bidders shall not be entitled to submit any additional information in respect of their Financial Bid.

e) The Bidders who have been sent a Notice shall have the time period specified in the Notice (the " Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.

f) In its response to the Notice the Bidder will be entitled to remedy only that part of its Financial Bid which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Bid, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Bid, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Bidder and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.

g) Any other changes to the Financial Bid submitted by the Bidder will be considered to be new information and will be disregarded. There will be no change permitted to any other Section of the Bidder's Bid. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, **only** that part of the original Financial Bid as is permitted above, and will be used for the remainder of the bid evaluation process.

h) Canada will determine whether the Financial Bid is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Bidder in accordance with this Section. If the Financial Bid is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.

i) Only Bids found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.1.1.3 Phase II: Technical Bid

a) Canada's review at Phase II will be limited to a review of the Technical Bid to identify any instances where the Bidder has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Bid meets any standard or is responsive to all solicitation requirements. Eligible

Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the Phased Bid Compliance Process. Mandatory technical criteria that are not identified in the solicitation as being subject to the Phased Bid Compliance Process, will not be evaluated until Phase III.

b) Canada will send a written notice to the Bidder (Compliance Assessment Report or "CAR") identifying any Eligible Mandatory Criteria that the Bid has failed to meet. A Bidder whose Bid has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Bid has been found responsive to the requirements reviewed at Phase II. Such Bidder shall not be entitled to submit any response to the CAR.

c) A Bidder shall have the period specified in the CAR (the "Remedy Period") to remedy the failure to meet any Eligible Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.

d) The Bidder's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Bidder which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Bid, the Bidder shall identify such additional changes, provided that its response must not include any change to the Financial Bid.

e) The Bidder's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Bid, the wording of the proposed change to that section, and the wording and location in the Bid of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Bidder must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Eligible Mandatory Criterion. It is not up to Canada to revise the Bidder's Bid, and failure of the Bidder to do so in accordance with this subparagraph is at the Bidder's own risk. All submitted information must comply with the requirements of this solicitation.

f) Any changes to the Bid submitted by the Bidder other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, **only** that part of the original Bid as is permitted in this Section.

g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Bid, but will be considered by Canada in the evaluation of the Bid at Phase II only for the purpose of determining whether the Bid meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase or decrease any score that the original Bid would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Bidder in response to the CAR. If so, the Bid will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Bidder shall bind the Bidder as part of its Bid, but the Bidder's original score, which was less than the mandatory minimum for such Eligible Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Bid.

h) Canada will determine whether the Bid is responsive for the requirements reviewed at Phase II,

considering such additional or different information or clarification as may have been provided by the Bidder in accordance with this Section. If the Bid is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Bid shall be considered non-responsive and will receive no further consideration.

i) Only Bids found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III evaluation.

4.1.1.4 Phase III: Final Evaluation of the Bid

a) In Phase III, Canada will complete the evaluation of all Bids found responsive to the requirements reviewed at Phase II. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

b) A Bid is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.2 Technical Evaluation

4.2.1 Mandatory Technical Criteria

Mandatory technical evaluation criteria are included in Annex A, Appendix 4.

The Phased Bid Compliance Process will apply to all mandatory technical criteria.

4.3 Financial Evaluation

4.3.1. Financial Bids will be evaluated in Canadian currency. Prices submitted in foreign currency will be converted to Canadian dollars based on the exchange rate provided by the Bank of Canada at 16:30 Eastern Time (ET) on the date of the RFP closing date and the resulting conversion values will be used for the evaluation.

4.3.2. Financial bids will be evaluated based on prices received from Bidders set out in Annex C. The evaluated price will be the sum of the totals of Table 1, Table 2, Table 4, Table 5 and Table 6. No other pricing or financial information, if provided, will be evaluated.

4.4 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 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. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority 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 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the Integrity declaration form available on the Forms for the Integrity Regime website (http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-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 specified will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the Ineligibility and Suspension Policy (http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

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" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website (https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#).

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 – CONTROLLED GOODS

6.1 As the resulting contract will require the production of or access to controlled goods that are subject to the *Defence Production Act*, R.S. 1985, c. D-1, bidders are advised that within Canada only persons who are registered, exempt or excluded under the Controlled Goods Program (CGP) are lawfully entitled to examine, possess or transfer controlled goods. Details on how to register under the CGP are available at: Controlled Goods Program and registration is carried out as follows:

a. When the bid solicitation includes controlled goods information or technology, the Bidder must be registered, exempt or excluded under the CGP before receiving the bid solicitation. Requests for technical data packages or specifications related to controlled goods should be made in writing to the Contracting Authority identified in the bid solicitation and must contain the CGP registration number or written proof of exemption or exclusion of the Bidder and of any other person to whom the Bidder will give access to the controlled goods.

b. When the bid solicitation does not include controlled goods information or technology but the resulting contract requires the production of or access to controlled goods, the successful Bidder and any subcontractor who will be producing or accessing controlled goods must be registered, exempt or excluded under the CGP before examining, possessing or transferring controlled goods.

c. When the successful Bidder and any subcontractor proposed to examine, possess or transfer controlled goods are not registered, exempt or excluded under the CGP at time of contract award, the successful Bidder and any subcontractor must, within seven (7) working days from receipt of written notification of contract award, ensure that the required application(s) for registration or exemption are submitted to the CGP. No examination, possession or transfer of controlled goods must be performed until the successful Bidder has provided proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt, or excluded under the CGP.

Failure to provide proof, satisfactory to the Contracting Authority, that the successful Bidder and any subcontractor are registered, exempt or excluded under the CGP, within thirty (30) days from receipt of written notification of contract award, will be considered a default under the resulting contract except to the extent that Canada is responsible for the failure due to delay in processing the application.

2. Bidders are advised that all information on the Application for Registration (or exemption) Form will be verified and errors or inaccuracies may cause significant delays and/or result in denial of registration or exemption.

PART 7 - RESULTING CONTRACT CLAUSES

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

7.1 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A.

7.1.1 Option to Purchase

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

7.1.2 Task Authorization

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

7.1.2.1 Task Authorization Process

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

1. The Technical Authority will provide the Contractor with a description of the task using the "Task Authorization Form "DND 626, Task Authorization Form" *or* "Task Authorization" form specified in Annex E.

2. The Task Authorization (TA) will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The TA will also include the applicable basis (bases) and methods of payment as specified in the Contract.

3. The Contractor must provide the Technical Authority, within 15 calendar days of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment Annex B specified in the Contract.

4. The Contractor must not commence work until a TA authorized by the Contracting Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

7.1.2.2 Canada's Obligation - Portion of the Work - Task Authorizations

Canada's obligation with respect to the portion of the Work under the Contract that is performed through task authorizations is limited to the total amount of the actual tasks performed by the Contractor.

7.1.2.3 Periodic Usage Reports - Contracts with Task Authorizations

The Contractor must compile and maintain records on its provision of services to the federal government under authorized Task Authorizations issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If services are not provided during a given period, the Contractor must still provide a "nil" report.

The data must be submitted on a quarterly basis to the Contracting Authority.

The quarterly periods are defined as follows:

1st quarter: April 1 to June 30;

2nd quarter: July 1 to September 30;

3rd quarter: October 1 to December 31; and

4th quarter: January 1 to March 31.

The data must be submitted to the Contracting Authority no later than 10 calendar days after the end of the reporting period.

7.2 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.

7.2.1 General Conditions

2030 (2020-05-28), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

Modify 2030 22 (2014-09-25) Para 1 to read warranty 24 Months

7.2.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase,

4006 (2010-08-16), Contractor to Own Intellectual Property Rights in Foreground Information

7.3 Security Requirements

There is no security requirement applicable to the Contract.

7.4 Term of Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two additional one year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 30 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

7.4.1 Period of the Contract

The period of the contract is defined as being from the date of contract award until all services and deliverables have been delivered and accepted, all warranties have expired, and no outstanding warranty issues exist.

7.4.2 Delivery Date

All of the firm deliverables must be received on or before 30 weeks after contract award.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Ms. Karen Westcott
Supply Team Leader
Public Services and Procurement Canada
Acquisitions Branch (LAEPSS)
Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC K1A 0S5
Government of Canada
Telephone: (343) 998-5234
E-mail: karen.westcott@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.

7.5.2 Technical Authority

The Technical Authority for the Contract is:

To be inserted at Contract award.

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.

7.5.3 Procurement Authority

The Procurement Authority for the Contract is:

To be inserted at Contract award.

The Procurement 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 financial and technical content of the Work under the Contract. Technical matters may be discussed with the Procurement Authority; however the Procurement Authority has no authority to authorize changes to the scope of the Work or the pricing in the Basis of Payment (Annex C). Changes to the scope of the Work or the Basis of Payment can only be made through a contract amendment issued by the Contracting Authority.

7.5.4 Contractor's Representative

Bidders to provide name, title, telephone number and email address.

7.6 Payment

7.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices as specified in Annex B – Basis of Payment, for a cost of $ _____ . Customs duties are excluded and Applicable Taxes are 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.

7.6.2 Limitation of Expenditure - Cumulative Total of all Task Authorizations

1. Canada's total liability to the Contractor under the Contract for all authorized Task Authorizations (TAs), inclusive of any revisions, must not exceed the sum of $ _____ . Customs duties are included and Applicable Taxes are extra.

2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.

3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

    a. when it is 75 percent committed, or

    b. four (4) months before the contract expiry date, or

    c. as soon as the Contractor considers that the sum is inadequate for the completion of the Work required in all authorized TAs, inclusive of any revisions,
    whichever comes first.

4. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority, a written estimate for the additional funds required. Provision of such information by the contractor does not increase Canada's liability.

7.6.4 Method of Payment (Multiple Payments)

Canada will pay the Contractor upon completion and delivery of units 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.

7.6.5 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

a. Direct Deposit (Domestic and International);
b. Electronic Data Interchange (EDI);
c. Wire Transfer (International Only);

7.6.6 Time Verification

Time charged and the accuracy of the Contractor's time recording system are subject to verification by Canada, before or after payment is made to the Contractor. If verification is done after payment, the Contractor must repay any overpayment, at Canada's request.

7.7 Certifications and Additional Information

7.7.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

7.7.2 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 Employment and Social Development Canada (ESDC)-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 ESDC will constitute the Contractor in default as per the terms of the Contract.

7.8 Applicable Laws

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

7.9 Priority of Documents

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

(a) the Articles of Agreement;
(b) the supplemental general conditions 4001 (2015-04-01) and 4006 (2010-08-16);
(c) the general conditions 2030 (2020-05-28);
(d) Annex A, Statement of Work including Appendix 1, 2 and 3;
(e) Annex B, Basis of Payment;
(f) the signed Task Authorizations (including all of its annexes, if any) (*if applicable*);
(g) the Contractor's bid dated _____.

7.10 Defence Contract

The Contract is a defence contract within the meaning of the *Defence Production Act*, R.S.C. 1985, c. D-1, and must be governed accordingly.

Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the *Defence Production Act*.

7.11 Insurance Requirements

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

7.12 Controlled Goods

The Contract involves controlled goods as defined in the Schedule to the *Defence Production Act*. The Contractor must identify those controlled goods to the Department of National Defence.

7.13 Additional Package Markings - Identical

The Contractor must ensure that in addition to the required interior and exterior package markings, the following information is provided:

a. manufacturer’s name;
b. manufacturer’s part number;
c. description;
d. quantity/unit of issue;
e. date of manufacture;
f. contract number

2. These markings must be applied and positioned in accordance with Canadian Forces Packaging Specification D-LM-008-002/SF-001.

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

The Contractor must prepare the goods 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.

7.15 SACC Manual Clauses

A9131C (2020-11-19) Controlled Goods Program
B4061C (2008-05-12) North Atlantic Treaty Organization Codification – Data Requirements
B7500C (2006-06-16) Excess Goods
C2000C (2007-11-30) Taxes - Foreign-based Contractor
C2608C (2020-07-01) Canadian Customs Documentation
C2610C (2007-11-30) Custom Duties – Department of National Defence - Importer
C2800C (2013-01-28) Priority Rating
C2801C (2017-08-17) Priority Rating - Canadian Contractors
D0050C (2007-05-25) End User Certificate
D2001C (2007-11-30) Labelling
D2017C (2008-05-12) Bar Coding – Material Marking
D2025C (2017-08-17) Wood Packaging Materials

D5545C (2019-05-30) ISO 9001:2015- Quality Management Systems (Quality Assurance Code C)
D5604C (2008-12-12) Release Documents (DND) - Foreign-based Contractor
D5605C (2010-01-11) Release Documents (DND) - United States-based Contractor
D5606C (2017-11-28) Release Documents (DND) - Canadian-based Contractor
D6010C (2007-11-30) Palletization
D9002C (2007-11-30) Incomplete Assemblies

7.16 Dispute Resolution

(a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.

(b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.

(c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.

(d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".

ANNEX “A” STATEMENT OF WORK

(SEE ATTACHED)

ANNEX “B”, BASIS OF PAYMENT

(SEE ATTACHED)

ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts to be paid by any of the following Electronic Payment Instrument(s):

( ) Direct Deposit (Domestic and International);

( ) Electronic Data Interchange (EDI);

( ) Wire Transfer (International Only);

ANNEX "D" to PART 5 OF THE BID SOLICITATION

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 any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit Employment and Social Development Canada (ESDC) – 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 permanent full-time and/or permanent part-time employees.

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 ESDC-Labour.

OR

( ) A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-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 ESDC-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)

ANNEX "E" DND 626 TASK AUTHORIZATION FORM

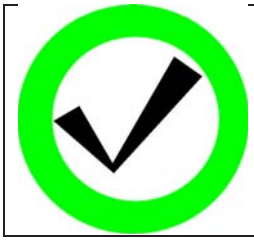
(SEE ATTACHED)

National Défense
Defence nationale

ANNEX A

Statement of Work (SOW)

For the Acquisition and Support of Integrated Soldier System Assaulter (ISS-A) Radio W8476-226484



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

TABLE OF CONTENTS

LIST OF APPENDICES:

1 SCOPE

1.1 Purpose

1.1.1 The purpose of this Statement of Work (SOW) is to specify the requirements for the acquisition and support of the Integrated Soldier System Assaulter (ISS-A) radio with associated cables. The ISS-A radio is the next generation radio for dismounted soldiers in an Assaulter role. The ISS-A radios are being procured as a replacement for the current fleet of Harris RF-7800S radios.

1.2 Background

1.2.1 The Integrated Soldier System Suite (ISS-S) is a system in use by the Canadian Armed Forces (CAF) that supports the mission of the dismounted soldier by providing situational awareness and better command execution. The basic configuration is composed of a Tactical User Interface (TUI), a radio, a network hub and a central battery. The ISS-A radio is an important component to the ISS-S as it provides both voice and data communication between soldiers and it automatically generates personal location information (PLI). The CAF is interested in upgrading the existing ISS-A radio in order to benefit from the latest technological advancements available today. In addition, the current assaulter radio (RF-7800S) is approaching end-of-life for support and cannot communicate with other radio models.

1.3 Intended Use

1.3.1 The ISS-A Radio will be used as part of the ISS-S. As it will be worn by dismounted soldiers, the ISS-A Radio will be exposed to adverse weather conditions. It will also be subject to various shocks induced from normal use.

1.4 List of Acronyms and Abbreviations

1.4.1 Table 1. List of Acronyms

Abbreviation	Description
ABCANZ	American, British, Canadian, Australian, and New Zealand
AWR	Additional Work Request
BIT	Built In Test
CAF	Canadian Armed Forces
COTS	Commercial-Off-The-Shelf
DND	Department of National Defence
EMCON	Emission Control
IAW	In Accordance With
ICD	Interface Control Document
ISS	Integrated Soldier System
ISS-A	Integrated Soldier System Assaulter
ISS-S	Integrated Soldier System Suite
NATO	North Atlantic Treaty Organization

Abbreviation	Description
NCAGE	NATO Commercial and Government Entity
NSN	NATO Stock Number
SMBus	System Management Bus
SOW	Statement of Work
TA	Technical Authority
TSM	Tactical, Secure Mobile Ad-Hoc Network
TSM-X	TSM-X denotes the TSM Waveform patented by Trellisware. The latest version is called TSM release 6.1.
TUI	Tactical User Interface
USB	Universal Serial Bus

1.5 Terminology

1.5.1 Table 2. Definitions

Term	Definition
Assaulter	A dismounted soldier in the battlefield.
ISS-A Radio	Next generation radio for soldiers in an assaulter role.
Built In Test	An integral capability of a device that provides an on-board test capability to detect, to diagnose, or isolate system failures.
Catastrophic Mishap Severity	Could result in death, permanent total disability, or irreversible environmental damage that violates law or regulation
Compatible	Able to be used together without causing malfunctions or a degradation of performance. Can be used with or without a specific piece of equipment (e.g.: antenna or cable), but without any software or hardware modification to the radio.
Critical Mishap Severity	Could result in permanent partial disability, injuries or occupational illness that may result in hospitalization, or reversible environmental damage causing a violation of law or regulation
Defect	A change in materiel characteristics, a Degradation of Performance, a Malfunction, or Physical Damage
Degradation of Performance	A situation where one or more requirements of this Statement of Work is not met.
Hub	A power and data distribution device. Contains multiple ports for connectivity to other devices.
Interface Control Document	Document that describes the interface(s) to a system or subsystem. It may describe the inputs and outputs of a single system or the interface between two systems or subsystems.

Term	Definition
Integrated Soldier System	A system that aims to improve command execution, target acquisition and situational awareness to soldiers on the battlefield. The basic configuration of the system consists of a radio, a TUI, a Hub, and a battery.
Integrated Soldier System Suite	All equipment that the soldier wears and carries, including the software, electronic equipment, cables, vest and pouches, batteries and any other components.
INVISIO® V60 Tactical Headset System	Headset push-to-talk adapter used to connect the headset to the radio audio port.
Land Warrior Batteries	Batteries meeting all requirements of one or more of the following Military Performance Specification: MIL-PRF-32271/15, MIL-PRF-32383/1, and MIL-PRF-32383/2.
Malfunction	A major failure in one or more of the following functions to all connected devices: a) Power distribution; b) Voice; and c) Data distribution.
Non-Operational State	An ISS-A Radio which has a TUI connected. The radio is powered down and is not distributing voice or data to all connected devices.
Operational State	An ISS-A Radio which has a battery and a TUI connected. The radio is powered by the battery, and distributes voice and data to all connected devices with no malfunction or degradation of performance.
Physical Damage	Harm caused to something which results in a degradation of performance.
Port	A connection point on an electronic device where another piece of equipment can be attached, often using a cable. In addition, antennas have dedicated ports.
Power port	Connection point on an electronic device where a SMBus compatible smart battery or a simple DC voltage input can be attached.
Radio port	Connection point on an electronic device where a Radio can be attached.
Radio Power Adaptor	Device that connects to a radio. Allows to power a radio through the centralized dismounted soldier system power source instead of the radio battery and can also trickle charge a radio battery through the centralized dismounted soldier system power source.
Tactical User Interface	A device comprising of an operating software, a touchscreen display, and computer processing circuitry.

APPLICABLE DOCUMENTS

2.1 References

2.1.1 The documents listed in this Section form part of the SOW. Unless otherwise specified, the issue or amendment of documents effective for this contract must be those in effect on the date of contract award.

2.1.2 DND Specifications, Standards and Publications

Reference Number	Promulgation Date	Reference Title
C-01-100-100/AG-005	2019-06-30	Acceptance of Commercial and Foreign Government Publications as Adopted Publications
D-02-002-001/SG-001	2003-04-01	Identification Marking of Canadian Military Property
D-01-400-002/SF-000	2018-07-31	Canadian Forces Specifications – Levels of Engineering Drawings

2.1.3 Other Standards and Publications

Reference Number	Promulgation Date	Reference Title
MIL-PRF-32271/15	2010-06-09	Performance Specification Sheet: Battery, Non-Rechargeable, Lithium, available at everyspec.com/MIL-STD
MIL-PRF-32383/1	2010-06-11	Performance Specification Sheet: Battery, Rechargeable, Lithium, available at everyspec.com/MIL-STD
MIL-PRF-32383/2	2010-06-11	Performance Specification Sheet: Battery, Rechargeable, Lithium, available at everyspec.com/MIL-STD
MIL-STD-461G	2015-12-11	Interface Standard: Requirements for the control of electromagnetic interference characteristics of subsystems and equipment, available at everyspec.com/MIL-STD
MIL-STD-464C	2010-12-01	Interface Standard: Electromagnetic environmental effects requirements for systems, available at everyspec.com/MIL-STD
MIL-STD-810H	2019-01-31	Test Method Standard: Environmental Engineering Considerations and Laboratory Tests, available at everyspec.com/MIL-STD
MIL-STD-1472G	2019-01-17	Design Criteria Standard: Human Engineering, available at everyspec.com/MIL-STD

Reference Number	Promulgation Date	Reference Title
MIL-STD-1686C	1995-10-25	Standard Practice: Electrostatic discharge control program for protection of electrical and electronic parts, assemblies and equipment (excluding electrically initiated explosive devices), available at everyspec.com/MIL-STD
NWPAN-WP-01112013	2017-10-20	Nett Warrior Interconnect Architecture White Paper, version 6, available at https://apps.dtic.mil/dtic/tr/fulltext/u2/1011122.pdf
SMBus	2018-04-19	System Management Bus (SMBus) Specification, available at smbus.org
USB 2.0	2000-04-27	Universal Serial Bus (USB) Revision 2.0 Specifications, available at www.usb.org
N/A	July 2017	Travel Directive, National Joint Council, available at www.njc-cnm.gc.ca/directive/d10/v238/en

2.2 Order of Precedence

2.2.1 In the event of a conflict between the content in this SOW and the referenced documents, the content of this SOW must take precedence.

3.0 REQUIREMENTS

3.1 Scope of Work

3.1.1 The Contractor must supply ISS-A Radios, Antennas, Programming Software and Cables that meet all the requirements identified in Appendices 1 and 2. Quantity for each item is specified in section 9.

3.1.2 The Contractor must organize a Kick-off meeting.

3.1.3 The Contractor must provide Interface Control Documents for the ISS-A Radios and Cables.

3.1.4 The Contractor must provide Technical Data for the ISS-A Radios and Cables.

3.1.5 The Contractor must provide and install Identification Plates.

3.1.6 The Contractor must provide User and Maintenance Manuals for the ISS-A Radio, including radio operation, first line maintenance and programming instructions for supported waveforms.

3.1.7 The Contractor must provide support in accordance with (IAW) section 5

3.1.8 The contractor must provide Technical Investigation and Engineering (TIES) services as applicable IAW section 6.

4.0 MEETINGS

4.1 Kick-off Meeting

4.1.1 The Kick-off meeting must take place within twenty-eight (28) working days after contract award (or mutually agreed upon dates). Canada and their designated representatives will participate in the Kick-off meeting. The purpose of this meeting is to review the specific contract documents.

4.2 Meeting Minutes

4.2.1 The meeting minutes must be recorded and prepared by the Contractor.

4.2.2 The meeting minutes must provide a summary of the discussion and key decision points established during the meeting.

4.2.3 Signature blocks for both Contractor and Canada responsible representatives are required on the Kick-off meeting minutes.

4.2.4 The meeting minutes must be provided to Canada no later than five (5) working days after the Kick-off meeting.

5.0 INTEGRATED LOGISTIC SUPPORT

5.1 Interface Control Documents

5.1.1 The ICDs for the ISS-A Radio, Cables, and Accessories must include the following information:

a) Connector part number and manufacturer;
b) Connector Pin-out and Pin description;
c) Cable wiring diagrams; and
d) Connector technical drawings.

5.1.2 There is a requirement to integrate the Assaulter Radio with the Integrated Soldier System Suite, after contract award. It is therefore mandatory to work with ISSP third party Contractors such as Glenair Inc, Rheinmetall Canada Inc. etc. The Contractor must provide the hardware and software Interface Control Documents, in sufficient detail, to the DND TA and to Canada's Soldier System Contractor(s) for integration purposes only, including, but not limited to, the data nature and type available via interface. The Interface Control Documents must be provided to the DND TA no later than 30 days after contract award (or mutually agreed upon dates).

5.2 Technical Data

5.2.1 Technical Data for the ISS-A Radios and Cables must be:

a) Engineering drawing (minimum level 2 - in accordance with D-01-400-002/SF-000), or
b) Industrial specification data / information sheets from the true (Design Control) manufacturer.

5.2.2 The Technical Data must clearly provide the following information:

a) Item Name;
b) The manufacturer's unique part number;
c) The Design Control Authority NCAGE code, or their full name and address;
d) Dimensions and tolerances;
e) Materials;
f) Protective coating (if applicable) and surface color and finish;
g) Performance data, including the environmental and operating conditions under which the item must perform;
h) Electrical characteristics; and
i) Special features which contributed to the uniqueness of the item.

5.2.3 Canada will provide the Contractor with a list of applicable NSNs within sixty (60) working days after the reception and acceptance of the Technical Data Package.

5.2.4 Once received from Canada, the Contractor must update all applicable documentation with the NSN identifier.

5.3 Equipment Identification Plate Data and Markings

5.3.1 The Contractor must provide identification plates for the ISS-A Radio, Cables, and all Accessories in accordance with Canadian Forces Standard D-02-002-001/SG-001: Identification Marking of Canadian Military Property.

5.3.2 The identification plates must be affixed to the ISS-A Radio and all associated cables.

5.3.3 The identification plates must be sent to Canada for approval prior to their production.

5.3.4 The Contractor must allow ten (10) working days for the review of the identification plates.

5.4 User and Maintenance Manuals

5.4.1 User and Maintenance Manuals must be in accordance with Canadian Forces Standard C-01-100-100/AG-006 Specification Acceptance of Commercial and Foreign Government Publications as Adopted Publications.

5.4.2 User and Maintenance Manuals must be in English and in French.

5.4.3 User and Maintenance Manuals must be in searchable PDF format and be delivered to the Technical Authority.

6.0 ADDITIONAL WORK REQUESTS (DND 626)

6.1 Additional Work

6.1.1 There may be a requirement for additional work to be performed, including TIES tasks to address new dismounted soldier requirements. This requirement encompasses work that is over and above the current Contract requirements, but is within the scope of the work. Work to be performed could include modifications of equipment provided, test studies or even radio repair. The manner in which this work will be accomplished is via an Additional Work Request (AWR). An AWR will be implemented in accordance with the Contract Articles of Agreement, using the form DND 626 Task Authorization. Pricing will be determined using the rates and mark-ups contained in the Basis of Payment at Annex B.

6.2 Travel and Living Expenses

6.2.1 Where the satisfactory performance of approved Additional Work Requests Entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:

a) The provisions in the directive referring to "travelers", rather than those referring to "employees"; and
b) The meal, private vehicle and incidental expenses provided in Appendices B, C and D.

7.0 QUALITY ASSURANCE

7.1.1 Contractor must have one or more of the following certifications:

a) ISO 9001; or
b) AS9100D

8.0 ACCEPTANCE PROCESS CRITERIA

8.1.1 The firm quantity of ISS-A Radios, Cables, Technical Data, and the Interface Control Documents must be delivered to Canada for integration and testing.

8.1.2 The ISS-A radio must comply with the technical requirements found in Appendix 1 of this Annex.

9.0 DELIVERABLES

9.1 Firm Quantities

9.1.1 List of deliverables

Item Number	Item Description	Firm Quantity	Delivery Date
1	ISS-A Radio. This includes the power adapter, GPS antenna, wide-band RF antenna (225-450 and 1250-2600 MHz), programming software and TSM license.	1250	No later than thirty (30) weeks after the Kick-off meeting.
2	Audio cable (for INVISIO® V60 Tactical Headset System)	1250	No later than thirty (30) weeks after the Kick-off meeting.
3	Data Cable	1250	No later than thirty (30) weeks after the Kick-off meeting.
4	Programming cable	125	No later than thirty (30) weeks after the Kick-off meeting.

9.2 Option Quantities

9.2.1 Options are not firm orders. Canada may or may not exercise one or all items within the table at clause 9.2.2. The Optional Requirements do not in any way constitute a commitment on behalf of Canada. Canada may exercise the quantities at any time throughout the exercised Optional years. Once the maximum quantities have been ordered, there will only be services via AWR's/DND 626's.

9.2.2 List of deliverables (option quantities)

Item Number	Item Description	Option Quantity (up to)	Delivery Date
1	ISS-A Radio. This includes the power adapter, GPS antenna, wide-band RF antenna (225-450 and 1250-2600 MHz), and programming software.	1250	No later than thirty (30) weeks after the Kick-off meeting.
2	Audio cable (for INVISIO® V60 Tactical Headset System)	1250	No later than thirty (30) weeks after the Kick-off meeting.
3	Data Cable	1250	No later than thirty (30) weeks after the Kick-off meeting.
4	Programming cable	125	No later than thirty (30) weeks after the Kick-off meeting.

APPENDIX 1 – TECHNICAL REQUIREMENT SPECIFICATION – ISS-A RADIO

1.0 GENERAL REQUIREMENTS

1.1 Non-Developmental Item

1.1.1 ISS-A Radio must be:

a) Of proven (tested) design;
b) In current production;
c) Be in-use by a NATO or ABCANZ mbr armed forces; and
d) Provided with Identification Plates and Linear Barcode Symbologies.

2.0 PHYSICAL REQUIREMENTS

2.1 Size

2.1.1 Dimensions of ISS-A Radio (minus antennas and power adapter) must not exceed the following measurements:

a) Length: 140mm;
b) Width: 80mm; and
c) Thickness: 50mm.

2.2 Weight

2.2.1 The weight of the ISS-A Radio (minus antennas and power adapter) must not exceed 600g.

2.3 Finish and Color

2.3.1 The ISS-A Radio must have a:

a) Non-reflective flat green finish;
b) Non-reflective flat black finish;
c) Non-reflective flat brown finish; or
d) Non-reflective flat gray finish.

3.0 INTERFACE REQUIREMENTS

3.1 Connectors

3.1.1 All ISS-A Radio data/power ports must be equipped with connectors that mate with the connectors specified in Nett Warrior Interconnect Architecture White Paper (NWPAN-WP-01112013) version 6, Table IV.

3.1.2 The ISS-A Radio audio port must be equipped with connectors that mates with the INVISIO® V60 Tactical Headset System connector.

3.1.3 The ISS-A Radio must provide power to the INVISIO® V60 Tactical Headset System.

3.2 Ports

3.2.1 General

3.2.1.1 The ISS-A radio data port must be compliant with Universal Serial Bus (USB) Revision 2.0 Specifications or Ethernet.

3.2.1.2 The ISS-A radio power and data ports must be equipped with connectors that mates with the connectors specified in Nett Warrior Interconnect Architecture White Paper (NWPAN-WP-01112013) version 6, Table IV.

3.2.1.3 The ISS-A Radio must have a RF antenna port.

3.2.1.4 The ISS-A Radio must have a GPS antenna port.

3.2.2 Power Port

3.2.2.1 The power port must accept the input voltage range of 10 to 16.8 VDC.

3.2.2.2 The power and ground connections on the ISS-A Radio ports must be rated for no less than 5 Amps.

4.0 FUNCTIONAL REQUIREMENTS

4.1 Compatibility

4.1.1 ISS-A Radio must be interoperable (voice and data) with other radios using TSM waveform (release 6.1 or later);

4.1.2 The ISS-A Radio must have a maximum data transfer rate of 16 MBps (1-hop);

4.1.3 The ISS-A Radio must have a range of at least 500 meters (1-hop) over all frequency ranges;

4.1.4 The ISS-A Radio must have the capability to relay up to 8 hops between other ISS-A radios (voice and data);

4.1.5 The ISS-A Radio must be interoperable (voice and data) with other ISS-A radios when in a GPS-denied environment, such as inside buildings or vehicles with no clear view of GPS satellites;

4.1.6 The ISS-A Radio must be interoperable (voice and data) with the AN/PRC-163 Leader Radio using the TSM-X waveform;

4.1.7 The ISS-A Radio must be capable of using commercial GPS;

4.1.8 The ISS-A Radio must support up to 200x users on the same network;

4.1.9 The ISS-A radio must include network planning and monitoring software for use on a Windows 10 computer

4.1.10 The ISS-A Radio must be capable of being zeroized by the local user;

4.1.11 The ISS-A Radio must be capable of being zeroized remotely;

4.1.12 The ISS-A Radio must be capable of using the TSM waveform (release 6.1 or later) in the frequency range of 225 to 450 MHz (UHF Band), while meeting all requirements specified in the document herein;

4.1.13 The ISS-A Radio must be capable of using the TSM waveform (release 6.1 or later) in the frequency range of 1250 to 2600 MHz (S Band), while meeting all requirements specified in the document herein;

4.1.14 ISS-A Radio bandwidth must be configurable in increments from 1.2 MHz to 40 MHz.

4.1.15 The ISS-A radio must be a type 3 (commercial AES 256) crypto device.

4.2 Data Exchange

4.2.1 The ISS-A radio must be configurable and operate over a minimum of USB 2.0 or Ethernet.

4.2.2 The ISS-A Radio must be compatible with a EUD running the ATAK software application.

5.0 SUSTAINABILITY REQUIREMENTS

5.1 Reliability

5.1.1 The ISS-A Radio must have a Mean Time Between Failures (MTBF) of not less than 5,000 hours.

5.2 Power

5.2.1 The ISS-A Radio must draw no more than 5 Amps (peak power) when connected to a single power source with no other devices connected.

5.2.2 The ISS-A Radio must be compatible with rechargeable Land Warrior Batteries.

5.2.3 The ISS-A Radio must be compatible with non-rechargeable Land Warrior Batteries

5.3 Built In Test (BIT)

5.3.1 The ISS-A Radio must perform a BIT during initial system power up.

5.3.2 Failure of the BIT must be communicated to the user.

5.4 Recovery from Electrical Faults

5.4.1 The ISS-A Radio must recover automatically from an over-voltage when the fault is removed.

5.4.2 The ISS-A Radio must recover automatically from an over-current when the fault is removed.

6.0 ENVIRONMENT CONDITIONS

6.1 General

6.1.1 The ISS-A Radio must meet all performance requirements of this Technical Requirement Specification without incurring one or more defects during and after exposure to any combination of the meteorological and induced climatic conditions described in this section: Physical Damage, Malfunction, and Degradation of Performance.

6.2 Low Pressure (Altitude)

6.2.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all altitudes from sea level to 4572 meters.

6.3 High Temperature - Operation

6.3.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all high temperature environments associated with the A1 (+49ºC max) climatic regions as described in MIL-STD-810H.

6.4 High Temperature - Storage

6.4.1 The ISS-A Radio must be stored without incurring one or more defects during and after being exposed to all high temperature environments associated with the and A1 climatic regions as described in MIL-STD-810H.

6.5 Low Temperature - Operation

6.5.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all low temperature environments associated with a C1 climatic region as described in MIL-STD-810.

For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30ºC.

6.6 Low Temperature - Storage

6.6.1 The ISS-A Radio must be stored without incurring one or more defects during and after being exposed to all low temperature environments associated with a C1 climatic region as described in MIL-STD-810.

For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30ºC.

6.7 Temperature Shock

6.7.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to conditions of rapid changes in ambient air temperature as encountered during movements between in-door environments and out-door environments at either high temperature (+49ºC) and low temperature (-30ºC) extremes, as described in MIL-STD-810H.

For this requirement, the ISS-A Radio did not require any physical modifications or preparations in advance.

6.8 Contamination by Fluids

6.8.1 The The ISS-A Radio must operate without incurring one or more defects during and after being exposed with the fluids listed in Appendix 3 – Fluids List.

6.9 Solar Radiation (Sunshine)

6.9.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed in all high solar radiation environments associated with A1 climatic regions as described in MIL-STD-810H.

6.10 Rain

6.10.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to conditions of rainfall exposure of a minimum 1.7 mm/min as described in MIL-STD-810H.

6.11 Humidity

6.11.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all high humidity environments associated with B1, B2 and B3 climatic regions as described in MIL-STD-810H.

6.12 Fungus

6.12.1 The ISS-A Radio must not contain materials that support fungus growth.

6.13 Salt fog

6.13.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to a salt fog atmosphere.

6.14 Sand and Dust

6.14.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to a blowing sand and dust environment.

6.15 Explosive Atmosphere

6.15.1 The ISS-A Radio must not constitute a hazard in an explosive environment.

6.16 Water Immersion

6.16.1 During and after a water immersion of one (1) meter depth for a minimum of 30 minutes, the ISS-A Radio must:

a) not allow water or moisture ingress; and
b) operate without incurring one or more defects.

6.17 Vibration

6.17.1 The ISS-A Radio must operate without incurring one or more defects after and during being exposed to vibrations of military ground vehicles.

6.18 Functional Shock

6.18.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to shocks associated with dismounted soldier operations.

6.19 Transit Drop

6.19.1 The ISS-A Radio must operate without incurring one or more defects during and after experiencing 1.22m drops.

6.20 Electric field, radiated susceptibility

6.20.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to an electrical field of 50V/m at frequencies of 2MHz to 18GHz.

6.21 Emission Control (EMCON)

6.21.1 The ISS-A Radio must meet the EMCON requirement from section 5.14 of MIL-STD-464C. Frequencies tested are outside of 225-2600MHz frequency range.

6.21.2 The ISS-A Radio must be configurable for EMCOM 1 (electronic silence) and EMCOM 2 (radio silence).

6.22 Electrostatic Discharge

6.22.1 The ISS-A Radio must operate without incurring one or more defects during and after being exposed to electrostatic discharges.

7.0 HEALTH AND SAFETY

7.1 General

7.1.1 The ISS-A Radio must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.

7.1.2 The ISS-A Radio must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.

7.2 Mechanical Safety

7.2.1 The ISS-A Radio must bear no raw, sharp, or rough edges on any parts.

7.3 Thermal Contact Hazard

7.3.1 The maximum allowable surface contact temperatures for the The ISS-A Radio must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.

APPENDIX 2: TECHNICAL REQUIREMENT SPECIFICATION – ISS-A RADIO CABLES

1.0 PHYSICAL REQUIREMENTS

1.1 Size

1.1.1 Length of ISS-A Radio cables are TBD, but must not exceed the values below:

Cable Name	Length (mm)
Audio cable (for INVISIO® V60 Tactical Headset System)	800 +/- 50
Data cable	1350 +/- 50
Programming cable	1900 +/- 100

1.2 Finish and Color

1.2.1 All ISS-A Radio cables must have the same finish and color as stated in ISS-A Radio para 2.3.1.

2.0 INTERFACE REQUIREMENTS

2.1 Connectors

2.1.1 All cable connectors:

a) must mate with Assaulter Hub connector on one end; or

b) must mate with the INVISIO® V60 Tactical Headset System audio connector on one end.

3.0 ENVIRONMENT CONDITIONS

3.1 General

3.1.1 All ISS-A Radio cables and accessories must meet all performance requirements in this technical requirement specification without incurring physical damage and without degradation of performance, during and after exposure to any combination of the meteorological and induced climatic conditions described in the technical requirement specification of the ISS-A Radio.

4.0 HEALTH AND SAFETY

4.1 General

4.1.1 All ISS-A Radio cables and accessories must not present fire, environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.

4.1.2 All ISS-A Radio cables and accessories must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.

4.2 Mechanical Safety

4.2.1 All ISS-A Radio cables and accessories must bear no raw, sharp, or rough edges on any parts.

4.3 Thermal Hazard

4.3.1 The maximum allowable surface contact temperatures for all ISS-A Radio cables and accessories must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.

APPENDIX 3: FLUID LIST

1.0 LIST OF FLUIDS

1.1.1 List of fluids below:

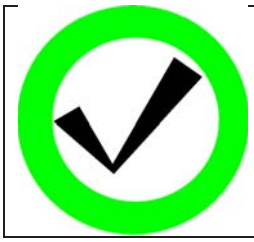
a) Insect repellent (NSN 6840-01-284-3982, Crème, approx 32% Deet);
b) Degreasing Solvent (MIL-PRF-680B);
c) Weapon cleaning solvents (MIL-PRF-372D);
d) Lubricating oil, general purpose (MIL-PRF-32033);
e) Camouflage cream;
f) Reactive Skin Decontaminant Lotion (RSDL);
g) Salt water (real or simulated);
h) Unleaded gasoline (CAN/CGSB 3.5);
i) Hydraulic fluid (Mineral oil / petroleum-based NATO H-520/NATO H-515);
j) Kerosene (Commercial fuel CAN/CGSB 3.3);
k) Automatic Transmission fluid (Dexron III or Allison TES 228);
l) Lubricant, semi-fluid, automatic weapons (MIL-L-46000);
m) Lubricating oil, weapons, low temperature (MIL-PRF-14107);
n) Anti-freeze (A-A-52624A Type I ethylene glycol-based and Type II propylene glycol-based);
o) Engine oil (MIL-PRF-2104H, 15W40); and
p) Diesel fuel (On-road CAN/CGSB 3.517).

National Défense
Defence nationale

APPENDIX 4 to Annex A

Technical Evaluation Matrix

For the Acquisition and Support of Integrated Soldier System Assaulter (ISS-A) Radio W8476-226484



NOTICE

This documentation has been reviewed by the technical authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

1 GENERAL

1.1 General Instructions

1.1.1 The Bidder must fill out the Bidder's Compliance and the Bidder Response columns of Appendix 4 to Annex A, Technical Evaluation Matrix.

1.2 List of Acronyms and Abbreviations

1.2.1 Refer to the List of Acronyms and Abbreviations Section in Annex A - Statement of Work.

1.3 Terminology

1.3.1 Refer to the Terminology Section in Annex A - Statement of Work.

1.4 Applicable Documents

1.4.1 Refer to the Applicable Documents Section in Annex A - Statement of Work.

2 MANDATORY REQUIREMENTS

2.1 General

2.1.1 Bidder technical responses must include the information required in the Bidder's Response column for each mandatory requirement according to the method identified in the "Compliance Method" column.

2.2 Compliance Methods

2.2.1 Analysis Report

2.2.1.1 A document that provides evidence that the stated requirements are met. Support for the validation of the Analysis Report's findings must include one or more of the following:

a) mathematical models;
b) simulations;
c) algorithms;
d) calculations;
e) charts;
f) graphs;
g) drawings;
h) photos;
i) dimensions;
j) representative data,
k) other scientific principles and procedures.

2.2.2 Certificate of Compliance

2.2.2.1 A document that certifies that the product or entity meets a specific standard. The certificate must:

a) be issued by a qualified Third-Party Testing Facility or Agency; and
b) contain the following information:

i) Name of the Third-Party Testing Facility or Agency; and
ii) Certificate number; and
iii) Date of issuance; and
iv) Name of the entity or the product; and
v) Applicable standards, or sections, or methods;

2.2.3 Explanation

A description which

2.2.3.1

a) contains sufficient detail that demonstrates the requirement is met;
b) is supported by one or more of the following justifications:

i) drawings;
ii) dimensions;
iii) calculations;
iv) graphs;
v) photos;
vi) data sheets;
vii) user manuals;
viii) description of the product.

2.2.4 Compliance Statement

For mandatory requirements, a Compliance Statement is required when Bidders are required to declare compliance with or have conducted testing in accordance with a specific standard.

Table 1: Bid Evaluation Matrix – ISS-A Radio

Req. W8476-226484	Requirement Statement	Method of Compliance	Additional Instructions to Bidder and Evaluation Criteria
SOW 8.0	**QUALITY ASSURANCE**		
SOW 8.1.1	Contractor must have one or more of the following certifications: a) ISO 9001; or b) AS9100D	Certificate of Compliance	The will be deemed compliant if the certificate demonstrates that the requirement is met.
ISS-A Radio Specs 1.0	**GENERAL REQUIREMENTS**		
ISS-A Radio Specs 1.1	**Non-Developmental Item**		
ISS-A Radio Specs 1.1.1	ISS-A Radio must be: a) Of proven (tested) design; and b) In current production; and c) Be in-use by an ABCANZ member armed forces. d) Provided with Identification Plates and Linear Barcode Symbologies.	Explanation	Bidder must provide the following information in their explanation: a) Model number of the product; b) Quantity of the proposed equipment sold to ABCANZ armed forces members; c) Confirmation that the product is currently in production; and d) Identification Plates and Linear Barcode Symbologies. This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 2.0	**PHYSICAL REQUIREMENTS**		
ISS-A Radio Specs 2.1	**Size**		

ISS-A Radio Specs 2.1.1	Dimensions of ISS-A Radio must not exceed the following measurements: a) Length:140mm; b) Width: 80mm; and c) Thickness: 50mm	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 2.2	**Weight**		
ISS-A Radio Specs 2.2.1	The weight of the ISS-A Radio (minus antennas and power adapter) must not exceed 600g.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 2.3	**Finish and Color**		
ISS-A Radio Specs 2.3.1	The ISS-A Radio must have a: a) Non-reflective flat green finish; or b) Non-reflective flat black finish; or c) Non-reflective flat brown finish; or d) Non-reflective flat gray finish.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.0	**INTERFACE REQUIREMENTS**		
ISS-A Radio Specs 3.1	**Connectors**		
ISS-A Radio Specs 3.1.1	All ISS-A Radio ports must be equipped with connectors that mates with the connectors specified in Nett Warrior Interconnect Architecture White Paper (NWPAN-WP-01112013) version 6, Table IV.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.1.2	The ISS-A audio port must be equipped with connectors that mates with the INVISIO® V60 Tactical Headset System.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS-A Radio Specs 3.1.3	The ISS-A Radio must provide power to the INVISIO® V60 Tactical Headset System.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.2	**Ports**		
ISS-A Radio Specs 3.2.1	**General**		
ISS-A Radio Specs 3.2.1.1	The ISS-A radio data port must be compliant with Universal Serial Bus (USB) Revision 2.0 Specifications or ethernet.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.2.1.2	The ISS-A radio power and data ports must be equipped with connectors that mates with the connectors specified in Nett Warrior Interconnect Architecture White Paper (NWPAN-WP-01112013) version 6, Table IV.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.2.1.3	The ISS-A Radio must have a RF antenna port.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.2.1.4	The ISS-A Radio must have a commercial GPS antenna port.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.2.2	**Power Port**		
ISS-A Radio Specs 3.2.2.1	The power port must accept the input voltage range of 10 to 16.8 VDC.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 3.2.2.2	The power and ground connections on the ISS-A Radio ports must be rated for no less than 5 Amps.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio 4.0	**FUNCTIONAL REQUIREMENTS**		
ISS-A Radio Specs 4.1	**Compatibility**		

ISS-A Radio Specs 4.1.1	The ISS-A Radio must be interoperable (voice and data) with other radios using TSM waveform (release 6.1 or later).	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.2	The ISS-A Radio must have a maximum data transfer rate of 16 MBps (1-hop).	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.3	The ISS-A Radio must have a range of at least 500 meters (1-hop) over all frequency ranges.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.4	The ISS-A Radio must have the capability to relay up to 8 hops between other ISS-A radios (voice and data).	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.5	The ISS-A Radio must be interoperable (voice and data) with other ISS-A radios when in a GPS-denied environment, such as inside buildings or vehicles with no clear view of GPS satellites.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.6	The ISS-A Radio must be interoperable (voice and data) with the AN/PRC-163 Leader Radio using the TSM-X waveform.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS-A Radio Specs 4.1.7	The ISS-A Radio must be capable of using commercial GPS.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.8	The ISS-A Radio must support up to 200x users on the same network	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.9	The ISS-A radio must include network planning and monitoring software for use on a Windows 10 computer.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.10	The ISS-A Radio must be capable of being zeroized by the local user.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.11	The ISS-A Radio must be capable of being zeroized remotely.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.12	The ISS-A Radio must be capable of using the TSM waveform (release 6.1 or later) in the frequency range of 225 to 450 MHz (UHF Band), while meeting all requirements specified in the document herein.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS-A Radio Specs 4.1.13	The ISS-A Radio must be capable of using the TSM waveform (release 6.1 or later) in the frequency range of 1250 to 2600 MHz (S Band), while meeting all requirements specified in the document herein.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.14	The ISS-A Radio bandwidth must be configurable in increments from 1.2 MHz to 40 MHz..	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.1.15	The ISS-A radio must be a type 3 (commercial AES 256) crypto device.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio 4.2	**Data Exchange**		
ISS-A Radio Specs 4.2.1	The ISS-A radio must be configurable and operate over a minimum of USB 2.0 or Ethernet.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 4.2.2	ISS-A Radio must be compatible with a EUD running ATAK software application.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio 5.0	**Sustainability Requirements**		
ISS-A Radio Specs 5.1	**Reliability**		
ISS-A Radio Specs 5.1.1	The ISS-A Radio must have a Mean Time Between Failures (MTBF) of not less than 5,000 hours.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.2	**Power**		
ISS-A Radio Specs 5.2.1	The ISS-A Radio must draw no more than 5 Amps (peak power) when connected to a single power source with no other devices connected.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS-A Radio Specs 5.2.2	The ISS-A Radio must be compatible with rechargeable Land Warrior Batteries	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.2.3	The ISS-A Radio must be compatible with non-rechargeable Land Warrior Batteries	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.3	**Built In Test (BIT)**		
ISS-A Radio Specs 5.3.1	The ISS-A Radio must perform a BIT during initial system power up.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.3.2	Failure of the BIT must be communicated to the user.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.4	**Recovery from Electrical Faults**		
ISS-A Radio Specs 5.4.1	The ISS-A Radio must recover automatically from an over-voltage when the fault is removed.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.4.2	The ISS-A Radio must recover automatically from an over-current when the fault is removed.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 5.5	**Interface Control Documents**		
ISS-A Radio Specs 5.5.1	There is a requirement to integrate the Assaulter Radio with the Integrated Soldier System Suite, after contract award. It is therefore mandatory to work with ISSP third party Contractors such as Glenair Inc, Rheinmetall Canada Inc. etc. The Contractor must provide the hardware and software Interface	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

	Control Documents, in sufficient detail, to the DND TA and to Canada's Soldier System Contractor(s) for integration purposes only, including, but not limited to, the data nature and type available via interface. The Interface Control Documents must be provided to the DND TA no later than 30 days after contract award (or mutually agreed upon dates).		
ISS-A Radio Specs 6.0	**ENVIRONMENT CONDITIONS**		
ISS-A Radio Specs 6.1	**General**		
ISS-A Radio Specs 6.1.1	The ISS-A Radio must meet all performance requirements of this Technical Requirement Specification without incurring one or more of the following defects during and after exposure to any combination of the meteorological and induced climatic conditions described in this section: --physical damage, -Malfunction, and -Degradation of performance.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.

ISS-A Radio Specs 6.2	**Low Pressure (Altitude)**		
ISS-A Radio Specs 6.2.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all altitudes from sea level to 4572 meters.	Explanation	Low Pressure (Altitude) This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 500.6, Procedure II or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.3	**High Temperature – Operation**		
ISS-A Radio Specs 6.3.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all high temperature environments associated with the A1 (+49ºC max) climatic region as described in MIL-STD-810H.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 501.7, Procedure II, or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
ISS-A Radio Specs 6.4	**High Temperature – Storage**		

ISS-A Radio Specs 6.4.1	ISS-A Radio must be stored without incurring one or more defects during and after being exposed to all high temperature environments associated with the A1 climatic region as described in MIL-STD-810H.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) ISS-A Radio was tested IAW MIL-STD-810H, Method 501.7, Procedure I or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.5	**Low Temperature - Operation**		
ISS-A Radio Specs 6.5.1	ISS-A Radio must operate without incurring one or more defects during and after being exposed to all low temperature environments associated with a C1 (-30ºC min) climatic region as described in MIL-STD-810. For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30ºC.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 502.7, Procedure I or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
ISS-A Radio Specs 6.6	**Low Temperature - Storage**		

ISS-A Radio Specs 6.6.1	ISS-A Radio must be stored without incurring one or more defects during and after being exposed to all low temperature environments associated with a C1 (-30ºC min) climatic region as described in MIL-STD-810. For this requirement, the lower boundary of the C1 climatic region will be evaluated at -30ºC.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) ISS-A Radio was tested IAW MIL-STD-810H, Method 502.7, Procedure II or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
ISS-A Radio Specs 6.7	**Temperature Shock**		

ISS-A Radio Specs 6.7.1	ISS-A Radio must operate without incurring one or more defects during and after being exposed to conditions of rapid changes in ambient air temperature as encountered during movements between in-door environments and out-door environments at either high temperature (+49ºC) and low temperature (-30ºC) extremes. For this requirement, the ISS-A Radio does not require any physical modifications or preparations in advance.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 503.7, Procedure I-C or Procedure I-D, or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.8	**Contamination by Fluids**		
ISS-A Radio 6.8.1	ISS-A Radio must operate without incurring one or more defects during and after being exposed with the fluids listed in Appendix 3 – Fluids List.	Explanation or Analysis Report	Explanation: This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) ISS-A Radio was tested with all fluid listed in Appendix 3, and IAW MIL-STD-810H, Method 504.3, using Intermittent Contamination Procedure, or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance. Or Analysis Report: This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.

ISS-A Radio Specs 6.9	**Solar Radiation (Sunshine)**		
ISS-A Radio Specs 6.9.1	ISS-A Radio must operate without incurring one or more defects during and after being exposed in all high solar radiation environments associated with A1 climatic region as described in MIL-STD-810H.	Explanation or Analysis Report	Explanation: This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 505.7 Procedure I, or an equivalent Method and Procedure of MIL-STD-810G; b) A1 climatic conditions were used; and c) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance. Or Analysis Report: This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.

ISS-A Radio Specs 6.10	Rain		
ISS-A Radio Specs 6.10.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to conditions of rainfall exposure of a minimum 1.7 mm/min as described in MIL-STD-810H.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 506.6, Procedure I (Rain and Blowing Rain) or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.11	**Humidity**		
ISS-A Radio Specs 6.11.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to all high humidity environments associated with B1, B2 and B3 climatic regions as described in MIL-STD-810H.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 507.6, Procedure II, (Aggravated) or an equivalent Method and Procedure of MIL-STD-810G; b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.12	**Fungus**		
ISS-A Radio Specs 6.12.1	The ISS-A Radio must not contain materials that support fungus growth.	Explanation or Analysis Report	Explanation: This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested IAW MIL-STD-810H, Method 508.8 or an equivalent Method and Procedure of MIL-STD-810G.; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no display of fungus; iii) no evidence of physical damage; and iv) no malfunction or degradation of performance. Or Analysis Report: The bid will be deemed compliant if the Analysis Report demonstrates that the requirement is met.

ISS-A Radio Specs 6.13	**Salt Fog**		
ISS-A Radio Specs 6.13.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to a salt fog atmosphere.	Explanation or Analysis Report	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 509.7 or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no display of corrosion; iii) no evidence of physical damage; and iv) no malfunction or degradation of performance.

ISS-A Radio Specs 6.14	Sand and Dust		
ISS-A Radio Specs 6.14.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to a blowing sand and dust environment.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: Dust: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H Method 510.7 procedure I or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance. And

			Sand: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H Method 510.7 procedure II or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.15	**Explosive Atmosphere**		
ISS-A Radio Specs 6.15.1	The ISS-A Radio must not be hazardous in an explosive environment	Explanation or Analysis Report	Explanation: This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 511.7 Procedure I or an equivalent Method and Procedure of MIL-STD-810G; b) All devices were disconnected and reconnected to the ISS-A Radio during the test; and c) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) The ISS-A Radio does not cause ignition in a fuel-air explosive atmosphere; iii) no evidence of physical damage; and iv) no malfunction or degradation of performance. Or
			Analysis Report: This technical evaluation criterion will be met if the Analysis Report demonstrates that the requirement is met.

ISS-A Radio Specs 6.16	**Water Immersion**		
ISS-A Radio Specs 6.16.1	During and after a water immersion of one (1) meter depth for a minimum of 30 minutes, the ISS-A Radio must: a) not allow water or moisture ingress; and b) operate without incurring one or more defects.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 512.6 Procedure I (Immersion) or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.17	**Vibration**		
ISS-A Radio Specs 6.17.1	The ISS-A Radio must operate without incurring one or more defects after and during being exposed to vibrations of military ground vehicles.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested IAW any of the following Procedures of Method 514.8 in MIL-STD-810H: a. Procedure I, with any of the following vibration profiles: i) Category 4 - Two-wheeled Trailer; or ii) Category 24 - General Minimum Integrity, vibration profile identified in Figure 514.8E-1. b. Procedure II, using a vibration profile described in Category 5 - Truck/trailer; b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance. Equivalent Methods and Procedures of MIL-STD-810G are also accepted.

ISS-A Radio Specs 6.18	**Functional Shock**		
ISS-A Radio Specs 6.18.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to shocks associated with dismounted soldier operations.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW MIL-STD-810H, Method 516.8 Procedure I (Functional Shock) or an equivalent Method and Procedure of MIL-STD-810G; and b) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.19	**Transit Drop**		
ISS-A Radio Specs 6.19.1	The ISS-A Radio must operate without incurring one or more defects during and after experiencing 1.22m drops.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested IAW MIL-STD-810H, Method 516.8 Procedure IV (Transit Drop) or an equivalent Method and Procedure of MIL-STD-810G; b) The ISS-A Radio was unpacked and in a non-operational state with no device connected; c) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.20	**Electric field, radiated susceptibility**		
ISS-A Radio Specs 6.20.1	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to an electrical field of 50V/m at frequencies of 2MHz to 18GHz.	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) Test IAW MIL-STD-461G, test RS103 or an equivalent Method and Procedure of MIL-STD-461F; b) ISS-A Radio tested in an operational state; c) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.21	**Emission Control (EMCON)**		
ISS-A Radio Specs 6.21.1	The ISS-A Radio must meet the EMCON requirement from section 5.14 of MIL-STD-464C. Frequencies tested are outside of 225-2600 MHz frequency range	Explanation	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) Test IAW MIL-STD-461G, test RE102 or an equivalent Method and Procedure of MIL-STD-461F; b) ISS-A Radio tested in an operational state; c) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.

ISS-A Radio Specs 6.22	**Electrostatic Discharge**		
ISS-A Radio Specs 6.22.2	The ISS-A Radio must operate without incurring one or more defects during and after being exposed to electrostatic discharges.	Test Report	This technical evaluation criterion will be met if the Explanation contains the following Confirmations from the Bidder: a) The ISS-A Radio was tested in an operational state, and IAW any of the following Military Standards: i) MIL STD 1686C, 5.2.2.2, Direct Contact, Operating Equipment, 4000V Hand/Metal HBM test; ii) MIL-STD-461G, test CS118, using a Level 3 Discharge or higher; iii) MIL-STD-464C, section 5.8.4 Electrical and electronic subsystems; b) The ISS-A Radio was tested in an operational state; c) Test Results determined the following for the ISS-A Radio during and after the test: i) no display of any change in materiel characteristics; ii) no evidence of physical damage; and iii) no malfunction or degradation of performance.
ISS-A Radio Specs 7.0	**HEALTH AND SAFETY**		

ISS-A Radio Specs 7.1	**General**		
ISS-A Radio Specs 7.1.1	The ISS-A Radio must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 7.1.2	The ISS-A Radio must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 7.2	**Mechanical Safety**		
ISS-A Radio Specs 7.2.1	The ISS-A Radio must bear no raw, sharp, or rough edges on any parts.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Specs 7.3	**Thermal Contact Hazard**		
ISS-A Radio Specs 7.3.1	The maximum allowable surface contact temperatures for the ISS-A Radio must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Cables Specs 1.0	**PHYSICAL REQUIREMENTS**		
ISS-A Radio Cables Specs 1.1	**Size**		

ISS-A Radio Cables Specs 1.1.1	Length of ISS-A cables are TBD, but must not exceed the values below: Cable Name, Length (mm) Audio cable (for INVISIO® V60 Tactical Headset System), 800 +/- 50 mm Data cable, 1350 +/- 50 mm Programming cable,1900 +/- 100 mm	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met. If the power and data cable are integrated, then separate cables are not required.
ISS-A Radio Cables Specs 1.2	**Finish and Color**		
ISS-A Radio Cables Specs 1.2.1	All ISS-A cables must have the same finish and color as stated in ISS-A Radio specs para 2.3.1.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Cables Specs 2.0	**INTERFACE REQUIREMENTS**		
ISS-A Radio Cables Specs 2.1	**Connectors**		
ISS-A Radio Cables Specs 2.1.1	All cable connectors: a) must mate with Assaulter Hub connectors on one end; or b) must mate with the INVISIO® V60 Tactical Headset System audio connector on one end.	Explanation	This technical evaluation criterion will be met if the Explanation demonstrates that the requirement is met.
ISS-A Radio Cables Specs 3.0	**ENVIRONMENT CONDITIONS**		
ISS-A Radio Cables Specs 3.1	**General**		

ISS-A Radio Cables Specs 3.1.1	All ISS-A Cables and Accessories must meet all performance requirements in this technical requirement specification without incurring physical damage and without degradation of performance, during and after exposure to any combination of the meteorological and induced climatic conditions described in the technical requirement specification of ISS-A Radio.	Explanation	This technical evaluation criterion will be met if the Explanation confirms that the requirement is met.
ISS-A Radio Cables Specs 4.0	**HEALTH AND SAFETY**		
ISS-A Radio Cables Specs 4.1	**General**		
ISS-A Radio Cables Specs 4.1.1	All ISS-A Cables and Accessories must not present environmental, health or system safety hazards of a Catastrophic or Critical mishap severity.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Cables Specs 4.1.2	All ISS-A Cables and Accessories must not present a Catastrophic or Critical hazard to the operator and surrounding environment even when so damaged that it allows the ingress of water, egress of internal substances, or foreign material.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Cables Specs 4.2	**Mechanical Safety**		

ISS-A Radio Cables Specs 4.2.1	All ISS-A Cables and Accessories must bear no raw, sharp, or rough edges on any parts.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.
ISS-A Radio Cables Specs 4.3	**Thermal Contact Hazard**		
ISS-A Radio Cables Specs 4.3.1	The maximum allowable surface contact temperatures for all ISS-A Cables and Accessories must be in accordance with MIL-STD-1472G section 5.7.6.9 Thermal contact hazards.	Analysis Report or Explanation	This technical evaluation criterion will be met if the Analysis Report or the Explanation demonstrates that the requirement is met.

ANNEX B, BASIS OF PAYMENT-TO BE COMPLETED BY BIDDER (Taxes excluded in all Tables)

Firm Fixed Fee : *The Contractor shall be paid, Firm Fixed Extended Prices (FFP), items will be DAP (Delivery at Place) as shown in the tables below.*
All Goods items must individually include DAP (Delivered at Place), the Contractor is responsible for export clearance, delivery charges, administration costs and transport risks. Canada is responsible for all import clearance, including the payment of applicable duties.

DELIVERED AT PLACE:

All items in the tables below are to delivered to the following address:
Canadian Forces Supply Depot Edmonton (7 CFSD)
195 Ave 82 St
Building 236
Edmonton, Alberta
T5J 4J5

Table 1

	FIRM REQUIREMENTS (Table 1 to be completed by Bidder) INCOTERMS 2010, DAP (Delivery at Place)	Qty	Unit Price	Extended Price
	Firm Requirements			
1	**ISS-A Radio. This includes the power adapter, GPS antenna, wide-band RF antenna(e) (225-450 and 1250-2600 MHz), programming software and TSM license.**	**1250**		$ -
2	**Audio cable (for INVISIO® V60 Tactical Headset System)**	**1250**		$ -
3	**Data Cable**	**1250**		$ -
4	**Programming cable**	**1250**		$ -
				$ -
	All blocks must be filled out for Total evaluated price	**Total Extended Price**	$ -	$ -

Table 2

	OPTIONAL REQUIREMENTS (Table 2 to be completed by Bidder) Delivery INCOTERMS 2010, DAP (Delivery at Place)	Qty (up to)*	Contract Award until Option Year 1	Option Year 1	Option Year 2
	Note: Optional Requirements are not firm orders. Canada may or may not exercise one or all items within this table. The Optional Requirements do not in any way constitute a commitment on behalf of Canada. Canada may exercise the quanties at any time throughout the excerised Optional years				
1	**ISS-A Radio. This includes the power adapter, GPS antenna, wide-band RF antenna(e) (225-450 and 1250-2600 MHz), programming software and TSM license.**	**1250**			
2	**Audio cable (for INVISIO® V60 Tactical Headset System)**	**1250**		$ -	
3	**Data Cable**	**1250**		$ -	
4	**Programming cable**	**1250**		$ -	
	All blocks must be filled out for Total evaluated price	**Total Extended Price**		$ -	

Table 3

	Optional Spare Parts Order (Note: Bidders should provide breakdown of parts with their pricing which will be inserted after contract award. Delivery INCOTERMS 2010, DAP(Delivery at Place)	Qty	Contract Award until Option Year 1	Option Year 1	Option Year 2
1	**As determined by the Technical Authority after review of recommended spares parts list**	**TBD**			

This table is not completed as part of the bid

Additional Work Requirements: Where the sasifactory performance of approved Additional Work Requirements, in accordance with the Resultant Contract Articles of Agreement 6, entailsthe provision of labour services the Contractor will be paid firm hourly rates as per Table 4 below.

Table 4

	Labour Category	Level of Effort (A)	Firm Hourly Rate (B)	Total
4.1*	Hour			
4.2*	Hourly rate per labour category			
	Program Manager	200	$ -	$ -
	Senior Engineer	200	$ -	$ -
	Engineering Manager	200	$ -	$ -
	Junior Engineer	200	$ -	$ -
	Design Engineer	200	$ -	$ -
	Technician	200	$ -	$ -
	Scientist	200	$ -	$ -
	Program Analyst	200	$ -	$ -
	Writer/Trainer	200	$ -	$ -
	Configuration Control Manager	200	$ -	$ -
4.3*	Section 4.0 Total:			$ -

4.1* Number of hours (200) used for bid price evaluation only, this does not constitute an obligation of work on behalf of Canada.
4.2* Enter the Firm Hourly Rate (B) for each labour category. Multiply the Level of Effort (A) X Firm Hourly Rate (B).
4.3* Summation of all totals of section 4.2

Additional Work Requirements: Where the satisfactory performance of approved Additional Work Requirements, in accordance with the Resultant Contract Articles of Agreement 6, entails the provision of materials, the Contractor shall be paid actual costs plus a firm material mark-up rate, in percentage, including all overhead and profit, as listed in **Table 5.0** below.

Table 5.0

	Material Mark-up	
5.1*	Material Cost	$150,000.00
5.2*	Material Mark-up Rate	0%
5.3*	Mark-up Total $	$ -
5.4*	Section 5.0 Total:	$ -

5.1* Material Cost used for bid price comparaison only.
5.2* Enter the Material Mark-up Rate Percentage.
5.3* Calculate the Mark-up Total (section 5.1 X [1 + section 5.2]).
5.4* Summation of all items of section 5.3

Additional Work Requirements- Where the satisfactory performance of approved Additional Work Requirements, in accordance with the Resultant Contract Articles of Agreement 6, entails the provision of subcontracting, the Contractor shall be paid actual costs plus a firm subcontracting mark-up rate, in percentage, including all overhead and profit, as listed in **Table 6.0** below.

Table 6.0

	Sub contractor Mark-up	
6.1*	Material / Service Cost	$150,000.00
6.2*	Material / Service Mark-up Rate	0%
6.3*	Mark-up Total $	$ -
6.4*	Section 6.0 Total:	$ -

6.1* Material / Service Cost used for bid price comparaison only.
6.2* Enter the Material / Service Mark-up Rate Percentage.
6.3* Calculate the Mark-up Total (section 6.1 X [1 + section 6.2])
6.4* Summation of all item of section 6.3

Travel and Living Expenses: Where the satisfactory performance of approved Additional Work Requests entails Travel and Living Expenses, the Contractor will be reimbursed for these expenses reasonably and properly incurred in the performance of the Work. The reimbursement will be at cost without allowances for profit and/or administrative overhead. The reimbursement will be in accordance with the Treasury Board Travel Directive or the Contractor's internal policies, whichever is less. The applicable items in the Treasury Board Travel Directive are:
a) The provisions in the directive referring to "travellers", rather than those referring to "employees"; and
b) The meal, private vehicle and incidental expenses provided in Appendices B, C and D.

Total Evalutated Financial Bid price	
Total Table 1 (EqualsTotal Extended Price)	**$ -**
Total Table 2 (Sum of total Extended Price)	**$ -**
Total Table 4	**$ -**
Total Table 5	**$ -**
Total Table 6	**$ -**
Total Evalutated Financial Bid price	**$ -**

National Défense
Defence nationale

TASK AUTHORIZATION
AUTORISATION DES TÂCHES

All invoices/progress claims must show the reference Contract and Task numbers. Toutes les factures doivent indiquer les numéros du contrat et de la tâche.	Contract no. – N° du contrat Task no. – N° de la tâche

Amendment no. – N° de la modification	Increase/Decrease – Augmentation/Réduction	Previous value – Valeur précédente

To – À

Delivery location – Expédiez à

Delivery/Completion date – Date de livraison/d'achèvement

TO THE CONTRACTOR

You are requested to supply the following services in accordance with the terms of the above reference contract. Only services included in the contract shall be supplied against this task.

Please advise the undersigned if the completion date cannot be met. Invoices/progress claims shall be prepared in accordance with the instructions set out in the contract.

À L'ENTREPRENEUR

Vous êtes prié de fournir les services suivants en conformité des termes du contrat mentionné ci-dessus. Seuls les services mentionnés dans le contrat doivent être fournis à l'appui de cette demande.

Prière d'aviser le signataire si la livraison ne peut se faire dans les délais prescrits. Les factures doivent être établies selon les instructions énoncées dans le contrat.

Date

for the Department of National Defence
pour le ministère de la Défense nationale

Contract item no. N° d'article du contrat	Services	Cost Prix
	GST/HST TPS/TVH	
	Total	

APPLICABLE ONLY TO PWGSC CONTRACTS: The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract.

NE S'APPLIQUE QU'AUX CONTRATS DE TPSGC : La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.

for the Department of Public Works and Government Services
pour le ministère des Travaux publics et services gouvernementaux