

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

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

Proposal To: National Defence 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 and services listed herein and on any attached sheets at the price(s) set out therefore.

Proposition à : Défense nationale 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 et services énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Solicitation Closes - L'invitation prend fin

At – à :

2:00 PM

On - le :

28 June 2018

Time Zone - Fuseau Horaire :

Eastern Daylight Time (EDT)

Title - Titre Tactical Air Control Party (TACP) Headset Assembly	Solicitation No - N° de l'invitation W8476-195936/A
Date of Solicitation - Date de l'invitation 13 June 2018	
Address Enquiries to - Adresser toutes questions à Sandy (Alexander) Ueffing	
Telephone No. - N° de téléphone 819-939-8920	E-Mail Address - Courriel Alexander.Ueffing@forces.gc.ca
Destination See herein.	

Instructions: Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

Instructions: Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Delivery required - Livraison exigée 31 January 2019	Delivery offered - Livraison proposée
Vendor Name and Address - Raison sociale et adresse du fournisseur	
Name and title of person authorized to sign on behalf of vendor (type or print) - Nom et titre de la personne autorisée à signer au nom du fournisseur (caractère d'imprimerie)	
Name/Nom _____	Title/Titre _____
Signature _____	Date _____

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PART 1 - GENERAL INFORMATION

1.1 Requirement

- A. The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.2 Debriefings

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

1.3 Trade Agreements

- A. The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

1.4 Canadian Content

- A. The requirement is subject to a preference for Canadian goods and/or services.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

- A. 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 (SACC) Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.
- B. 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.
- C. The **2003** (2017-04-27), Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modification(s):
 - (i) Section 02, Procurement Business Number, is deleted in its entirety;
 - (ii) Section 05, Submission of bids, subsection 4, is amended as follows:
 - Delete: 60 days
 - Insert: 120 days
 - (iii) Section 20, Further information, subsection 2 is deleted in its entirety.

2.2 Submission of Bids

- A. Bids must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time, and place indicated on page 1 of the bid solicitation.
- B. Due to the nature of the bid solicitation, bids transmitted by facsimile will not be accepted.

2.3 Enquiries - Bid Solicitation

- A. All enquiries must be submitted in writing to the Contracting Authority no later than 5 calendar days before the bid closing date. Enquiries received after that time may not be answered.
- B. 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

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

- A. 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 5 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- A. Canada requests that Bidders provide their bid in separately bound sections as follows:
- Section I: Technical Bid: 4 hard copies;
- Section II: Financial Bid: 1 hard copy;
- Section III: Certifications: 1 hard copy; and
- Section IV: Additional Information: 1 hard copy.
- B. Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.
- C. Canada requests that Bidders follow the format instructions described below in the preparation of their bid:
- (i) Use 8.5 x 11 inch (216 mm x 279 mm) paper; and
 - (ii) Use a numbering system that corresponds to the bid solicitation.
- D. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:
- (i) Use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
 - (ii) Use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

3.2 Section I: Technical Bid

- A. In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

3.2.1 Equivalent Products

- A. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
- (i) designates the brand name, model and/or part number of the substitute product;
 - (ii) states that the substitute product is fully interchangeable with the item specified;
 - (iii) provides complete specifications and descriptive literature for each substitute product;
 - (iv) provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and

- (v) clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
- B. Products offered as equivalent in form, fit, function and quality will not be considered if:
 - (i) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
 - (ii) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
- C. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

3.2.2 Substitute Products - Samples

- A. If the Bidder offers a substitute product, the Bidder must provide a sample in order to determine its equivalency in form, fit, function, quality, and performance to the item specified in the bid solicitation.
- B. The sample submitted by the Bidder will remain the property of Canada and will not be considered as part of the deliverables in any resulting contract. If the sample does not meet the requirements of the bid solicitation or the Bidder fails to comply with the request of the Contracting Authority, the bid will be declared non-responsive.

3.3 Section II: Financial Bid

- A. Bidders must submit their financial bid in accordance with the Pricing Schedule detailed in Attachment 1 to Part 3.

3.3.1 Electronic Payment of Invoices - Bid

- A. If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Attachment 2 to Part 3, Electronic Payment Instruments, to identify which ones are accepted.
- B. If Attachment 2 to Part 3, Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.
- C. Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.3.2 Exchange Rate Fluctuation

- A. The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

3.4 Section III: Certifications

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

3.5 Section IV: Additional Information

A. In Section IV of their bid, bidders should provide:

- (i) A completed, signed, and dated Page 1 of this solicitation;
- (ii) The name of the contact person (provide also this person's title, mailing address, phone number, and email address) authorized by the Bidder to enter into communications with Canada with regards to their bid, and any contract that may result from their bid;
- (iii) For Part 2, article 2.4, Applicable Laws, of the bid solicitation: the province or territory if different than specified; and
- (iv) Any other information submitted in the bid not already detailed.

ATTACHMENT 1 TO PART 3 - PRICING SCHEDULE

1. Instructions

- A. The Bidder must complete this pricing schedule and include it in its financial bid.
- B. The firm rates specified below includes all expenses that may need to be incurred to satisfy the terms of any contract that may result from its bid.
- C. Bidders must submit firm prices, Delivered Duty Paid (DDP) at 25 CFSD Montreal, Montréal, Québec, Incoterms 2010.
- D. All prices and costs must be submitted in Canadian Dollars, Applicable Taxes excluded, Canadian customs duties and excise taxes included.

2. Pricing Schedule

2.1 Firm Goods

Item (A)	Number Required (B)	All-Inclusive Fixed Unit Cost (C)	Total Cost (D = B x C)
TCI LIBERATOR III INTEGRATED TACP/JTAC COMMUNICATIONS SUITE, PN CTB3_U_ITJ32/LODB-AM-2-FDE-R, as per Annex A, Requirement OR EQUIVALENT If offering an equivalent, please specify. Part Number Offered: _____ Name of Manufacturer: _____	27	\$	\$

2.2 Optional Goods

Item (E)	Estimated Number (F)	All-Inclusive Fixed Unit Cost (G)	Est. Total Cost (H = F x G)
<p>TCI LIBERATOR III INTEGRATED TACP/JTAC COMMUNICATIONS SUITE, PN CTB3_U_ITJ32/LODB-AM-2-FDE-R, as per Annex A, Requirement</p> <p>OR EQUIVALENT</p> <p>If offering an equivalent, please specify.</p> <p>Part Number Offered:</p> <p>_____</p> <p>Name of Manufacturer:</p> <p>_____</p>	27	\$	\$

2.3 Totals

Bid Price (I = D + H)	\$
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ATTACHMENT 2 TO PART 3 - ELECTRONIC PAYMENT INSTRUMENTS

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

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only); and
- Large Value Transfer System (LVTS) (Over \$25M).

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- A. Bids will be assessed in accordance with the entire requirement of the bid solicitation.
- B. An evaluation team, composed of representatives of Canada and the following firms, will evaluate the bids:
 - (i) ADGA Group Consultants Inc.;
 - (ii) Calian Group Ltd.; and
 - (iii) Valcom Consulting Group Inc.
- C. The evaluation team will determine first if there are two (2) or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

4.1.1 Technical Evaluation

- A. Bidders must demonstrate their compliance with all technical evaluation criteria detailed in Attachment 1 to Part 4, Evaluation Criteria.
- B. Bidders proposing substitutes and/or alternatives must submit, with their bid all the information requested as detailed in the section in Part 3 entitled Equivalent Products to be considered for evaluation.

4.1.2 Financial Evaluation

- A. The price of the bid will be evaluated in Canadian dollars, Delivered Duty Paid (DDP) at 25 CFSD Montreal, Montréal, Québec, Incoterms 2010, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

4.2 Basis of Selection - Lowest Evaluated Price, Mandatory Technical Criteria

- A. 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 on an aggregate basis will be recommended for award of a contract.

ATTACHMENT 1 TO PART 4 - EVALUATION CRITERIA

1. Mandatory Technical Criteria

- A. If the Bidder is submitting the TCI LIBERATOR III INTEGRATED TACP/JTAC COMMUNICATIONS SUITE, PN CTB3_U_ITJ32/LODB-AM-2-FDE-R, as per Annex A, Requirement, there are no Mandatory Technical Criteria and no further information is required for this section; or
- B. If the Bidder is submitting an Equivalent Product as per section 3.2.1, Equivalent Products, for each equivalent product:
 - (i) A sample product must be included in the Bid as per section 3.2.2, Substitute Products - Samples; and
 - (ii) Attachment 2 to Part 4, Compliance Matrix, must be completed.

ATTACHMENT 2 TO PART 4 - COMPLIANCE MATRIX

1. General

1.1 This annex is only applicable to Bidders who submit a bid which includes at least one substitute and/or alternate product. Bidders who submit a bid with no substitute and/or alternate product do not have to complete the Compliance Matrix included in this annex.

1.2 The proposal must fully demonstrate compliance with the mandatory requirements stated in the solicitation. Canada requires that a completed Compliance Matrix be included in the proposal. The matrix must explicitly address all the requirements applicable to all substitute and alternatives part of the submission, on a paragraph-by-paragraph basis. The response to each paragraph should be a compliance statement ("Compliant" or "Non-Compliant").

1.3 The Bidder must also provide with the matrix all documents to support Canada's verification of the technical requirements as detailed in the Compliance Matrix, column "Information to Bidder", for the Compliant statements.

2. Definitions and Acronyms

Acronyms

Amp	Ampere
ANR	Active Noise Reduction
°C	Celsius
CF	Canadian Forces
cm	Centimetre(s)
dB	Decibel(s)
dB SPL	Decibel(s) Sound Pressure Level
dBA	A-weighted decibel(s)
dBV/Pa	Decibel(s) reference 1 Volt/Pascal
ESD	Electrostatic Discharge
GHz	Gigahertz
HBM	Human Body Model
Hz	Hertz
IP	Ingress Protection
kHz	Kilohertz
m	Metre
MHz	Megahertz
mm	Millimetre(s)
MTBF	Mean Time Between Failures
NATO	North Atlantic Treaty Organization

NRS	Noise Reduction System
NSN	NATO Stock Number
PNR	Passive Noise Reduction
PTT	Push-To-Talk
RF	Radio Frequency
RFP	Request For Proposal
TTC	Talk-Through Circuit
μPa	MicroPascal
V	Volt(s)
VRMS	Volt(s) Root-Mean-Square

Terminology and Definitions

Active Noise Reduction	A method of decreasing, by electro-acoustical means, the ambient noise level under the headset at the ear canal.
Dynamic microphone	Microphones that convert sound into an electrical signal by means of electromagnetism. They fall into two categories, moving coil and ribbon microphones.
Earphone	A device that converts electrical energy into sound waves and is worn over or inserted into the ear.
Passive Noise Reduction	A method of decreasing the ambient noise level under the headset at the ear canal based on the physical design of the ear shells. Passive noise reduction doesn't require power.
Push-To-Talk	A switch on the handset or the microphone of a radio that must be depressed in order to emit and which automatically interrupts reception.
Sound localisation	A listener's ability to identify the location or origin of a detected sound in direction and distance.
Talk-Through Circuit	The ability to monitor external sounds such as speech without having to lift the ear shells off of the ear.

Applicable Documents

Table C-1: Standards and Reference Documents

Document Identifier	Title
FED-STD-595C1	FED-STD-595C, Federal Standard, Colors used in Government Procurement, 16 January 2008, including Change Notice 1 dated 31 July 2008.
IEC-60529-2013	IEC 60529:1989, Degrees of protection provided by enclosures (IP Code), 30 November 1989, with Amendment 1 dated 16 November 1999 and Amendment 2 dated 29 August 2013.
MIL-PRF-49078A	MIL-PRF-49078A(CR), Performance Specification Handset H-250()/U, 9 October 1997.

Document Identifier	Title
MIL-STD-461G	MIL-STD-461G, Department of Defense Interface Standard – Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment, 11 December 2015.
MIL-STD-810G1	MIL-STD-810G, Department of Defense Test Method Standard, Environmental Engineering Considerations and Laboratory Tests, 31 October 2008, with Change 1 dated 15 April 2014.
MIL-STD-1686C	MIL-STD-1686C, Department of Defense Standard Practice, Electrostatic Discharge Control Program for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices), 25 October 1995.
PRC-117F	Harris DS-207J, Harris AN/PRC-117F(C) Type 1 Multiband, Multimission Radio, 2007.
PRC-117G	Harris DS-357M, Harris Falcon III® AN/PRC-117G(V)1(C) Multiband Networking Manpack Radio, 2015.
PRC-152	Harris DS-321L, Harris AN/PRC-152 Type-1 Multiband Multimission Handheld Radio, 2010.
PRC-152A	Harris DS-475I, Harris Falcon III® AN/PRC-152A Wideband Networking Handheld Radio, 2015.

3. Compliance Matrix

The Compliance Matrix provided in this annex is to assist the Bidders in preparing for the Technical Bid evaluation activities, completing their response, and demonstrating their compliance to the technical requirements of the Request For Proposal (RFP).

4. Technical Bid Evaluation Procedure

4.1 A bid must meet all mandatory technical evaluation criteria to be declared responsive. In the case where a mandatory item cannot be or is not complied with, the proposal will receive no further consideration.

4.2 Each Mandatory requirement will be independently evaluated by the evaluation team.

5. Technical Bid Mandatory Requirements Compliance Matrix

5.1 To assist Bidders in completing their response, this annex provides a Compliance Matrix for the Mandatory requirements, **Table C-2**, for the mandatory requirements of Annex A of the RFP.

5.2 The Compliance Matrix has the following columns:

INFORMATION PROVIDED WITH THE RFP:

- a. **ID:** a unique identifier within the Headset Assembly RFP. IDs do not necessarily have successive numbers.
- b. **Requirement Statement:** the text of the Mandatory requirement statement.
- c. **Information to Bidder:** additional information that the Bidder must use to prove compliancy. It will be used by Canada to evaluate the Bidder's response.

INFORMATION THE BIDDER MUST PROVIDE:

- d. **Bidder's Compliance:** the Bidder should specify that its proposal is compliant or non-compliant to the Mandatory requirements. The Bidder should describe its compliance by using the words "COMPLIANT" or "NON-COMPLIANT". The aforementioned compliance terms have the following meanings:
 - (1) COMPLIANT indicates that the Bidder claims that the proposed solution complies totally with the Mandatory requirement.
 - (2) NON-COMPLIANT indicates that the Bidder cannot claim that the proposed solution meets the Mandatory technical requirement.
- e. **Bidder's Reference:** the Bidder should provide a reference to the document which contains the required information to support and prove compliancy to the requirement. As a minimum, the Bidder should provide references to the documents identified in column "Information to Bidder". Other supporting documentation or certification may be used as part of the Bidder's response. All of the referenced documentation must be included with the proposal. References to web pages are forbidden. The Bidder's proposal must be complete by itself.

Table C-2: Mandatory Requirements Compliance Matrix

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-001	1. Technical Requirements			
HA-002	The Headset Assembly must consist of: (a) a Headset with a microphone and two earphones, (b) a Headset Talk-Through Circuit (TTC) to convey safe levels of environment noise, (c) a Headset Noise Reduction System (NRS), (d) a wired Push-To-Talk (PTT), (e) a Handset, and (f) a Storage Bag.	Canada will verify that the Bid Sample includes all of the specified components of the Headset Assembly.		
HA-003	1.1 Headset Assembly Performance and Characteristics			
HA-004	1.1.1 Main Characteristics			
HA-005	The Headset Assembly must satisfy the technical requirements of this specification when used with any combination of Harris AN/PRC-117F, AN/PRC-117G, AN/PRC-152, and AN/PRC-152A radios.	The Bidder must prove that each technical requirement in this table can be met when the Handset Assembly is used with any combination of Harris AN/PRC-117F, AN/PRC-117G, AN/PRC-152, and AN/PRC-152A radios. Canada will exercise the Bid Sample with Harris AN/PRC-117F, AN/PRC-117G, AN/PRC-152, and AN/PRC-152A radios against requirements as indicated in this table, column "Information to Bidder".		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-006	The Headset Assembly user must be able to perform sequential voice transmissions on two distinct radios without reconfiguration of the Headset Assembly.	<p>The Bidder must indicate how the Headset Assembly meets this requirement.</p> <p>Canada will exercise the Bid Sample using the setup illustrated at Figure C-3. PTT button B1 will be activated to transmit voice from the Headset microphone through Rad #1, and Rad #3 generic headset will be used to listen to the transmitted voice. PTT button B2 will be activated to transmit voice from the Headset microphone through Rad #2, and Rad #4 generic headset will be used to listen to the transmitted voice.</p>		
HA-007	The Headset Assembly user must be able to listen to two radio voice input signals simultaneously, with one voice signal to each ear.	<p>The Bidder must indicate how the Headset Assembly meets this requirement.</p> <p>Canada will exercise the Bid Sample using the setup illustrated at Figure C-3. The generic headsets will be used to simultaneously transmit voice through both Rad #3 and Rad #4 generic radios. Canada will use the Headset to verify simultaneous delivery of the Rad #3 transmitted voice in one earphone of the Headset and the Rad #4 transmitted voice in the other earphone.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-008	The Headset Assembly must include the ability for two users to simultaneously share the send and receive audio capabilities of a single radio, with one user using the Headset and PTT, and the second user using the Handset.	<p>The Bidder must indicate how the Headset Assembly meets this requirement.</p> <p>Canada will exercise the Bid Sample using the setup illustrated at Figure C-3. PTT button B1 will be activated to transmit voice from the Headset microphone through Rad #1, and Rad #3 generic headset will be used to listen to the transmitted voice. The Handset PTT will be activated to transmit voice through Rad #1, and Rad #3 generic headset will be used to listen to the transmitted voice. A generic headset will be used to transmit voice through Rad #3, and Canada will verify that both the Headset and Handset can be used simultaneously to listen to the transmitted voice.</p>		
HA-009	1.1.2 Audio Quality			
HA-010	The Headset Assembly must transmit and receive intelligible radio voice signals without buzzing, rattling or other spurious sounds.	<p>The Bidder must indicate how the Headset Assembly meets this requirement.</p> <p>Canada will verify this requirement during the tests conducted on the Bid Sample against other requirements. Canada will verify that voice received at both the Headset and Handset is intelligible to the listener without buzzing, rattling or other spurious sounds. Canada will verify that voice generated at the Headset and the Handset received at the generic headsets is intelligible to the listeners without buzzing, rattling or other spurious sounds.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-011	The Headset Assembly must cause no noise or feedback when not in operation, regardless of a radio connection.	<p>The Bidder must indicate how the Headset Assembly meets this requirement.</p> <p>Canada will exercise the Bid Sample using the setup illustrated at Figure C-3. Canada will verify that there is no noise or feedback out of both the Headset and Handset when there is no radio transmission and reception taking place. The Headset will be verified in all TTC and Active Noise Reduction (ANR) modes (enabled, disabled) and with the TTC volume at different values. Canada will repeat the test with only one radio connected to the PTT.</p>		
HA-012	1.1.3 Headset Microphone			
HA-013	The Headset must incorporate a flexible dynamic, noise-cancelling boom-mounted microphone which collects the user's voice signal.	<p>The Bidder must indicate how the Headset microphone meets this requirement.</p> <p>Canada will verify that the Bid Sample Headset includes a flexible boom-mounted microphone. Voice capture will be verified during tests against other requirements.</p>		
HA-014	The sensitivity of the microphone must be at least -69 dBV/Pa.	The Bidder must indicate how the Headset microphone meets this requirement.		
HA-015	The microphone must support a frequency range of 50 to 20000 Hz.	The Bidder must indicate how the Headset microphone meets this requirement.		
HA-016	The output impedance of the microphone must be within the range of 140 to 350 ohms at 1 kHz.	The Bidder must indicate how the Headset microphone meets this requirement.		
HA-017	The boom-mounted microphone must include a user activated reading light producing white light.	<p>The Bidder must indicate how the Headset microphone meets this requirement.</p> <p>Canada will verify that the Bid Sample Headset microphone includes a reading light. The Headset user will enable and disable the reading light and verify it produces white light.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-018	1.1.4 Headset Earphones			
HA-019	The Headset must include earphones that emit the audio signal to the ears of the user.	The Bidder must indicate how the Headset earphones meet this requirement. Canada will verify this requirement during tests against other requirements using the Bid Sample.		
HA-020	Each earphone must be mounted in a rigid ear shell.	The Bidder must indicate how the Headset earphones meet this requirement. Canada will verify that the Bid Sample Headset earphones are mounted in rigid ear shells.		
HA-021	The sensitivity of each earphone measured at the ear canal must be a minimum of 99 dB SPL reference 20 µPa/VRMS at 1 kHz.	The Bidder must indicate how the Headset earphones meet this requirement.		
HA-022	The earphone frequency response from 300 to 3400 Hz must vary less than 12 dB from the lowest measurement to the highest measurement.	The Bidder must indicate how the Headset earphones meet this requirement.		
HA-023	1.1.5 Headset Talk-Through Circuit			
HA-024	The Talk-Through Circuit (TTC) must allow local ambient sound to be transmitted to the wearer's ears when activated.	The Bidder must indicate how the Headset TTC meets this requirement. Canada will verify that a Bid Sample Headset user hears local ambient sound when the TTC is enabled.		
HA-025	Activation of the TTC must give the user the ability to hear local ambient sound at a level similar or better to that would be experienced without wearing the Headset.	The Bidder must indicate how the Headset TTC meets this requirement. Canada will verify that a Bid Sample Headset user hears local ambient sound when the TTC is enabled, at a level similar or better to that would be experienced without wearing the Headset.		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-026	The audio level of the ambient sound through the TTC must be limited to a maximum of 90 dBA.	<p>The Bidder must indicate how the Headset TTC meets this requirement.</p> <p>Canada will conduct audio attenuation tests on the Bid Sample using the setup illustrated at Figures C-4 and C-5. Canada will verify both ear shells with the TTC enabled, one ear at a time. Verification will take place in a reverberating room, using a pink noise generator set at 95 dB SPL, frequency range from 80 to 6300 Hz. Measurements will be taken outside and inside the Headset ear shells.</p>		
HA-027	The TTC must provide the user with sound localisation.	<p>The Bidder must indicate how the Headset TTC meets this requirement.</p> <p>Canada will verify that a Bid Sample Headset user can identify the direction and relative distance of generated local ambient sounds when the TTC is enabled.</p>		
HA-028	1.1.6 Headset Noise Reduction			
HA-029	The Headset must provide both Active Noise Reduction (ANR) and Passive Noise Reduction (PNR).	<p>The Bidder must indicate how the Headset noise reduction system meets this requirement.</p> <p>Canada will verify that the Bid Sample Headset includes both ANR and PNR features (e.g. ANR activation switch, ear shell cushions).</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-030	The ANR system must be capable of reducing the ambient noise level to less than 85 dBA.	<p>The Bidder must indicate how the Headset ANR system meets this requirement.</p> <p>Canada will conduct audio attenuation tests on the Bid Sample using the setup illustrated at Figures C-4 and C-5. Canada will verify both ear shells with the ANR enabled, one ear at a time. Verification will take place in a reverberating room, using a pink noise generator set at 95 dB SPL, frequency range from 80 to 6300 Hz. Measurements will be taken outside and inside the Headset ear shells.</p>		
HA-031	While the TTC is activated, the ANR system must provide no attenuation when the environmental noise level is less than 80 dBA.	<p>The Bidder must indicate how the Headset ANR system meets this requirement.</p> <p>Canada will conduct audio attenuation tests on the Bid Sample using the setup illustrated at Figures C-4 and C-5. Canada will verify both ear shells with the ANR enabled, one ear at a time. Verification will take place in a reverberating room, using a pink noise generator set at 75 dB SPL, frequency range from 80 to 6300 Hz. Measurements will be taken outside and inside the Headset ear shells.</p>		
HA-032	The Headset ear shells must contain padding (PNR) to reduce noise levels by at least 10 dB in the frequency range of 20 to 400 Hz.	<p>The Bidder must indicate how the Headset PNR system meets this requirement.</p> <p>Canada will conduct audio attenuation tests on the Bid Sample using the setup illustrated at Figures C-4 and C-5. Canada will verify both ear shells with both the ANR and TTC disabled, one ear at a time. Verification will take place in a reverberating room, using a pink noise generator set at 85 dB SPL, frequency range from 80 to 6300 Hz. Measurements will be taken outside and inside the Headset ear shells.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-033	The Headset ear shells must contain padding (PNR) to reduce noise levels by at least 20 dB in the frequency range of 400 to 4500 Hz.	<p>The Bidder must indicate how the Headset PNR system meets this requirement.</p> <p>Canada will conduct audio attenuation tests on the Bid Sample using the setup illustrated at Figures C-4 and C-5. Canada will verify both ear shells with both the ANR and TTC disabled, one ear at a time. Verification will take place in a reverberating room, using a pink noise generator set at 85 dB SPL, frequency range from 80 to 6300 Hz. Measurements will be taken outside and inside the Headset ear shells.</p>		
HA-034	1.1.7 Headset Controls			
HA-035	The Headset must provide a control that is continuously available to adjust the ambient sound output volume to the earphones.	<p>The Bidder must indicate how the Headset meets this requirement.</p> <p>Canada will verify that the Bid Sample Headset includes a functional ambient sound volume control which is continuously available to the user (e.g. rotary knob) when the TTC is enabled. The control will be used to lower and raise the ambient sound volume.</p>		
HA-036	The Headset must provide a control that is continuously available to enable and disable the TTC function.	<p>The Bidder must indicate how the Headset meets this requirement.</p> <p>Canada will verify that the Bid Sample Headset includes a functional TTC control which is continuously available to the user (e.g. on/off switch). The control will be used to enable and disable the TTC function.</p>		
HA-037	The Headset must provide a control that is continuously available to enable and disable the ANR function.	<p>The Bidder must indicate how the Headset meets this requirement.</p> <p>Canada will verify that the Bid Sample Headset includes a functional ANR control which is continuously available to the user (e.g. on/off switch). The control will be used to enable and disable the ANR function.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-038	The Headset must provide a control that is continuously available to enable and disable the boom-mounted microphone reading light.	The Bidder must indicate how the Headset meets this requirement. Canada will verify that the Bid Sample Headset includes a functional reading light control which is continuously available to the user (e.g. on/off switch). The control will be used to enable and disable the reading light.		
HA-039	All Headset controls specified must be located on only one of the ear shells.	The Bidder must indicate how the Headset meets this requirement. Canada will verify that a single Bid Sample Headset ear shell includes the four controls specified (ambient sound volume, TTC, ANR, and reading light).		
HA-040	All Headset controls must function normally when the user is wearing military issued gloves, NSN 8415-20-000-1680.	The Bidder must indicate how the Headset meets this requirement. Canada will verify that all Bid Sample Headset controls (e.g. ambient sound volume, TTC, ANR, and reading light) can function normally when operated by a user wearing military issued gloves, NSN 8415-20-000-1680.		
HA-041	1.1.8 Push-To-Talk			
HA-042	The Headset Assembly must incorporate a Push-To-Talk (PTT) switch to enable the sequential transmission of voice communications on two distinct radios, one voice channel per radio.	The Bidder must indicate how the Headset Assembly meets this requirement. Canada will verify that the Bid Sample Headset Assembly includes a PTT switch. Sequential voice transmission will be verified during tests against other requirements.		
HA-043	The PTT switch must be part of the Headset Assembly cable.	The Bidder must indicate how the PTT switch meets this requirement. Canada will verify that the Bid Sample Headset Assembly PTT switch is part of the Headset Assembly cable.		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-044	The force necessary to operate the PTT switch must be in the range of 1.4 to 11.0 Newton.	<p>The Bidder must identify the minimum force required to operate the PTT switch.</p> <p>Canada will measure the minimum force required to enable transmission of each of the two radios connected to the Bid Sample PTT switch.</p>		
HA-045	The PTT switch must be capable of a minimum of 1,000,000 operations.	The Bidder must indicate how the PTT switch meets this requirement.		
HA-046	The PTT switch must function normally when operated by a user wearing military issued gloves, NSN 8415-20-000-1680.	<p>The Bidder must indicate how the PTT switch meets this requirement.</p> <p>Canada will verify that the Bid Sample PTT switch can function normally when operated by a user wearing military issued gloves, NSN 8415-20-000-1680. A user wearing military issued gloves will operate the PTT switch during other functional tests.</p>		
HA-047	1.1.9 Handset			
HA-048	The Headset Assembly must incorporate a Handset to act as a radio interface for the second user when sharing the send and receive audio capabilities of a single radio.	<p>The Bidder must indicate how the Headset Assembly meets this requirement.</p> <p>Canada will exercise the Bid Sample using the setup illustrated at Figure C-3. PTT button B1 will be activated to transmit voice from the Headset microphone through Rad #1, and Rad #3 generic headset will be used to listen to the transmitted voice. The Handset PTT will be activated to transmit voice through Rad #1, and Rad #3 generic headset will be used to listen to the transmitted voice. A generic headset will be used to transmit voice through Rad #3, and both the Headset and Handset will be used simultaneously to listen to the transmitted voice.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-049	The Handset must be compliant with the Handset H-250 specification, MIL-PRF-49078A, Sections 3.1, 3.2.1 to 3.2.6, 3.3.2 to 3.3.5, 3.4 and 3.5.	The Bidder must indicate how the Handset meets this requirement.		
HA-050	1.1.10 Batteries			
HA-051	If batteries are required to satisfy the requirements of this specification, the Headset Assembly must only use commercially available AA or AAA batteries.	The Bidder must identify the type and quantity of batteries required to power the Headset Assembly. Canada will verify that the Bidder identified batteries can power the Bid Sample Headset Assembly, enabling the TTC and ANR functions. Canada will verify that the batteries are commercially available AA or AAA batteries.		
HA-052	A single fully charged set of batteries must power the Headset Assembly for 600 hours of continuous operations using a radio transmit-receive-standby duty cycle of 1:1:8.	The Bidder must prove a single battery set meets the requirement, i.e. no battery replacement allowed.		
HA-053	The Headset Assembly must provide an audible low battery power indicator.	The Bidder must indicate how the Headset Assembly meets this requirement, and identify the conditions necessary to trigger the indicator. Canada will install low power batteries in the Bid Sample Headset Assembly to verify that the Headset Assembly provides an audible low battery power indicator.		
HA-054	Batteries must be user-replaceable without the use of tools.	The Bidder must provide instructions for the installation and replacement of the Headset Assembly batteries. Canada will use instructions provided to install and replace the batteries to a Bid Sample and verify that no tools are required.		
HA-055	1.1.11 Cables			

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-056	The bail-out connectors of the Headset Assembly cables must disengage following the application of a minimum force of 36 Newton.	<p>The Bidder must identify the minimum force required to disengage all different bail-out connector types of the Handset Assembly cables.</p> <p>Canada will measure the minimum force required to disengage each bail-out connector types of the Bid Sample Headset Assembly.</p>		
HA-057	The Headset Assembly connectors must provide protection against connecting devices incorrectly (e.g. keyed connectors).	<p>The Bidder must indicate how each of the Headset Assembly connectors meets this requirement.</p> <p>Canada will verify labelling and marking on the Bid Sample connectors. Canada will try to mate connectors that are not meant to be mated within the Headset Assembly and between the Headset Assembly and the target radios.</p>		
HA-058	All cable connectors must have an effective built-in molded strain relief.	<p>The Bidder must indicate how each of the Headset Assembly cable connectors meets this requirement.</p> <p>Canada will verify that each connector of the Bid Sample Headset Assembly cables has an effective built-in molded strain relief.</p>		
HA-059	All cables directly connected to the PTT switch must have an effective built-in molded strain relief at the PTT switch entry point.	<p>The Bidder must indicate how each cable directly connected to the PTT switch meets this requirement.</p> <p>Canada will verify that each cable directly connected to the PTT switch has an effective built-in molded strain relief at the PTT switch entry point (e.g. cable to the Headset, cables to each of the 2 radios).</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-060	All connectors must permit installation and removal of mating cables without the use of tools.	<p>The Bidder must provide instructions for the installation and removal of all mating cables associated with each internal and external interface connector (e.g. Headset to PTT switch, PTT switch to radios, Handset to radio).</p> <p>Canada will use instructions provided to connect and disconnect cables to a Bid Sample and specified radios and verify that no tools are required.</p>		
HA-061	1.1.12 External Interfaces			
HA-062	1.1.12.1 Headgear Interface			
HA-063	The support mechanism used by the Headset must maintain comfortably the Headset on the soldier's head for a period of six hours without constant adjustment.	<p>The Bidder must indicate how the Headset meets this requirement. The Bidder must provide user instructions for proper wearing of the Headset.</p> <p>Canada representatives will wear the Bid Sample Headset for a period of 6 hours to verify and assess comfort in comparison to other headsets currently in use in the Canadian Forces. The Headset will be worn using the instructions provided.</p>		
HA-064	The Headset must operate and fit a user comfortably with the Canadian Forces (CF) combat helmet, model CG634, NSN 8470-21-912-7719.	<p>The Bidder must indicate how the Headset meets this requirement. The Bidder must provide user instructions for proper wearing of the Headset.</p> <p>Canada representatives will wear the Bid Sample Headset with the CF combat helmet, model CG634, to verify and assess comfort in comparison to other headsets currently in use in the CF. The Headset will be worn using the instructions provided. Canada will verify that there is no pressure point on the wearer's head between the helmet and the Headset support mechanism.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-065	The Headset mounted on a soldier head must fit under the CF combat helmet, model CG634, NSN 8470-21-912-7719.	<p>The Bidder must indicate how the Headset meets this requirement. The Bidder must provide user instructions for proper wearing of the Headset.</p> <p>Canada representatives will wear the Bid Sample Headset with the CF combat helmet, model CG634, to verify the Headset fits properly under the helmet. The Headset will be worn using the instructions provided.</p>		
HA-066	1.1.12.2 Radio Interfaces			
HA-067	Each Headset Assembly radio interface cable must be terminated at one end with an Harris J69-0001-623 6-pin audio connector, or equivalent, for connection to Harris AN/PRC-117F, AN/PRC-117G, AN/PRC-152, and AN/PRC-152A radios.	<p>The Bidder must specify the make and model of the connectors terminating the Headset Assembly radio interface cables for connection to Harris AN/PRC-117F, AN/PRC-117G, AN/PRC-152, and AN/PRC-152A radios.</p> <p>Canada will verify that the Bid Sample Headset Assembly radio interface cables physically connect to Harris AN/PRC-117F, AN/PRC-117G, AN/PRC-152, and AN/PRC-152A radios, and provide voice transmit and receive services to the radios using the setup illustrated at Figure C-3.</p>		
HA-068	1.1.12.3 PTT Clothing Clip			
HA-069	The PTT switch must be fitted with a clothing clip.	<p>The Bidder must indicate how the PTT switch meets this requirement. The Bidder must provide user instructions for proper wearing of the PPT switch using the clothing clip.</p> <p>Canada will verify that the Bid Sample PTT switch is fitted with a clothing clip.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-070	The clothing clip must permit the PTT switch to be securely oriented as per user preference.	<p>The Bidder must indicate how the PTT switch meets this requirement. The Bidder must provide user instructions for proper wearing of the PPT switch using the clothing clip.</p> <p>Canada representatives will wear the Bid Sample PTT switch, secure it to their clothing using the clothing clip provided, and orient it in various directions. The PTT switch will be worn using the instructions provided.</p>		
HA-071	1.1.13 Physical Characteristics			
HA-072	The Headset Assembly must contain no in-ear components.	<p>The Bidder must indicate how the Headset Assembly meets this requirement. The Bidder must provide user illustrations for proper wearing of the Headset Assembly, clearly showing the areas around the wearer's ears.</p> <p>Canada representatives will wear the Bid Sample Headset Assembly to verify there are no in-ear components. The Headset Assembly will be worn using the instructions provided.</p>		
HA-073	The Headset with its batteries must weigh a maximum of 500 grams.	<p>The Bidder must provide the weight of the Headset with sufficient batteries necessary for operation as per the specified requirements.</p> <p>Canada will weigh the Bid Sample Headset with batteries and verify it meets the specified limit.</p>		
HA-074	The PTT must weigh a maximum of 250 grams.	<p>The Bidder must provide the weight of the PTT.</p> <p>Canada will weigh the Bid Sample PTT and verify it meets the specified limit.</p>		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-075	The length of the Headset Assembly cable (Headset to PTT switch and PTT switch to the radio connectors) must be at least 680 mm.	The Bidder must provide the length of the Headset Assembly cable (Headset to PTT switch and PTT switch to the radio connectors), with diagrams and pictures. Canada will measure the length of the Bid Sample Headset Assembly cable, and verify it meets the specified limit.		
HA-076	The PTT switch must be smaller than the following dimensions: 90 mm long by 90 mm wide by 50 mm deep. The dimensions include the toggle switch levers and the clothing clip.	The Bidder must provide the physical dimensions (length, width and depth) of the PTT, with diagrams and pictures. Canada will measure the length, width and depth of the Bid Sample PTT, and verify the physical dimensions meet the specified limit.		
HA-077	The exterior surfaces of the Headset, the PTT switch, the Handset, and associated cables must be coloured with a non-reflective flat black, tan or green (e.g. FED-STD-595C1 colour Black Camo #37030, Green 383 Camo #34094).	The Bidder must identify the colour, finish and coating (e.g. colour code and properties) of the Headset, PTT switch, Handset and associated cables. Canada will verify that the color of the Bid Sample Headset, PTT switch, Handset and associated cables is black, tan or green, and that its finish and coating is non-reflective flat.		
HA-078	1.1.13.1 Headset Ear Shells			
HA-079	The Headset ear shells must not exceed the dimensions illustrated in Figure C-1.	The Bidder must provide the physical dimensions of the Headset ear shells corresponding to the ones in Figure C-1, with diagrams and pictures. Canada will measure the dimensions of the Bid Sample Headset ear shells, and verify the physical dimensions meet the specified limit.		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-080	Each Headset ear shell must permit a nominal 5 degrees of angular movement around the vertical axis.	<p>The Bidder must indicate how the Headset ear shells meet this requirement, with diagrams and pictures.</p> <p>Canada will measure the angular movement around the vertical axis of the Bid Sample Headset ear shells, and verify it meets the specified limit.</p>		
HA-081	Each Headset ear shell must permit a nominal 5 degrees of angular movement around the horizontal axis.	<p>The Bidder must indicate how the Headset ear shells meet this requirement, with diagrams and pictures.</p> <p>Canada will measure the angular movement around the horizontal axis of the Bid Sample Headset ear shells, and verify it meets the specified limit.</p>		
HA-082	The Headset ear shells must incorporate user replaceable ear cushions.	<p>The Bidder must provide user instructions for the replacement of Headset ear cushions, with diagrams and pictures.</p> <p>Canada will verify the Bid Sample Headset ears shells include ear cushions, and will remove and re-install the ear cushions using the instructions provided.</p>		
HA-083	Each ear cushion must have minimum internal dimensions of 40 mm wide and 65 mm high, as illustrated in Figure C-2.	<p>The Bidder must provide the physical internal dimensions (width and height) of the Headset ear cushions corresponding to the ones in Figure C-2, with diagrams and pictures.</p> <p>Canada will measure the dimensions of the Bid Sample Headset ear cushions, and verify the physical dimensions meet the specified limit.</p>		
HA-084	1.1.13.2 Headset Microphone			
HA-085	An integral moisture barrier must be naturally provided as part of the dynamic microphone element, to render the device a splash-proof assembly.	The Bidder must indicate how the Headset microphone meets this requirement.		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-086	The Headset boom-mounted microphone adjustment must permit the boom to move to any position, 90 degrees below and above the mouth, and directly touching to mouth to 6 cm away from the mouth.	The Bidder must indicate how the Headset boom-mounted microphone meet this requirement, with diagrams and pictures. Canada will measure the adjustment of the Bid Sample Headset boom-mounted microphone, and verify they meet the specified limit.		
HA-087	The microphone must have a mechanism to minimize pickup of wind noise.	The Bidder must indicate how the Headset microphone meets this requirement.		
HA-088	1.1.14 Storage Bag			
HA-089	The Storage Bag must permit the user to securely carry all components of the Headset Assembly.	The Bidder must show the Storage Bag can securely carry the Headset Assembly, with diagrams and pictures. Canada will install the Headset Assembly in the Storage Bag as documented in the Bidder's proposal and verify that the Headset Assembly can be securely carried (e.g. walk and run).		
HA-090	1.2 Non-Functional Requirements			
HA-091	The Headset Assembly Mean Time Between Failures (MTBF) must be greater than 1500 hours of operation at 25°C.	The Bidder must prove that the MTBF of the Headset Assembly is greater than 1500 hours of operation at 25°C.		
HA-092	All Headset Assembly cable interface connectors (e.g. two radio interfaces, Headset main cable interface) must have a lifetime of at least 2,000 mating cycles without requiring any maintenance.	The Bidder must describe the connector types used including the mating cycle specifications for each Headset Assembly cable interface connectors.		
HA-093	1.3 Environmental Conditions			

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-094	High Temperature - Operation: The Headset must operate normally during and after exposure to a high temperature of +48°C when tested in accordance with MIL-STD-810G1, Method 501.6, Procedure II, or equivalent test method.	The Bidder must provide a test report proving the requirement in accordance with MIL-STD-810G1 or equivalent. If not using MIL-STD-810G1, the test report must be accompanied with a comparison table of the methodology used against MIL-STD-810G1.		
HA-095	Low Temperature - Operation: The Headset must operate normally during and after exposure to a low temperature of -35°C when tested in accordance with MIL-STD-810G1, Method 502.6, Procedure II, or equivalent test method.	The Bidder must provide a test report proving the requirement in accordance with MIL-STD-810G1 or equivalent. If not using MIL-STD-810G1, the test report must be accompanied with a comparison table of the methodology used against MIL-STD-810G1.		
HA-096	Solar Radiation: The Headset must operate normally during and after exposure to high temperature diurnal cycles with temperatures up to +49°C when tested in accordance with MIL-STD-810G1, Method 505.6, Procedure I, or equivalent test method.	The Bidder must provide a test report proving the requirement in accordance with MIL-STD-810G1 or equivalent. If not using MIL-STD-810G1, the test report must be accompanied with a comparison table of the methodology used against MIL-STD-810G1.		
HA-097	Salt Fog: The Headset must operate normally following salt fog exposure when tested in accordance with MIL-STD-810G1, Method 509.6, or equivalent test method.	The Bidder must provide a test report proving the requirement in accordance with MIL-STD-810G1 or equivalent. If not using MIL-STD-810G1, the test report must be accompanied with a comparison table of the methodology used against MIL-STD-810G1.		
HA-098	Immersion: The Headset must operate normally following water immersion of one metre when tested in accordance with MIL-STD 810G1, Method 512.6, Procedure I, or equivalent test method.	The Bidder must provide a test report proving the requirement in accordance with MIL-STD-810G1 or equivalent. If not using MIL-STD-810G1, the test report must be accompanied with a comparison table of the methodology used against MIL-STD-810G1.		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-099	Shock - Transit Drop: The Headset must operate normally following 26 drops of 122 cm in height on a 5 cm plywood backed by concrete when tested in accordance with MIL-STD-810G1, Method 516.7, Procedure IV, Table 516.7-VII, or equivalent test method.	The Bidder must provide a test report proving the requirement in accordance with MIL-STD-810G1 or equivalent. If not using MIL-STD-810G1, the test report must be accompanied with a comparison table of the methodology used against MIL-STD-810G1.		
HA-100	Ingress Protection (IP): The Headset Assembly must be IP68 compliant in its operation mode when tested in accordance with IEC-60529-2013, or equivalent test method.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, certification sheet). If not using IEC-60529-2013, the Bidder must be accompany the justification with a comparison table of the methodology used against IEC-60529-2013.		
HA-101	1.4 Electromagnetic Interference and Compatibility			
HA-102	The Headset Assembly must be designed to operate normally and withstand Radio Frequency (RF) signals coupled onto the associated cabling in accordance with MIL-STD-461G test procedure CS114 (Conducted Susceptibility, bulk cable injection, 10 kHz to 200 MHz), or equivalent.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, design concepts and drawings).		
HA-103	The Headset Assembly must be designed to operate normally and withstand RF signals coupled onto the associated cabling in accordance with MIL-STD-461G test procedure CS115 (Conducted Susceptibility, bulk cable injection, 30 Nanosecond duration 5 Amps Peak Pulse, 30 Hz), or equivalent.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, design concepts and drawings).		

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-104	The Headset Assembly must be designed to operate normally and withstand damped sinusoidal transients coupled onto the associated cables and power leads in accordance with MIL-STD-461G test procedure CS116 (Conducted Susceptibility, damped sinusoidal transients, cables and power leads, 10 kHz to 100 MHz), or equivalent.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, design concepts and drawings).		
HA-105	The Headset Assembly must be designed to not exceed the specified levels for electric field emissions from the device and its supplied cabling in accordance with MIL-STD-461G test procedure RE102 (Radiated Emissions, electrical field, 2 MHz to 18 GHz) for Army Ground applications, or equivalent, as limited to an upper frequency limit of 10 GHz for Army applications.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, design concepts and drawings).		
HA-106	The Headset Assembly with its supplied cabling must be designed to operate normally and withstand electric fields in accordance with MIL-STD-461G test procedure RS103 (Radiated Susceptibility, electric field, 2 MHz to 18 GHz) for Army Ground applications, or equivalent, as limited to an upper frequency limit of 10 GHz for Army applications.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, design concepts and drawings).		
HA-107	1.5 Electrostatic Discharge			

ID	Requirement Statement	Information to Bidder	Bidder's Compliance	Bidder's Reference
HA-108	The Headset Assembly must be designed to meet Electrostatic Discharge (ESD) Human Body Model (HBM) requirements for 2000-3999 Volts as per MIL-STD-1686C, ESD HBM class 2 (2000-3999V), or equivalent.	The Bidder must indicate how the Headset Assembly meets this requirement (e.g. test report, design concepts and drawings).		

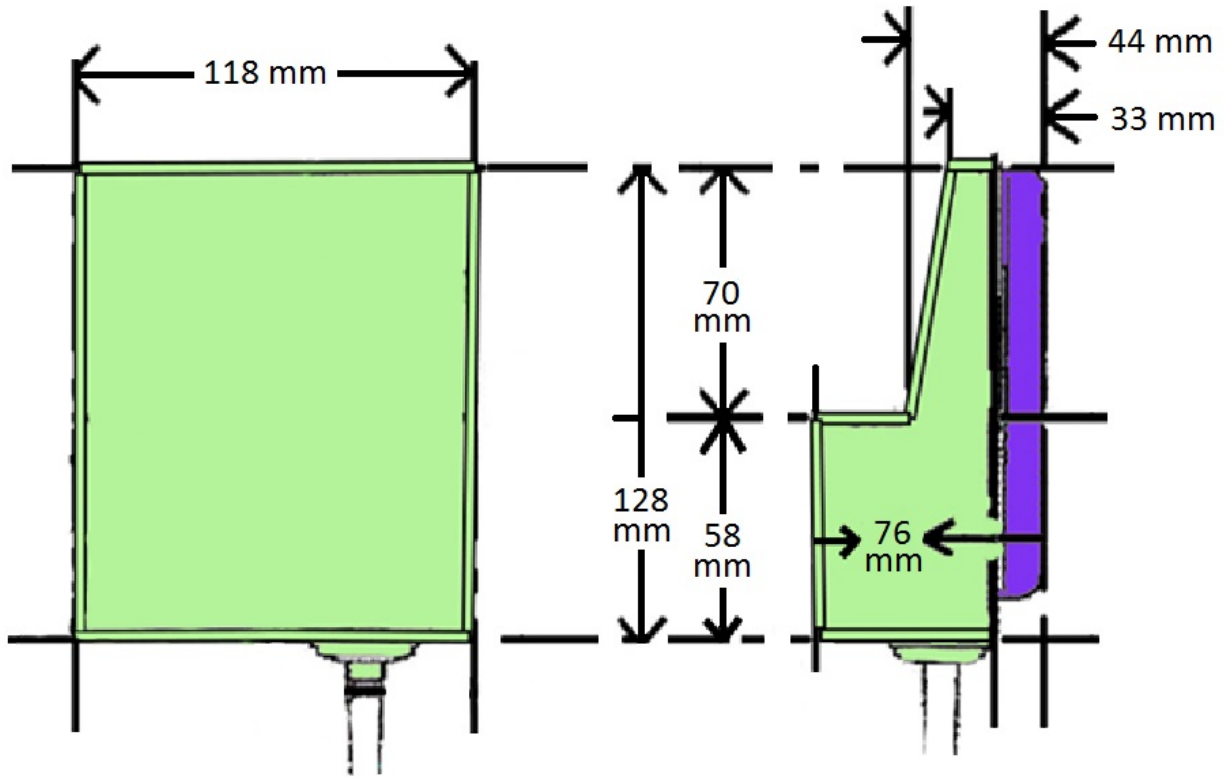


Figure C-1: Headset Ear Shells Maximum Dimensions

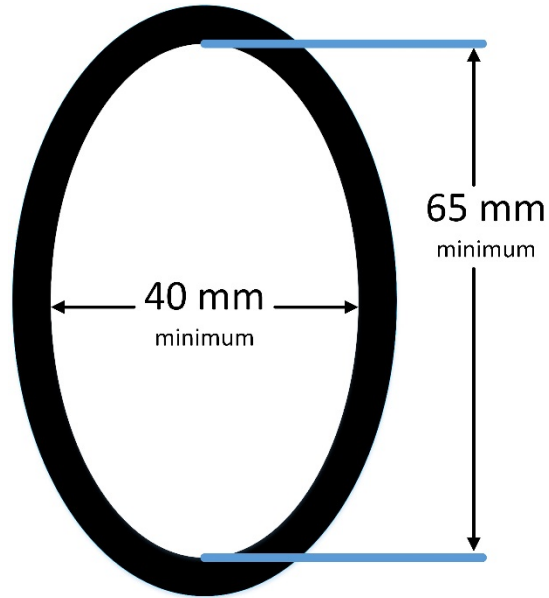


Figure C-2: Headset Ear Shell Cushion Minimum Inner Dimensions

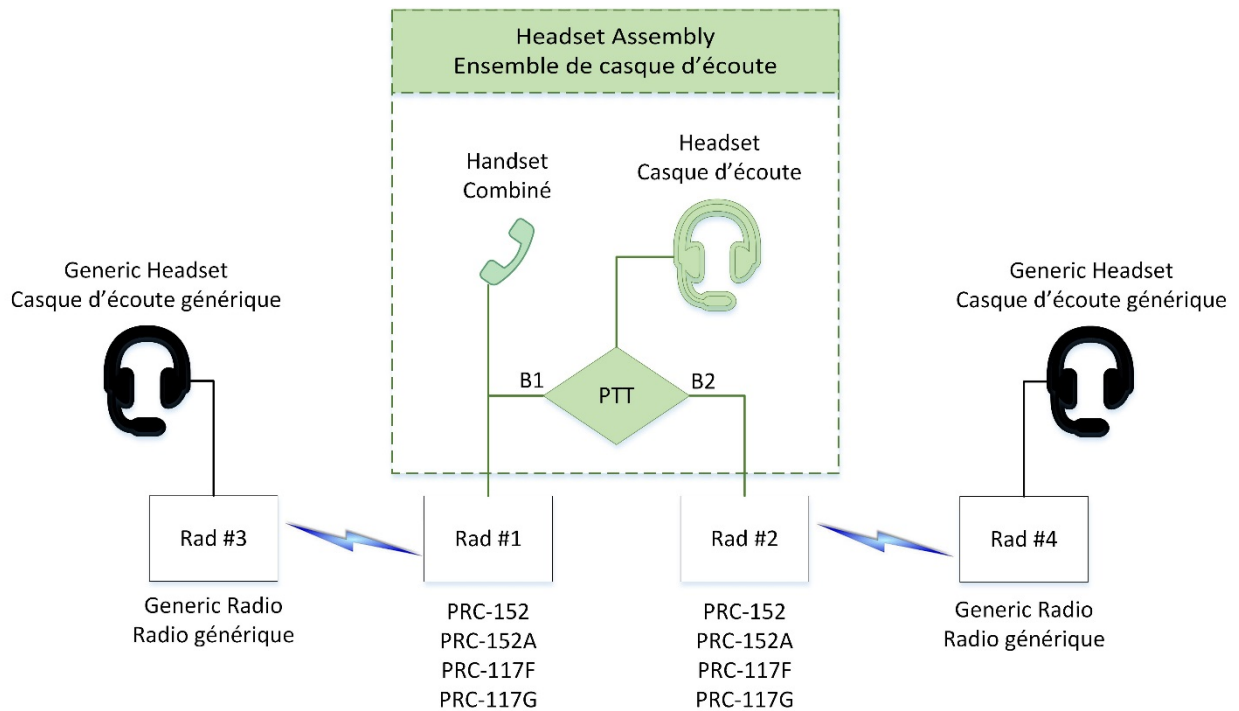


Figure C-3: Headset Assembly Audio Test Setup



Figure C-4: Headset TTC and Noise Reduction Test Setup (1/2)

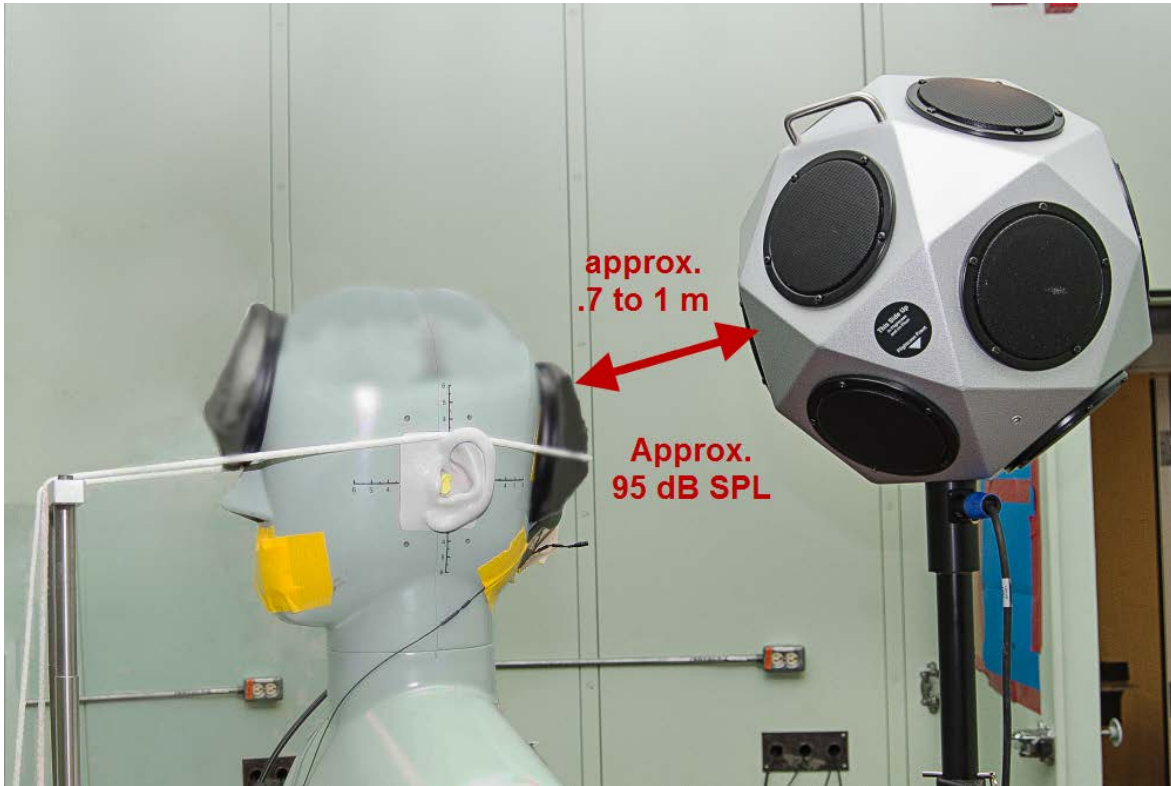


Figure C-5: Headset TTC and Noise Reduction Test Setup (2/2)

PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

- A. Bidders must provide the required certifications and additional information to be awarded a contract.
- B. 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.
- C. 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

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

- A. 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](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.1.2 Canadian Content Certification

- A. This procurement is conditionally limited to Canadian goods.
- B. Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the good(s) offered are Canadian goods, as defined in clause [A3050T](#) (2014-11-27), Canadian Content Definition, may be considered.
- C. Failure to provide this certification completed with the bid will result in the good(s) offered being treated as non-Canadian goods.
- D. The Bidder certifies that:
 - () the good(s) offered are Canadian goods as defined in paragraph 1 of clause [A3050T](#) (2014-11-27), Canadian Content Definition.

5.2 Certifications Precedent to Contract Award and Additional Information

- A. 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

- A. In accordance with the section titled "Information to be provided when bidding, contracting, or entering into a real procurement agreement" of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<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

- A. 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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).
- B. Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

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

ARTICLES OF AGREEMENT

6.1 Security Requirements

- A. There is no security requirement applicable to the Contract.

6.2 Requirement

- A. The Contractor must provide the item(s) detailed under the Requirement at Annex A.

6.2.1 Technical Changes, Substitutes, and Alternatives

- A. Any technical changes, substitutes and alternatives proposed by the Contractor must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function, quality and performance to what is being replaced and must be at no additional cost to Canada. Substitutes and alternatives that are offered as equivalent will only be acceptable once they are approved by the Technical Authority as an equivalent. A contract amendment or a completed Design Change/Deviation form will be issued.
- B. Should the Technical Authority not accept the substitute or the alternative and the Contractor is unable to meet the technical requirement, Canada may terminate the contract for default in accordance with the general conditions stated in the contract.

6.2.2 Optional Goods and/or Services

- A. The Contractor grants to Canada the irrevocable option to acquire the goods, services, or both described at Annex A, Requirement, 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.
- B. The Contracting Authority may exercise the option within 2 weeks after contract award by sending a written notice to the Contractor.

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

- A. [2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract, with the following modification:
 - (i) Article 01, Interpretation, "Canada", "Crown", "Her Majesty" or "the Government", is deleted in its entirety and replaced with the following:

"Canada", "Crown", "Her Majesty" or "the Government"
means Her Majesty the Queen in right of Canada as represented by the Minister of National Defence and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of National

Defence has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister.

6.4 Term of Contract

6.4.1 Delivery Date

- A. All the deliverables must be received on or before 31 January 2019.

6.4.2 Delivery Points

- A. All items must be delivered to the following address:

Department of National Defence
25 CFSD Montreal
6363 Rue Notre Dame St E.
Montreal, Quebec H1N 2E9

6.4.3 Shipping Instructions

- A. Goods must be consigned and delivered to the destination specified in the contract, Incoterms 2010 "DDP Delivered Duty Paid" 25 CFSD Montreal, Montréal, Québec.
- B. The Contractor must deliver the goods to Canadian Forces (CF) Supply Depots by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Depot Traffic Section at the appropriate location shown below. The consignee may refuse shipments when prior arrangements have not been made.

25 CF Supply Depot Montreal
Montreal, Québec
E-mail: 25DAFCTrafficRDV@forces.gc.ca

6.4.4 Delivery and Unloading

- A. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.
- B. When making deliveries, sufficient personnel must be provided to permit unloading of any type of vehicle without the assistance of federal government personnel.
- C. At some sites, the delivery truck must be unloaded while parked at the curb. When material is placed on the sidewalk, it must be placed in proximity to the designated entrance so as to be readily accessible to transport by mechanical handling equipment utilized by site personnel.

6.5 Authorities

6.5.1 Contracting Authority

- A. The Contracting Authority for the Contract is:

Contact information to be detailed in the resulting contract

Name: _____
Title: _____
Organization: _____
Address: Department of National Defence
101 Colonel By Drive
Ottawa ON K1A 0K2

Telephone: _____
E-mail: _____

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

6.5.2 Technical Authority

- A. The Technical Authority for the Contract is:

[Contact information to be detailed in the resulting contract]

Name: _____
Title: _____
Organization: _____
Address: Department of National Defence (DND)
101 Colonel By Drive
Ottawa ON K1A 0K2

Telephone: _____
E-mail: _____

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

6.5.3 Contractor's Representative

[Contact information to be detailed in the resulting contract]

Name: _____
Title: _____
Address: _____

Telephone: _____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment

- A. In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, in Canadian Dollars, Incoterms 2010 "DDP Delivered Duty Paid" 25 CFSD Montreal, Montréal, Québec, as specified below for a cost of \$[value to be detailed in the resulting contract]. Customs duties are included and Applicable Taxes are extra:

(i) Firm Goods:

["Item" column to be updated in the resulting contract, if required]

Item	Number Required	All-Inclusive Fixed Unit Cost
TCI LIBERATOR III INTEGRATED TACP/JTAC COMMUNICATIONS SUITE, PN CTB3_U_ITJ32/LODB-AM-2-FDE-R, as per Annex A, Requirement	27	\$(price to be detailed in the resulting contract)

(ii) Optional Goods:

["Item" column to be updated in the resulting contract, if required]

Item	Estimated Number	All-Inclusive Fixed Unit Cost
TCI LIBERATOR III INTEGRATED TACP/JTAC COMMUNICATIONS SUITE, PN CTB3_U_ITJ32/LODB-AM-2-FDE-R, as per Annex A, Requirement	27	\$(price to be detailed in the resulting contract)

6.6.2 Limitation of Price

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

6.6.3 Method of Payment

A. Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- (i) 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;
- (ii) all such documents have been verified by Canada; and
- (iii) the Work delivered has been accepted by Canada.

6.6.4 Electronic Payment of Invoices - Contract

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

[List to be updated in the resulting contract]

- (i) Visa Acquisition Card;
- (ii) MasterCard Acquisition Card;
- (iii) Direct Deposit (Domestic and International);
- (iv) Electronic Data Interchange (EDI);
- (v) Wire Transfer (International Only); and
- (vi) Large Value Transfer System (LVTS) (Over \$25M).

[Clause to be removed if more than one responsive bidder]

6.6.5 Discretionary Audit

- A. The Contractor's certification that the price or rate is not in excess of the lowest price or rate charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both, is subject to verification by government audit, at the discretion of Canada, before or after payment is made to the Contractor.
- B. If the audit demonstrates that the certification is in error after payment is made to the Contractor, the Contractor must, at the discretion of Canada, make repayment to Canada in the amount found to be in excess of the lowest price or rate or authorize the retention by Canada of that amount by way of deduction from any sum of money that may be due or payable to the Contractor pursuant to the Contract.
- C. If the audit demonstrates that the certification is in error before payment is made, the Contractor agrees that any pending invoice will be adjusted by Canada in accordance with the results of the audit. It is further agreed that if the Contract is still in effect at the time of the verification, the price or rate will be lowered in accordance with the results of the audit.

6.7 Invoicing Instructions

- A. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
 - (i) The original and one (1) copy must be forwarded to the following address for certification and payment:

National Defence Headquarters (NDHQ)
Department of National Defence (DND)
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
c/o: [organization to be detailed in the resulting contract]
attn: [name to be detailed in the resulting contract]

6.8 Certifications and Additional Information

6.8.1 Compliance

- A. 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.

6.8.2 Canadian Content Certification

- A. The Contractor warrants that the certification of Canadian Content submitted by the Contractor is accurate and complete, and that the goods, services or both to be provided under the Contract are in accordance with the definition contained in clause A3050T (2014-11-27), Canadian Content Definition.
- B. The Contractor must keep proper records and documentation relating to the origin of the goods, services or both provided to Canada. The Contractor must not, without obtaining before the written consent of the Contracting Authority, dispose of any such records or documentation until the expiration of six (6) years after final payment under the Contract, or until settlement of all outstanding claims and disputes under the Contract, whichever is later. All such records and

documentation must at all times during the retention period be open to audit, inspection and examination by the representatives of Canada, who may make copies and take extracts. The Contractor must provide all facilities for such audits, inspections and examinations, and must furnish all such information as the representatives of Canada may from time to time require with respect to such records and documentation.

- C. Nothing in this clause must be interpreted as limiting the rights and remedies which Canada may otherwise have pursuant to the Contract.

6.9 Applicable Laws

- A. The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **Ontario [or as specified by the bidder in its bid, if applicable]**.

6.10 Priority of Documents

- A. 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:
- (i) The Articles of Agreement;
 - (ii) The General Conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);
 - (iii) Annex A, Requirement;
 - (iv) the Contractor's bid dated **[date to be specified in the resulting contract], as clarified on [date to be specified in the resulting contract, if required], and as amended on [date to be specified in the resulting contract, if required]**.

6.11 Defence Contract

- A. The Contract is a defence contract within the meaning of the *Defence Production Act*, R.S.C. 1985, c. D-1 (<http://laws-lois.justice.gc.ca/eng/acts/d-1/>), and must be governed accordingly.
- B. 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*.

6.12 Insurance

- A. 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.

6.13 Canadian Forces Site Regulations

- A. The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

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

- A. The Contractor is responsible for implementing a quality system appropriate to the scope of the work to be performed. It is recommended that the quality system be based on *ISO 9001:2008 "Quality management systems - Requirements."*

- B. The Contractor is responsible for performing or having performed all inspections and tests necessary to substantiate that the materiel or services provided conform to the drawings, specifications and the requirements of the contract. The Contractor must keep accurate and complete inspection records which must, upon request, be made available to the authorized Department of National Defence (DND) representative, who may make copies and take extracts during the performance of the Contract and for a period of one (1) year after the completion of the Contract.
- C. Despite the above, all materiel is subject to verification and acceptance by DND at destination. The authorized DND representative at destination may either be the consignee(s), the Technical Authority, or the Quality Assurance Authority.

6.15 Marking

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

6.16 Wood packaging materials

- A. All wood packaging materials used in shipping must conform to the [International Standards for Phytosanitary Measures No. 15: Regulation of Wood Packaging Material in International Trade \(ISPM 15\)](#).
- B. Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:
 - (i) D-98-08 - [Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States](#); and
 - (ii) D-13-01 – [Canadian Heat Treated Wood Products Certification Program \(HT Program\)](#).

6.17 Interchangeability

- A. Unless changes during the production run are authorized by the Contracting Authority, all equipment supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

6.18 Inspection and Acceptance

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

6.19 Excess Goods

- A. The quantity of goods to be delivered by the Contractor is specified in the Contract. The Contractor remains liable for any shipment in excess of that quantity whether the excess quantity is shipped voluntarily or as a result of an error by the Contractor. Canada will not make any payment to the Contractor for goods shipped in excess of the specified quantity. Canada will not return the said goods to the Contractor unless the Contractor agrees to pay for all the costs related to the return, including but not limited to administrative, shipping and handling costs. Canada will have the right to deduct such costs from any invoice submitted by the Contractor.

[To be updated in the resulting contract, if required]

ANNEX A - REQUIREMENT

ITEM	Part Number	DESCRIPTION
001	CTB3_U_ITJ32/ LODB-AM-2-FDE-R	<p>NSN/NNO: 5965-01-668-3826 NCAGE: 1MZZ8 NAME/NOM: TACTICAL COMMAND INDUSTRIES, INC</p> <p>TCI LIBERATOR III INTEGRATED TACP/JTAC COMMUNICATIONS SUITE (ITJCS) - Dual communications hearing protection and headset kit, complete with:</p> <ul style="list-style-type: none"> - TCI Headset Transport Bag 2ea (TCI-HTB-CT). - Liberator III Soldier System Tactical Headset (BTH Suspension), Left Side Mic, Red Secondary LED (L3_HSAMC_LODB-CLL-R). - TCI U Dual-Button PTT with Dual PRC Capability (NEW R.4 Version) FDE (L3_PTTAMC1.3-2-FDE). - PTT Clip (V-PTT-Clip1). - 14" Straight MBITR/PRC-152 FDE (L3_ACBL_P105/329-14S-FDE), quantity 2. - 5 Meter Straight Remote PRC Radio Cable (L3_ACBL_P105/329-180S). - 24" Coiled Manpack Cable (L3_ACBL_P105/329-24C-FDE). - Y Adapter for Radio Sharing (L3_ACBL_YCBL1.3). - NATO Headset Adapter (L3_NATO_AMC1.0). - TCI Modified H-250 Handset (L3_JTAC_H250/M2).