



National Defence

Défense nationale

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

MAT.DESProc.3-4.DOSE@forces.gc.ca

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).

Title/Titre Naval Antenna	Solicitation No – N° de l'invitation W8474-14488665b
Date of Solicitation – Date de l'invitation 19 March 2019	
Address Enquiries to – Adresser toutes questions à Bruce Boivin, DES Proc 3-4-2 101 Colonel By Dr, Ottawa ON K1A 0K2 MAT.DESProc.3-4.DOSE@forces.gc.ca	
Telephone No. – N° de téléphone 613-995-4885	FAX No – N° de fax
Destination See Herein (Annex D) Ci-Joint (annexe D)	

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.

Solicitation Closes – L'invitation prend fin

At – à : 14h00

On - le : 30 April, 2019

Delivery required - Livraison exigée	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 Security Requirements

There are no security requirements associated with this requirement.

1.2 Statement of Requirement

The requirement is detailed in Annex A.

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 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

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 (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modifications:

- a) Section 07, Delayed bids is deleted in its entirety - only applicable if electronic bids will be the only accepted method for suppliers to submit bids
- b) Section 20, Further Information is deleted in its entirety.

2.1.1 SACC Manual Clauses

This bid solicitation cancels and supersedes previous bid solicitation number W8474-14488665 dated 2018/10/11 with a closing of 2018/11/20 at 14h00 EDT. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

B3000T (2006-06-16) Equivalent Products
C0207C (2013-04-25) Basis of Payment
G1005C (2016-01-28) Insurance

2.2 Submission of Bids

- a) Unless specified otherwise in the RFP or otherwise directed by the Contracting Authority, bids must be submitted to the Department of National Defence organization by electronic mail by the date and time indicated on page 1 of the solicitation.

- b) **Electronic Submissions:** Individual e-mails that may include certain scripts, formats, embedded macros and/or links, or those that exceed five (5) megabytes may be rejected by Canada's e-mail system and/or firewall(s) without notice to the Bidder or Contracting Authority. Larger bids may be submitted through more than one e-mail. Canada will confirm receipt of documents. It is the Bidder's responsibility to ensure that their entire submission has been received. Bidders should not assume that all documents have been received unless Canada confirms receipt of each document. In order to minimize the potential for technical issues, bidders are requested to allow sufficient time before the closing date and time to confirm receipt. Bid documents submitted after the closing time and date will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 15 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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that bids must be gathered per section and separated as follows:

- Section I: Technical Bid (one electronic copy)
- Section II: Financial Bid (one electronic copy)
- Section III: Certifications not included in the Technical Bid (one electronic copy)

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

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

- a) Use 8.5 x 11 inch (216 mm x 279 mm) paper size;
- b) Use a numbering system that corresponds to the bid solicitation.
- c) Include a title page at the front of each volume of the bid that includes the title, date, bid solicitation number, bidder's name and address and contact information of its representative and include a table of contents;
- d) Soft copies will be accepted in any of the following electronic formats:
 - Portable Document Format (PDF)

- Microsoft Word 1997-2003 (.doc)

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex D Basis of Payment.

- a) Blank Prices: Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No Bidder will be permitted to add or change a price as part of this confirmation. Any Bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex C Electronic Payment Instruments, to identify which ones are accepted.

If Annex C Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

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

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06) Exchange Rate Fluctuation

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 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

The mandatory technical criteria is listed in Annex E.

4.1.2 Financial Evaluation

- a) Pricing: Bidders must submit their financial bid in accordance with the Basis of Payment provided in Annex D of this bid solicitation. The total amount of Applicable Taxes must be shown separately, if applicable. Unless otherwise indicated, Bidders must include a single, firm price in each cell requiring an entry in the pricing table.

4.2 Basis of Selection

- 4.2.1** A0031T (2010-08-16) Basis of Selection – Mandatory Technical Criteria: 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 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.

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

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](https://www.canada.ca/en/employment-social-development/canada/esdc/labour) 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 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Statement of Requirement

The Contractor must provide the items detailed at Annex A.

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

2010A 2018-06-21, General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

While delivery is requested by 180 days after contract award, the best delivery that could be offered is _____.

6.4.2 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex D of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Bruce Boivin
Title: Senior Procurement Officer
Organization: Department of National Defence
Directorate: DES Proc 3-4-2
Address: 101 Colonel By Drive, Ottawa, Ontario, K1A 0K2
E-mail address: MAT.DESProc.3-4.DOSE@forces.gc.ca

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

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: to be named at Contract award
Title: to be named at Contract award
Organization: to be named at Contract award

Address: to be named at Contract award
Telephone: to be updated at Contract award
E-mail address: to be updated at Contract award

The Technical Authority named above 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

The Contractor Representative for the Contract is:

Name: to be named at Contract award
Title: to be named at Contract award
Organization: to be named at Contract award
Address: to be named at Contract award
Telephone: to be updated at Contract award
E-mail address: to be updated at Contract award

6.6 Payment

6.6.1 Basis of Payment

C0207C (2013-04-25) Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified in contract. Customs and duties are excluded and Applicable Taxes are extra.

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

6.6.2 Multiple Payments

H1001C (2008-05-12) 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.

6.6.3 Electronic Payment of Invoices – Contract

As per Annex C, the Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

H5001C (2008-12-12) Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original must be forwarded to the address shown on page 1 of the Contract ('Address Enquiries to') for certification and payment.

6.8 Certifications and Additional Information

6.8.1 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.

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2018-06-21) General conditions: Goods (medium complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex D, Line Item Detail and Basis of Payment;
- (e) Annex E, Technical Evaluation Criteria
- (f) the Contractor's bid dated _____

6.11 Defence Contract

A9006C (2012-07-16) Defence Contract

6.12 SACC Manual Clauses

B7500C (2006-06-16) Excess Goods

ANNEX A: Statement of Requirement

1. SCOPE

1.1 Background

The AN/PRC-117F radio in Halifax Class ships is being updated to the AN/PRC-117G.

The AN/PRC-117G covers the same frequency range as the existing radio but has a different Antenna Port configuration. The output port frequency range (30MHz-512MHz) exceeds that of the VAS-1016/A low-band antenna (30MHz-108MHz) and will not allow use of the AN/PRC-117G across the entire operating frequency range.

1.2 Purpose

This document details the performance and technical requirements for the VAS-1016/A Broadband Vertical Dipole Antenna replacement. Any product submitted as equivalent to the specified replacement antenna (NSN 5985-12-387-0247, Rohde & Schwarz HK055S1 Omnidirectional Broadband Antenna) must meet the requirements listed below to qualify as equivalent.

1.3 Requirement Overview

This procurement is for a replacement antenna that will allow DND to take advantage of the entire AN/PRC-117G output port frequency range (30MHz-512MHz) by replacing the existing antenna with a Omni-Directional, Broadband antenna capable of operating in the marine environment across the full operating frequency range. The requirement is for quantity 26 in total.

1.4 Acronyms

The following acronyms shall apply to this document:

Acronym	Description
AN/PRC	Army/Navy Portable Radio Communications
DND	Department of National Defence
MHz	Megahertz
MTBF	Mean Time Between Failures
NSN	NATO Stock Number
VSWR	Voltage Standing Wave Ratio

2 REQUIREMENTS

2.1 Performance Requirements

Frequency Range. Must operate over the complete AN/PRC-117G operating frequency range of 30MHz-512MHz.

Radiation Pattern. Must be omnidirectional.

Polarization. Must be vertically polarised.

Power Rating. Must be rated for not less than 100 Watts CW over the complete operating frequency range of 30MHz-512MHz.

VSWR. VSWR rating over the complete operating frequency range of 30MHz-512MHz must be less than or equal to 3.0.

Input Impedance. Must be 50 Ohms.

MTBF. Must have a rated mean-time-between-failures of at least 100,000 hours.

2.2 Physical Requirements

Input Connector. Must be N-type.

Colour. Must be grey in colour.

Rigid State: Must not have a flexible, coil, or spring base.

2.3 Shipboard Environmental Requirements

Environment. Must demonstrate shipboard use.

Temperature. Must operate in temperatures ranging from at least -40 to 50 degrees C.

Wind Exposure. Must be rated for a maximum wind speed of not less than 100 knots (185 Km/h).

ANNEX B: SECURITY REQUIREMENTS CHECK LIST

There is no security requirement applicable to this Contract.

ANNEX C to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts 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);
- Large Value Transfer System (LVTS) (Over \$25M)

ANNEX D: Line Item Detail and Basis of Payment

Item #	Part Number	Description (include NSN when applicable)	Unit of Issue	Qty	Destination Address	Security Requirement
1	4067.0443.05 OR Equivalent	Passive Omni-Directional Broadband Antenna NSN: 5985-12-387-0247 OR Equivalent	EA	11	Base Logistics Officer CFB Esquimalt STN Forces, P.O. Box 17000 VICTORIA, BC V9A 7N2 CANADA	No
2	4067.0443.05 OR Equivalent	Passive Omni-Directional Broadband Antenna NSN: 5985-12-387-0247 OR Equivalent	EA	15	Formation Commander Maritime Forces Atlantic HMC Dockyard Bldg D-206 DOOR 1 thru 13 Halifax, NS B3K 5X5 CANADA	No
3		A copy of all applicable technical specifications and associated documentation for the Antenna.			<u>Hardcopy to:</u> DNCS 2-3-4 DGMEPM / ADM(Mat) 101 Colonel By Drive, Ottawa, ON K1A 0K2 CANADA AND/OR <u>Electronically to:</u> the Technical Authority	No

Item #	Part Number	NSN	Description	Estimated Delivery Date (EDD)	Qty	Firm Unit Price	Extended Price
1	4067.0443.05 OR Equivalent	5985-12-387-0247 OR Equivalent	Passive Omni-Directional Broadband Antenna		11	\$	\$
2	4067.0443.05 OR Equivalent	5985-12-387-0247 OR Equivalent	Passive Omni-Directional Broadband Antenna		15	\$	\$
3			Copies of all applicable technical specifications and associated documentation for the Antenna.			\$	\$
Shipping:							\$
Total:							\$

ANNEX E: Technical Evaluation Criteria

1.0 BASIS OF SELECTION

- a. To be declared responsive, a bid must:
 - (i) comply with all the requirements of the bid solicitation; and,
 - (ii) meet all mandatory criteria.
- b. Bids not meeting (i) and (ii) will be declared non-compliant.
- c. The complaint bid with the lowest evaluated price will be recommended for award of a Contract.

2.0 EVALUATION CRITERIA

It is the responsibility of the bidder to clearly identify those areas in the specifications and descriptive literature provided in their bid that support compliance with the mandatory requirements below. As per SACC B3000T (2006-06-16): 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 the bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

Criteria	Mandatory Requirement	Met/Not Met	Cross Reference
M1	<u>Frequency Range</u> : The proposed antenna must operate over the complete AN/PRC-117G operating frequency range of 30MHz-512MHz.		
M2	<u>Radiation Pattern</u> : The proposed antenna must be omnidirectional.		
M3	<u>Polarization</u> : The proposed antenna must be vertically polarized.		
M4	<u>Power Rating</u> : The proposed antenna input power must be rated for not less than 100 Watts CW over the complete operating frequency range (30MHz-512MHz).		
M5	<u>VSWR</u> : The proposed antenna's VSWR rating over the complete operating frequency range (30MHz-512MHz) must be less than or equal to 3.0.		
M6	<u>Input Impedance</u> : The proposed antenna nominal impedance must be 50 Ohms.		
M7	<u>MTBF</u> : The proposed antenna must have a rated mean-time-between-failures of at least 100,000 hours.		
M8	<u>Input Connector</u> : The proposed antenna connector must be N-type.		
M9	<u>Colour</u> : The proposed antenna must be grey in colour.		
M10	<u>Environment</u> : The vendor must demonstrate that the proposed antenna has been successfully implemented on a Naval ship for a minimum of 6 months within the last 5 years.		
M11	<u>Physical Requirement</u> : Must not have a flexible, coil, or spring base.		
M12	<u>Temperature</u> : The proposed antenna must operate in temperatures ranging from at least -40 to 50 degrees C.		
M13	<u>Wind Exposure</u> : The proposed antenna must be rated for a maximum wind speed of not less than 100 knots (185 Km/h).		

3.0 EVALUATION METHODOLOGY

The methodology to be used is listed below:

Criteria	Mandatory Requirement	Methodology
M1	<u>Frequency Range</u> : The proposed antenna must operate over the complete AN/PRC-117G operating frequency range of 30MHz-512MHz.	Must be clearly demonstrated in spec sheet.
M2	<u>Radiation Pattern</u> : The proposed antenna must be omnidirectional.	Must be clearly demonstrated in spec sheet.
M3	<u>Polarization</u> : The proposed antenna must be vertically polarized.	Must be clearly demonstrated in spec sheet.
M4	<u>Power Rating</u> : The proposed antenna input power must be rated for not less than 100 Watts CW over the complete operating frequency range (30MHz-512MHz).	Must be clearly demonstrated in spec sheet.
M5	<u>VWSR</u> : The proposed antenna's VSWR rating over the complete operating frequency range (30MHz-512MHz) must be less than or equal to 3.0.	Must be clearly demonstrated in spec sheet.
M6	<u>Input Impedance</u> : The proposed antenna nominal impedance must be 50 Ohms.	Must be clearly demonstrated in spec sheet.
M7	<u>MTBF</u> : The proposed antenna must have a rated mean-time-between-failures of at least 100,000 hours.	Must be clearly demonstrated in spec sheet.
M8	<u>Input Connector</u> : The proposed antenna connector must be N-type.	Must be clearly demonstrated in spec sheet.
M9	<u>Colour</u> : The proposed antenna must be grey in colour.	Must be clearly demonstrated in spec sheet.
M10	<u>Environment</u> : The vendor must demonstrate that the proposed antenna has been successfully implemented on a Naval ship for a minimum of 6 months within the last 5 years.	Must be clearly demonstrated and validated through Appendix 1 of Annex E.
M11	<u>Physical Requirement</u> : Must not have a flexible, coil, or spring base.	Must be visually demonstrated in spec sheet with clear coloured picture(s) of the antenna base and shaft.
M12	<u>Temperature</u> : The proposed antenna must operate in temperatures ranging from at least -40 to 50 degrees C.	Must be clearly demonstrated in spec sheet.
M13	<u>Wind Exposure</u> : The proposed antenna must be rated for a maximum wind speed of not less than 100 knots (185 Km/h).	Must be clearly demonstrated in spec sheet.

Solicitation No. - N° de l'invitation
W8474-14488665b
Client Ref. No. - N° de réf. du client
W84748SR15

Amd. No. - N° de la modif.
File No. - N° du dossier
W8474-18-SR15

Buyer ID - Id de l'acheteur
0180
CCC No./N° CCC - FMS No./N° VME

Date Removed from (insert Naval Ship name):

Confirmation that Antennas were not affected by ocean water:

Yes, the information above correctly describes the antennas that were successfully implemented on the (insert Naval Ship name).

Customer Reference Signature

