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**11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776**

Revision to a Request for a Standing Offer

Révision à une demande d'offre à commandes

National Individual Standing Offer (NISO)

Offre à commandes individuelle nationale (OCIN)

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Offer remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'offre demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Defence Communications Division. (QD)
11 Laurier St./11, rue Laurier
Place du Portage, Phase III, 8C2
Gatineau, Québec K1A 0S5

Title - Sujet VHF/UHF AM/FM Radios	
Solicitation No. - N° de l'invitation W8474-167196/D	Date 2017-07-31
Client Reference No. - N° de référence du client W8474-167196	Amendment No. - N° modif. 003
File No. - N° de dossier 039qd.W8474-167196	CCC No./N° CCC - FMS No./N° VME
GETS Reference No. - N° de référence de SEAG PW-\$\$QD-038-26366	
Date of Original Request for Standing Offer 2017-06-30	
Date de la demande de l'offre à commandes originale	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-08-09	
Address Enquiries to: - Adresser toutes questions à: Hussain, Danish	Buyer Id - Id de l'acheteur 039qd
Telephone No. - N° de téléphone (819) 420-4093 ()	FAX No. - N° de FAX (819) 934-0610
Delivery Required - Livraison exigée	
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE 101 COLONEL BY DRIVE K1A 0K2	
Security - Sécurité This revision does not change the security requirements of the Offer. Cette révision ne change pas les besoins en matière de sécurité de la présente offre.	

Instructions: See Herein

Instructions: Voir aux présentes

Acknowledgement copy required	Yes - Oui	No - Non
Accusé de réception requis	<input type="checkbox"/>	<input type="checkbox"/>
The Offeror hereby acknowledges this revision to its Offer. Le proposant constate, par la présente, cette révision à son offre.		
Signature	Date	
Name and title of person authorized to sign on behalf of offeror. (type or print) Nom et titre de la personne autorisée à signer au nom du proposant. (taper ou écrire en caractères d'imprimerie)		
For the Minister - Pour le Ministre		

THE FINAL DATE TO SUBMIT QUESTIONS IS 2 AUGUST 2017 at 14:00EDT. ANY QUESTIONS RECEIVED AFTER THIS DATE MAY NOT BE ANSWERED.

OFFERORS WHO INTEND TO SUBMIT AN OFFER MUST REQUEST ANNEX C AND ANNEX E FROM THE STANDING OFFER AUTHORITY AS SOON AS POSSIBLE.

The purpose of this amendment is to:

1. Modify Annex A – Statement of Requirement (SOR), Paragraph 1.3 ITAR/CTAT.
2. Modify Annex E – Compliance Matrix.
3. Extend the closing date of the Request for Standing Offer.
4. Respond to questions received from industry.

The following shall form part of the RFSO:

1. In Annex A – Statement of Requirement Paragraph 1.3 ITAR/CTAT :

Delete in its entirety.

Insert the following in its lieu;

For all items listed under this SO, the offeror must be familiar with ITAR/CTAT regulations and be certified to handle Controlled Goods. The offeror must be ready to work with the Technical Authority to determine and assign appropriate Demilitarization Code (DMC) for each item. This will require the offeror to have a thorough understanding of items being bid, to answer questions from the TA or have the ability to provide answers within 48 hours, in order to determine ITAR/CTAT and DMC requirements.

2. In Annex E – Compliance Matrix - Compliance with Annex A :

Item 1 - Vendor must provide ITAR/CTAT codes to TA.

Delete in its entirety.

3. At RFSO cover page :

Delete: Solicitation closes at 02:00PM on 2017-08-02.

Insert: Solicitation closes at 02:00PM on 2017-08-09.

Questions Received as of 11 July 2017 for Solicitation No W8474-167196/D

Q1. Reference: Annex B – Technical Specifications Para 2.7 Environmental Specifications

Will DND consider VHF/UHF AM/FM radios designed to MIL-STD-810D or MIL-STD-810E?

A1. DND will not accept testing done to MIL-STD-810D or E. Minimum acceptance testing level is MIL-STD-810F.

Q2. Reference: Annex B – Technical Specifications Para 2.5 (d) Immersion

Will DND consider A 1m immersion test versus 2m as sought by the RFSO?

A2. DND will not accept less than 2 m immersion test as laid out in the specification.

Q3. Will DND consider radio manufacturers from any NATO country or are the radio manufacturers and component sources limited to specific countries?

A3. Canada will accept goods originating from any NATO country as long as they meet specifications and the terms and conditions of the RFSO.

Q4. I request you to provide us the following details:

1) List of Items, Schedule of Requirements, Scope of Work, Terms of Reference, Bill of Materials required.

2) Soft Copy of the Tender Document through email.

3) Names of countries that will be eligible to participate in this tender.

4) Information about the Tendering Procedure and Guidelines

5) Estimated Budget for this Purchase

6) Any Extension of Bidding Deadline?

7) Any Addendum or Pre Bid meeting Minutes?

A4. Answers to all of the above questions can be found in the solicitation document which can be accessed at the following link: <https://buyandsell.gc.ca/procurement-data/tender-notice/PW-QD-038-26366>

Question Received as of 21 July 2017 for Solicitation No W8474-167196/D

Q5. Reference: Annex B – Technical Specifications Para 3.1.1

In regard to the present RFSO, the radio that you are asking for needs to cover the full band. Can we offer a radio that can covers the low band VHF (30-88MHz), VHF (136-174MHz) and UHF (330-520MHz).

Can you please explain why the radio has to do the entire 30-512 MHz in one radio?

A5. We are unable to reveal operational needs that have resulted in the 30 – 512 MHz requirement. The proposed breakdown of the frequency band will not fulfill DND's requirement and will be deemed non-responsive.

Question Received as of 26 July 2017 for Solicitation No W8474-167196/D

Q6. Reference: Annex A – SOW Para 2.2 Items 8 and 9

Our understanding for these two items is as follows:

- Programming Kit (item 8): This includes the hardware for programing the radio such as cable, or any other adapters but does not include the software application and does not include the computer which runs the programming applications.
- Programming Software (item 9): This includes the application in software to program the radio with all the parameters that are need for the radio operation. This item doesn't include any hardware.

If this is the RFSO's intent, why is it written in the Programming kit that it contains software, and if there is also a requirement for software in the Programming kit, what is the difference between the software programs in these two requirement items?

A6. The intent is to have separate copies of the software we can distribute without having to send in a kit for repair/upgrading. The kits would be complete including software on purchase. The separate software would allow DND to have flexibility after the initial purchase of programming kits.

Q7. Reference: Annex B – Technical Specifications Para 3.1 Table 1 Radio Requirements Item 4

Would selectable power from 0.25W through 5W be acceptable?

A7. Yes, this type of proposal would be acceptable.

Q8. Is this procurement restricted to companies from NATO-based countries?

A8. This procurement is not restricted to companies from NATO-based countries. Canada will accept goods originating from any country as long as they meet specifications and the terms and conditions of the RFSO.

All other terms and conditions of the RFSO remain unchanged.

See the attached revised Annexes. Revisions are displayed in green font.



ANNEX A

STATEMENT OF REQUIREMENT

VHF/UHF AM/FM HANDHELD RADIOS

AND

ANCILLARY EQUIPMENT

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1 GENERAL

This document is the Statement of Requirement (SOR) for a Standing Offer (SO) being put forward by the Department of National Defence (DND) for Very High Frequency (VHF) and Ultra High Frequency (UHF) Amplitude Modulation (AM) Frequency Modulation (FM) handheld radio systems to be used for command and control of air and ground assets.

1.1 Scope

The Offeror must satisfy the DND requirements for the supply of VHF/UHF AM/FM handheld transceiver capable of operating in the 30 – 512 MHz band.

1.2 General Description

The primary purpose of this requirement is to provide DND with a handheld transceiver that will provide line-of-sight two-way voice and data communications between personnel on the ground and aircraft, vehicles, fixed sites and other personnel equipped with VHF/UHF AM/FM 30 – 512 MHz radio equipment. P25 protocol is not a requirement of this RFSO but if provided, it will be accepted.

1.3 ITAR/CTAT

For all items listed under this SO, the offeror must be familiar with ITAR/CTAT regulations and be certified to handle Controlled Goods. The offeror must be ready to work with the Technical Authority to determine and assign appropriate Demilitarization Code (DMC) for each item. This will require the offeror to have a thorough understanding of items being bid, to answer questions from the TA or have the ability to provide answers within 48 hours, in order to determine ITAR/CTAT and DMC requirements.

1.4 Hazardous Material

All hazardous material must be clearly marked in all technical publications and bulletins by hazardous material and part number. Disposal instructions must be provided as an Annex to either the technical publication or the bulletin.

1.5 Discontinuation of Production

The Offeror must identify, to the Technical Authority (TA) and Standing Offer Authority, any item that is scheduled for discontinuation, throughout the life of the SO. Within one month of a decision to discontinue an item, the Offeror must identify to the TA, new components that are form, fit and functional replacements. This would allow the TA to procure extra units prior to production termination. The technical data, of the replacement items, must be forwarded to the TA for verification of acceptability.

2 REQUIREMENTS

2.1 Transceiver Package Requirements

The Offeror must deliver radio package/s on “as and when requested” basis. Each radio package must consist of:

<u>Item</u>	<u>Quantity</u>	<u>Description</u>
1	1	VHF/UHF AM/FM Handheld Transceiver;
2	1	Rechargeable Battery;
3	1	Antenna;
4	1	Carrying Case with belt clip or loop; and
5	1	Operating manual (English and/or French in electronic format.)

2.2 Ancillary Equipment Requirements

The Offeror must provide the following Ancillary equipment on “as and when requested” basis. These items may be purchased individually as supplemental ancillary equipment, as needed.

Item	Description	Specification
1	Battery Charger	Single Port
2	Battery Charger	Multi-Port
3	Microphone Set	Lapel Microphone
4	Microphone Set	Speaker Microphone
5	Microphone Set	Headset Microphone
6	Spare Batteries	Identical to battery that comes with the radio kit.
7	Radio	Transceiver only
8	Programming Kit	Containing software, cables, and all other accessories needed to make the kit complete and provide tools to fully program a transceiver with software.
9	Programming Software	For programming and control of the transceiver or other major components. Must be compatible with Microsoft Windows 7.

10	Carrying Case	Identical to accommodate radio unit issued with offered package.
11	Antenna	Identical to antenna issued with offered package.
12	Standard Cable	As per the radio design requirements.
13	Standard Connector	As per the radio design requirements.

2.3 Non-Essential Ancillary Equipment Requirements

With its offer, the Offeror must submit price and availability for the equipment shown in the below table. These items may be incorporated in the standing offer by the Standing Offer Authority.

Item	Description	Specification
1	Spare Batteries	Alternative sized and/or high power batteries
2	Carrying Case	All applicable varieties
3	Antennas	Omni -band or band specific
4	Special Tools	Identify and provide information with regards to any special tools that will be required for maintenance of the equipment as applicable.
5	Operational Waveforms	Should be capable of utilizing operational waveforms.
6	Encryption	Must have the ability to operate in encrypted mode using AES 256 built in. It must not be a CCI (Controlled Crypto Device). Software loaded.
7	Spare Parts Kit	Manufacturer's Recommended Spare Parts Kit for Field Level Repairs.

3 INFORMATION AND PUBLICATIONS

3.1 Technical Bulletins

The Offeror must provide Technical bulletins relating to modifications, repairs and operation of the equipment to the TA throughout the life of the SO. Bulletins are to be forwarded to the TA in MS-Word or PDF format and should be within 3 months of bulletin release.

3.2 Maintenance Manuals

The Offeror must provide Maintenance Manuals for all major equipment, such as transceivers, power supply and vehicle adapters. The manuals must provide as a minimum the following;

- a) Operation and Testing Detail: This manual must contain all applicable cautions and warnings, theory of operation and maintenance instruction, both preventative and corrective. It must be an all-inclusive and detailed concept of operation, testing and repair procedures.
- b) Block Diagram: An all-inclusive and detailed Block Diagram of the equipment, together with an accurate technical description, including that of any varying configurations with the appropriate connections must be included.
- c) Schematics: An all-inclusive Schematic Diagram of the equipment with all of the components and test points clearly indicated must be included.
- d) Sketches: Sketches or photographs showing the general configuration, dimensions, weight and layout must be included.
- e) Parts List: An all-inclusive Parts List, including electrical or mechanical description of each part, OEM part numbers, circuit references and associated costs must be included.
- f) Media: The manuals are to be in English or French and can be in either MS-Word 2003 or compatible or Adobe portable documents format (PDF) files.

4 EXTENDED WARRANTY

The Offeror must provide extended warranty. All extended warranty periods must contain the same conditions as the initial manufacturer's warranty. Offerors must provide warranty for 5 and 10 year periods. The extended warranty must be available for purchase at the time of equipment purchase, or any time after initial purchase until the expiry of the manufacturer's warranty.

5 GLOSSARY

AES 256 Advanced Encryption Standard 256 bit

AGA	Air Ground Air
AM	Amplitude Modulation
C	Celsius
CCI	Controlled Crypto Device
CTAT	Controlled Technology Access and Transfer
db	Decibel
DC	Direct Current
DES Proc	Directorate of Electronics Procurement
DND	Department of National Defence
FM	Frequency Modulation
ITAR	International Traffic in Arms Regulations
ISED	Innovation, Science and Economic Development Canada
JSCSS	Joint Strategic Communications Support Services
kHz	Kilohertz
MHz	Megahertz
OEM	Original Equipment Manufacturer
PC	Personal Computer
PDF	Portable Document Format
PPM	Parts Per Million
RF	Radio Frequency
SINAD	Signal-to-noise and distortion ratio
SOA	Standing Offer Authority
SOR	Statement of Requirements
TA	Technical Authority
UHF	Ultra High Frequency
VHF	Very High Frequency

ANNEX E - COMPLIANCE MATRIX						
COMPLIANCE WITH ANNEX A - STATEMENT OF REQUIREMENT						
Item No.	Description	Proposed Part No./s	Compliant or Non-Compliant	Proof of Compliance	Reference in Proposal (Document, Page No. Etc.)	Bidder's Comments
Reference Annex A						
1	Hazardous material must be clearly marked in all technical publications and bulletins by part number and material					
2	Manufacturer must identify, to the TA and Contracting Authority (CA), any item that is scheduled for discontinuation, throughout the life of the Standing Offer					
3	Manufacturer must offer extended warranty periods					
4	Technical bulletins relating to modifications, repairs and operation of the equipment must be provided to the TA throughout the mandatory lifetime support of the equipment					
5	Maintenance Manuals must be provided for all major equipment, such as transceivers, power supply and vehicle adapters					
6	Maintenance Manuals must provide operation and testing details, block diagrams, schematics, sketches and parts lists					

7	Each radio package must consist of an UHF AM Handheld Transceiver, rechargeable battery, antenna, carrying case and operating manual							
8	Transceiver must not be a CCI device							
9	The Offeror must provide Ancillary equipment as per Annex A - SOR.							
10	The Offeror must provide price & availability for the Non-essential Ancillary equipment with its offer.							

ANNEX E - COMPLIANCE MATRIX COMPLIANCE WITH ANNEX B - TECHNICAL SPECIFICATIONS						
Item No.	Description	Proposed Part No./s	Compliant or Non-Compliant	Proof of Compliance	Reference in Proposal (Document, Page No, Etc.)	Bidder's Comments
Reference Annex B						
1	Transceiver must come complete with a mounting harness/carrying case that is either strapped or buckled to a belt or webbing					
2	Equipment must be in low visibility non-reflective colours such as black or green					
3	Transceiver and power supply must be contained within an enclosed and hardened case that is ruggedly constructed so as to withstand shock and vibration					
4	On/Off Power Switch, Volume Control, Transmit Indicator, Squelch Control, Channel Selector, Low Battery Indicator, Backlit Keypad, Display Screen, Antenna Connector, PC Connector, and Push-To-Talk Switch must be on the Transceiver					
5	Transceiver must meet environmental conditions listed					
6	Transceiver must be capable of being operated with gloves					
7	Transceiver must adhere to EIA-603-1992 or MIL-STD-810G or MIL-STD-810F					
8	Transceiver must be capable of operating in the VHF Civilian and UHF Military Bands (30 to 512 MHz)					
9	Transceiver must be capable of working in AM and FM Mode					
10	Transceiver must have a minimum of 25 programmable pre-set channels					
11	Transmit power must be adjustable between 0.1 and 5.0 watts					
12	Transmit Audio Distortion must be < 12%					
13	Receive Sensitivity must be -116 dBm 12 dB SINAD or better					
14	Frequency stability must be ± 5 PPM					
15	Adjacent Channel Rejection must be ≥ 45 dB at ± 25 kHz at a minimum					
16	Receive Audio Distortion must be < 12% at rated audio power					

17	Must have an indication of battery charge level								
18	Must be powered by rechargeable battery								
19	Duty cycle must last a minimum of 8 hours based on 5/5/90 (transmit/receive/standby) usage								
20	Connectors must be immersion sealed to 2 meters								
21	Transceiver must be software driven with the flexibility to not only be capable of clear voice communications but also be adaptable to alternate modes through encryption or operational software								
22	All software used for programming/control must be identified in proposal.								
23	Radios must come equipped with all required software and DND must be granted functional use of the software.								
24	All software supplied must be compatible with Windows 7								
25	Must have a proven Mean Time Between Failures of a minimum of 25,000 hours								
26	Mean Time to Repair for level 1 corrective maintenance must be less than 10 minutes								
27	Ancillary equipment must be listed as separate items and must be available as part of the standing offer								