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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 2017-08-09
Client Reference No. - N° de référence du client W8474-167196	Amendment No. - N° modif. 005
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 2017-08-23	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
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 Accusé de réception requis	Yes - Oui <input type="checkbox"/>	No - Non <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 16 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 B – Technical Specifications.
2. Modify Annex E – Compliance Matrix.
3. Extend the closing date of the Request for Standing Offer.

The following shall form part of the RFSO:

1. In Annex B – Technical Specifications Paragraph 3.1 – Radio Characteristics :

At Item 8 – Adjacent Channel Rejection;

Delete: Must be ≥ 45 dB at ± 25 kHz at minimum.

Replace with: Must be ≥ 35 dB at ± 25 kHz at minimum.

2. In Annex B – Technical Specifications Paragraph 3.2 – Radio Support :

At Item 4 – Reliability;

Delete: Must have a proven Mean Time Between Failures of a minimum of 25,000 hours. Mean Time to Repair, for Level 1 corrective maintenance must be less than 10 minutes.

Replace with: Must have a proven Mean Time Between Failures of a minimum of 14,000 hours. Mean Time to Repair, for Level 1 corrective maintenance must be less than 10 minutes.

3. In Annex E – Compliance Matrix - Compliance with Annex B :

At Item 15;

Delete: Adjacent Channel Rejection must be ≥ 45 dB at ± 25 kHz at a minimum.

Replace with: Adjacent Channel Rejection must be ≥ 35 dB at ± 25 kHz at a minimum.

At Item 25;

Delete: Must have a proven Mean Time Between Failures of a minimum of 25,000 hours.

Replace with: Must have a proven Mean Time Between Failures of a minimum of 14,000 hours.

4. At RFSO cover page :

Delete: Solicitation closes at 02:00PM on 2017-08-16.

Insert: Solicitation closes at 02:00PM on 2017-08-23.

All other terms and conditions of the RFSO remain unchanged.

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



ANNEX B

TECHNICAL SPECIFICATIONS

VHF/UHF AM/FM HANDHELD RADIOS

AND

ANCILLARY EQUIPMENT

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1 General

Department of National Defence (DND) has a requirement for Handheld Very High Frequency (VHF) and Ultra High Frequency (UHF) Amplitude Modulation (AM) Frequency Modulation (FM) radios. This document will define DND's technical and physical requirements.

1.1 Scope

This Statement of Technical Specification identifies the performance and construction specifications of the Handheld VHF/UHF AM/FM Radios required by DND. The primary use of these radios will be Air to Ground and Ground communications in both VHF and UHF bands.

2 Mechanical Requirements

2.1 Transceiver Package

The transceiver package is listed at Annex A para 2.1.

2.2 Mounting and Configuration

- 2.2.1 The transceiver must come complete with a mounting harness/carrying case that is either strapped or buckled to a belt or webbing.
- 2.2.2 This equipment must be in low visibility non-reflective colours such as black or green.

2.3 Chassis Construction

The complete transceiver and power supply must be contained within an enclosed and hardened case that is ruggedly constructed so as to withstand shock and vibration (ref para 2.7 listed below).

2.4 Panel Arrangement

The following indicators, controls and switches, must be provided as a minimum on the transceiver:

- a) On/Off Power Switch;
- b) Volume Control;
- c) Transmit Indicator;
- d) Squelch Control;
- e) Channel Selector;
- f) Low battery Indicator;
- g) Backlit Keypad;
- h) Display Screen;

- i) Antenna Connector;
- j) PC Connector; and
- k) Push-To-Talk Switch.

2.5 Environmental Conditions

The transceiver and attachments must be capable of withstanding the following conditions;

- a) Temperature: Operating -30° to 60° C
Storage -20° to 60° C
- b) Humidity: 90%
- c) Altitude: 30,000 feet
- d) Immersion: 2 meters of water

2.6 Environmental Factors

All switches, knobs and keypads must be capable of being operated during extreme cold weather where the operator could be wearing heavy gloves.

2.7 Environmental Specifications

The Transceiver must adhere to EIA-603-1992 or MIL-STD-810G or MIL-STD-810F (Annex B, Section 4 – References).

3 Technical Requirements

3.1 Radio Characteristics

The Transceiver must be capable of operating in the VHF Civilian and UHF Military Bands. The Offeror must provide Proof of Compliance to substantiate that they meet these requirements.

Table I – Radio Requirements

Item	Description	Specification
1	Band	Selectable Range: 30 to 512 MHz
2	Mode	AM and FM
3	Channels	Minimum of 25 programmable pre-set channels
4	Transmit Power	Output must be adjustable between 0.1 and 5.0 watts
5	Transmit Audio Distortion	Must be < 12%

6	Receive Sensitivity	-116 dBm 12 dB SINAD or better
7	Frequency Stability	Must be $> \pm 5$ PPM
8	Adjacent Channel Rejection	Must be ≥ 35 dB at ± 25 kHz at minimum
9	Receive Audio Distortion	Must be $< 12\%$ at rated audio power
10	Battery Indication	Must have an indication of battery charge level
11	Power Source	Must be powered by rechargeable battery Duty cycle must last a minimum of 8 hours based on 5/5/90 (transmit/receive/standby) usage
12	Connectors	Must be immersion sealed, connectors must be capable of being submersed in up to 2 meters of water.

3.2 Radio Support

The 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. The Offeror must provide Proof of Compliance (OEM literature, brochure...etc.) to substantiate that they meet the requirements.

Table II – Radio Administration

Item	Description	Specification
1	Software	All software used for programming/control must be identified in the technical offer.
2	Software Installed	Radios must come equipped with all the required software
3	Software Compatibility	All software supplied must be compatible with Microsoft Windows 7.
4	Reliability	Must have a proven Mean Time Between Failures of a minimum of 14,000 hours. Mean Time to Repair, for Level 1 corrective maintenance must be less than 10 minutes.

3.3 Ancillary Equipment

Please refer to Section 2.2 of Annex A – Statement of Work for a full description of the Ancillary equipment.

3.4 Non-Essential Ancillary Equipment

The offered Non-essential ancillary equipment must be compatible with the offered radios.

Please refer to Section 2.3 of Annex A – Statement of Requirement for the list of Non-Essential Ancillary Equipment.

4 References

- a) Electronic Industries Alliance - <https://www.ihs.com/products/eia-standards.html>
- b) United States Military Standard MIL-STD-810G or MIL-STD-810F (Environmental Engineering Considerations and Laboratory Tests)

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					

Annex E

Compliance Matrix

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.)
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 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 ≥ 35 dB at ± 25 kHz at a minimum				
16	Receive Audio Distortion must be < 12% at rated audio power				

Bidder's Comments

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 14,000 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								