RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:

Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7 ième étage
Montréal
Québec
H5A 1L6
FAX pour soumissions: (514) 496-3822

LETTER OF INTEREST
LETTRE D'INTÉRÊT

Title - Sujet REMPLACEMENT SYSTÈME TELECOM RADIO	
Solicitation No. - N° de l'invitation 9F030-130555/B	**Date** 2014-10-14
Client Reference No. - N° de référence du client 9F030-13-0555	**GETS Ref. No. - N° de réf. de SEAG** PW-$MTA-309-12937
File No. - N° de dossier MTA-3-36352 (309)	**CCC No./N° CCC - FMS No./N° VME**
Solicitation Closes - L'invitation prend fin **at - à 02:00 PM** **on - le 2014-10-24**	**Time Zone** **Fuseau horaire** Heure Avancée de l'Est HAE
F.O.B. - F.A.B. **Plant-Usine:** ☐ **Destination:** ☑ **Other-Autre:** ☐	
Address Enquiries to: - Adresser toutes questions à: Paradis, Mary	**Buyer Id - Id de l'acheteur** mta309
Telephone No. - N° de téléphone (514) 496-3874 ( )	**FAX No. - N° de FAX** (514) 496-3822

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

AGENCE SPATIALE CANADIENNE
6767 ROUTE DE L AEROPORT
9F030- SÉCURITÉ ET INSTALLATIONS
ST HUBERT
Québec
J3Y8Y9
Canada

Comments - Commentaires

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Delivery Required - Livraison exigée .	**Delivery Offered - Livraison proposée**

Vendor/Firm Name and Address
Raison sociale et adresse du fournisseur/de l'entrepreneur

Telephone No. - N°de téléphone
Facsimile No. - N° de télécopieur

Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)
Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)

Signature **Date**

Issuing Office - Bureau de distribution

Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7 ième étage
Montréal
Québec
H5A 1L6

Canada

Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM Destination	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	REMPLACEMENT DU SYSTÈME TELECOM RA DIO REMPLACEMENT DU SYSTÈME TELECOM RADIO. REQUIS LES PIÈCES ET MAIN D'OUEVRE POUR LE REMPLACEMENT DU SYSTÈME DE TÉLÉCOMMUNICATION RADIO APPARTENANT À L'AGENCE SPATIALE DU CANADA, AU CENTRE SPATIAL JOHN H. CHAPMAN, ST-HUBERT (QUEBEC). • SELON L'ANNEXE 'A' - BESOIN , CI-JOINT.	9F030	9F030	1	Chaque	$	XXXXXXXXXX	.	

The clauses document is attached.

This Letter of Interest (LI) cancels and supersedes previous bid solicitation number 9F030-13-0555/A , dated 2014-07-15 , with a closing of 2014-10-24 , at 14H00 EST. A debriefing or feedback session will be provided upon request to bidders who bid on the previous solicitation.

Letter of Interest (LOI)

TITLE: REPLACEMENT OF EXISTING RADIO TELECOMMUNICATION SYSTEM

1. Purpose and Nature of the Letter of Interest (LOI)

Public Works and Government Services Canada (PWGSC) is requesting Industry feedback regarding the performance specifications for the modernization of the Radio Telecommunication System for the Government of Canada , the Canadian Space Agency located at St. Hubert, Qc. Required for the John H. Chapman Space Center.

The objectives of this LOI are to:
. Collect information regarding a commodity/service
and
. to help develop a potential RFP.

This LOI is neither a call for tender nor a Request for Proposal (RFP). No agreement or contract will be entered into based on this LOI. The issuance of this LOI is not to be considered in any way a commitment by the Government of Canada, nor as authority to potential respondents to undertake any work that could be charged to Canada. This LOI is not to be considered as a commitment to issue a subsequent solicitation or award contract(s) for the work described herein.

Although the information collected may be provided as commercial-in-confidence (and, if identified as such, will be treated accordingly by Canada), Canada may use the information to assist in drafting performance specifications (which are subject to change) and for budgetary purposes.

Respondents are encouraged to identify, in the information they share with Canada, any information that they feel is proprietary, third party or personal information. Please note that Canada may be obligated by law (e.g. in response to a request under the Access of Information and Privacy Act) to disclose proprietary or commercially-sensitive information concerning a respondent (for more information: http://laws-lois.justice.gc.ca/eng/acts/a-1/).

Participation in this LOI is encouraged, but is not mandatory. There will be no short-listing of potential suppliers for the purposes of undertaking any future work as a result of this LOI. Similarly, participation in this LOI is not a condition or prerequisite for the participation in any potential subsequent solicitation.

Respondents will not be reimbursed for any cost incurred by participating in this LOI.

The LOI closing date published herein is not the deadline for comments or input. Comments and input will be accepted any time up to the time when/if a follow-on solicitation is published.

2. Background Information:

The Canadian Space Agency wishes to modernize the John H. Chapman Space Center communication system with the aim of improving the quality of its communications, of complying with the new bandwidth requirements, and of modernizing the radio equipment of users according to the requirements identified.

This document is the result of the assessment of the actual radio communication requirements of five (5) Space Centre user groups.

3. Potential Work Scope and Constraints:

The intended method of supply is a contract.
The number of potential winning bidders: 1 only
The quantities are the following:
Repeaters: 2 each
Portable model 1: 14 each
Portable model 2: 34 each
Portable model 3: 12 each
Bases: 2 each
(Other details in attached Annex 'A' – Requirement)

4. Legislation, Trade Agreements, and Government Policies:

The following is indicative of some of the legislation, trade agreements and government policies that could impact any follow-on solicitation:

a) Agreement on Internal Trade (AIT) – does not apply
b) North American Free Trade Agreement (NAFTA) – does not apply
c) World Trade Organization – Agreements on Government Procurement (WTO-AGP) – does not apply
d) Federal Contractors Program for Employment Equity (FCP-EE) – does apply

5. Schedule:

In providing responses, the following schedule should be utilized as a baseline:

- Letter of Interest (LOI) - October 2014

6. Important Notes to Respondents:

Interested Respondents may submit their responses to the PWGSC Contracting Authority, identified below, preferably via email:

Name: Mary Paradis
Title: Contracting officer
Public Works and Government Services Canada
Acquisitions Branch
Directorate: Quebec region
Address: 800 rue de la Gauchetière ouest, 7th Floor, Montreal, Qc (H5A 1L6)
Telephone: (514) 496-3874
Facsimile: (514) 496-3822
E-mail: mary.paradis@pwgsc.gc.ca

A point of contact for the Respondent should be included in the package.

Changes to this LOI may occur and will be advertised on the Government Electronic Tendering System. Canada asks Respondents to visit Buyandsell.gc.ca regularly to check for changes, if any.

7. Closing date for the LOI/RFI:

Responses to this LOI are to be submitted to the PWGSC Contracting Authority identified above, on or before :

October 24, 2014

8. See Annex 'A' – Requirement

ANNEX 'A' - REQUIREMENTS

Introduction:

The CSA wishes modernize the John H. Chapman Space Centre communication system with the aim of improving the quality of its communications, of complying with the new bandwidth requirements, and of modernizing the radio equipment of users according to the requirements identified.

This document is the result of the assessment of the actual radio communication requirements of five (5) Space Centre user groups.

Description of the existing system:

The existing radio communication system is a conventional broadband (25 KHz) analog modulation system with two duplex frequencies, including two repeaters connected to a filtration and distributed antenna array in the John H. Chapman Space Centre. This system currently provides adequate radio coverage both inside all the buildings as well as on the outdoor grounds of the centre. The system infrastructure consists of the following components:

- Two UHF/100W analog repeaters;
- Two controllers;
- One TX-RX manufactured filtration system, T-Pass model;
- A distributed antenna array comprised of coaxial cables, six Bluewave model 421 and 422 antennas and five power splitters.

Currently, the CSA operates two duplex channels as well as a simplex frequency for their radio operations.

- Channel 1: 460.7 MHz / 465.7125 MHz;
- Channel 2: 460.125 MHz / 465.1375 MHz;
- Simplex channel: 469.5 MHz.

Description of the system required:

The radio communication system must be a digitally modulated Dynamic Access system with frequencies including the radio equipment that will be connected to the filtration and the distributed antenna array of the existing coverage.

Any radio equipment identified and provided in this project must be homologated and include an Industry Canada certification number as required by the Radio communication Act and the Radio communication Regulations.http://laws-lois.justice.gc.ca/fra/lois/R-2/ http://laws-lois.justice.gc.ca/fra/reglements/DORS-96-484/. The certification numbers must be provided when submitting the tender in the price grid.(The price grid is not included for this exercise).

The system must meet the required minimum characteristics and be made up of the following components:

The repeaters:

The system must consist of two (2) repeaters. Each repeater must be equipped with its own battery to enable an autonomous minimum 8-hour operation in case of a power supply failure. The two (2) repeaters will be dedicated to voice and must allow access to 4 simultaneous voice channels, which provides the desired channel availability. The system must allow dynamic channel access to all users.

Essential Criteria:

- Allows up to four (4) simultaneous communications (two per frequency)
- Rapid access dynamic path assignment (**Full *Trunking***)
- Automatic number identification (*PTT ID*)
- Call Alert
- Group Call, Basket Group and Individual-private Call
- Emergency alerts sent over a selected group
- "Text and e-mail" messaging support
- Support of telemetry and other data transmission applications
- "Isolated worker" function support
- Remote radio deactivation
- Partial fault tolerance

Filtration:

The existing filtration should be reused. The successful tenderer will be responsible for tuning the filtration system. In the event of a change of frequencies, this filtration will have to be re-tuned.

Coverage system:

The existing system of antennas connected to the repeaters must be reused.

Proceedings with Industry Canada:

At the beginning of the mandate, the successful tenderer must submit an engineering technical submission to Industry Canada on behalf of the CSA for submitting the radio licence applications for the required frequencies.

LIST OF THE DIGITAL RADIO SYSTEM EQUIPMENT

Radio equipment repeater system:

Repeaters:

Essential criteria:

- 2 UHF repeaters
- 2 booster batteries with case for 8 hours of battery life
- Frequency range: 403-470 MHz
- Channel spacing: 12.5 MHz
- Dimensions: must be installable on a standard equipment rack, 48.5 cm wide x 42 cm deep.
- Electrical power supply: 100-240 V a.c. (13.6 V d.c.)

User radio equipment:

Radio equipment compatible with the system:

The CSA has identified requirements for three models of radio equipment that must all be compatible with the system and must respond to the different specific criteria of the industrial environment, and possess the following minimum characteristics:

Note: *The dimensions and maximum weights appearing in this quote have been established on the basis of the current equipment. The users have clearly established that the new equipment* ***must*** *be smaller than the existing equipment.*

Portable model # 1:

Portable model #1 will be used by a single communication group. It must be able to make individual calls, display the caller, connect to users in a high-noise environment, and send them adjustable fixed level alarms that don't depend on the variable volume level of the radio. This radio model must be resistant to dust and immersion.

Essential criteria:

- Digital UHF portable
- 403-470 MHz frequencies
- 12.5 kHz channel spacing
- Minimum imperviousness level: IP57
- Maximum dimensions and weight with battery
  - 137mm X 57mm X 44 mm (height X width X depth)
  - 470 g
- Colour display
- Short UHF antenna
- Thin lithium-ion battery
- Belt clip attachment
- Integrated Bluetooth audio
- "Man-down" function
- Call Alert
- Ready for text and data messaging

Accessories included:

- Rapid charger
- Spare battery

Portable model # 2:

Portable model #2 will be used by three communication groups with extended coverage. It must be able to make individual calls and display the caller. Portable model #2 must be thin and light; it must be easily worn under a jacket in order to support surveillance operations. This radio model must be resistant to dust and water splashing.

Essential criteria:

- Digital UHF portable
- 403 - 470 MHz frequency
- 12.5 kHz channel spacing
- Minimum imperviousness level: IP 54

- Maximum dimensions and weight with battery
  - 127.5mm X 61.5mm X 45 mm (height X width X depth)
  - 370 g
- Colour display
- Very short UHF antenna (25 to 30 mm maximum)
- Thin lithium-ion battery
- Integrated Bluetooth audio
- Vibration mode
- Belt support
- Ready for text and data messaging

Accessories included:

- Rapid charger
- Multiple charger

Portable model # 3

Portable model #3 will be used by two communication groups. It must be robust, compact and lightweight with keys that are easy to use. Its connector must allow quick connection of the accessories without tools. This radio must be resistant to dust and rain.

Essential criteria:

- Digital UHF portable
- 403-470 MHz frequencies
- 12.5 kHz channel spacing
- Minimum imperviousness level: IP 55
- Maximum dimensions and weight with battery
  - 137mm X 57.5mm X 44 mm (height X width X depth)
  - 470 g
- Short UHF antenna
- Thin lithium-ion battery
- Monochrome screen
- Belt clip attachment

Accessories included:

- Rapid charger
- Multiple charger
- Micro-loudspeaker
- Spare battery

Bases:

Note: *The maximum dimensions that appear in this specification were established on the basis of the space available for installation in the control room console.*

Essential criteria:

- Separate adapter for control head
- Programmable buttons
- Control head with display
- 403-470 MHz frequencies
- 12.5 kHz channel spacing
- Maximum control head dimensions 55mm x 180mm x 80 mm (height X width X depth)

Accessories:

- Power supply and control cables extended 5 meters
- Table microphone
- Magnetic base antennas
- Power supply
- Under mount

List of equipment required by sector

Security service:

- Ten (10) model #3 portables with the following accessories:
  - Ten (10) spare lithium-ion batteries
  - Ten (10) micro-loudspeakers
  - Ten (10) belt attachments (clips)
  - One (1) six (6) slot multi-charger

- Four (4) model #2 portables with the following accessories:
  - Four (4) spare lithium-ion batteries
  - Four (4) single chargers
  - Four (4) belt attachments (clips)

- Two (2) bases with the following accessories:
  - Two (2) power supplies
  - Two (2) magnetic-based antennas
  - Two (2) table microphones
  - Under mount
  - Power supply and control cables extended 5 meters

Facilities:

- Fourteen (14) model #1 portables with the following accessories:
  - Fourteen (14) spare lithium-ion batteries
  - Fourteen (14) belt attachments (clips)
  - Fourteen (14) single chargers

- Six (6) model #2 portables with the following accessories:
  - Six (6) spare lithium-ion batteries
  - Six (6) belt attachments (clips)
  - Six (6) single chargers

Communications:

- Twelve (12) model #2 portables with the following accessories:
  - Twelve (12) spare lithium-ion batteries
  - One (1) six (6) slot multi-charger
  - Six (6) individual chargers
  - Twelve (12) belt attachments (clips)

Shipping / Receiving:

- Two (2) model #3 portables with the following accessories:
  - Two (2) spare lithium-ion batteries
  - Two (2) individual chargers
  - Two (2) belt attachments (clips)

Information Technology:

- Twelve (12) model #2 portables with the following accessories:
  - Twelve (12) spare lithium-ion batteries
  - Twelve (12) belt attachments (clips)
  - One (1) case with strap
  - Twelve (12) individual chargers

Operating modes by sector:

Security service:

- Will use a single communication group with extended coverage.
- The availability of channel accessibility is very important.
- The agents use micro-loudspeakers with headsets
- The control must respond to requests from other sectors on a daily basis
- On occasion, will use a simplex channel.
- The agents must always be able to operate everywhere inside the buildings as well as on the Space Centre terrain.

Facilities:

- Will use a single communication group with extended coverage.
- Will on occasion, use a simplex pathway channel.
- Must be able to talk to security / control on a daily basis
- Make individual calls
- Caller display
- Do not use accessories
- Connect to users in a high-noise environment, and send them adjustable fixed level alarms that don't depend on the variable volume level of the radio.

Communications Sector:

- Will continue to use the simplex frequency that was dedicated to them.

- The successful tenderer must apply for a Canada-Wide simplex frequency
- Will communicate with Control or the other sectors as required

IT Sector:

- Will use a duplex pathway channel (via repeater) which will be dedicated
- Will not communicate with Control or the other sectors

Shipping / Receiving Sector:

- Will use a single communication group with extended coverage.
- Will communicate with Control as required

Successful tenderer's responsibilities:

The successful tenderer will be responsible for the installation, the complete configuration of the proposed radio communication system, the quality of the radio coverage inside the John H. Chapman Space Centre buildings, the configuration, programming, delivery, and installation of all the equipment and hardware necessary for the installation, and shall, at the end of the project, carry out performance tests on the entire system in order to demonstrate that the performance of the new system is at least equal to, if not better than the current system.

Installation of the new system:

- The successful tenderer will install the repeaters as well as the booster batteries in the existing repeater cabinet.
- He will program the repeaters, will adjust the power according to the licences issued by Industry Canada and will verify performance, and will conduct the conformity tests associated with the technical specifications after the installation.
- He will install two separate control heads for the bases in the Control Room as well as the bases and their power supply in the existing cabinet intended for this purpose. He will pass the control and power supply wiring from the control heads to the bases and will install the magnetic base antennas at a safe distance from people working in this area.
- He will dismantle the old repeaters as well as the two bases, the power supply, the control heads and the antennas.

Proceedings with Industry Canada:

At the beginning of the mandate, the successful tenderer must deposit an engineering technical submission with Industry Canada on behalf of the CSA in order to obtain the radio licenses that are required for the operation of the new digital radio system. These applications must include the technical details that reflect the installations of all the system components. It must noted that any radio equipment provided must be homologated and include an Industry Canada certification number as required by the Radio communication Act and the Radio communication Regulations. The certification numbers must be provided when submitting the tender in the price grid (The price grid is not included for this exercise).

Filtration:

It is likely that the same frequencies can be reused in narrow band digital mode. The existing filtration should be reused. It must be calibrated to ensure that it meets the manufacturer's optimal technical performance. In the event of a change of frequencies, it will also have to be calibrated to meet the manufacturer's optimal technical performance with the new frequencies.

The successful tenderer must provide the technical measurement documents demonstrating compliance with the manufacturer's standards.

The distributed antenna array:

The system of antennas connected to the existing repeaters must be checked, measured and must be reused. The successful tenderer must provide the technical measurement documents demonstrating compliance with the optimal performance standards. The successful tenderer will, among other things, verify the indoor and outdoor antennas, the coaxial cables, the power splitters and the connectors.

The radio coverage:

The successful tenderer will conduct signal surveys in all the internal building spaces and on the outdoor grounds of the centre. He must ensure that the signal measured reflects the expected optimal performance conditions.

User training:

The successful tenderer will provide two on-site training sessions for a maximum of 20 CSA employees. This training will cover the different modes of operation of the various equipment models and a demonstration of the types of calls.