



**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**

**Bid Fax: (819) 997-9776**

**SOLICITATION AMENDMENT  
MODIFICATION DE L'INVITATION**

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

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation 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

<b>Title - Sujet</b> TIC3 Air - Ground/Air/Ground (G/A/G) TIC3 Air - Ground/Air/Ground (G/A/G) System Upgrade	
<b>Solicitation No. - N° de l'invitation</b> W8475-235517/A	<b>Amendment No. - N° modif.</b> 016
<b>Client Reference No. - N° de référence du client</b> W8475-235517	<b>Date</b> 2023-10-19
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$QD-028-29137	
<b>File No. - N° de dossier</b> 028qd.W8475-235517	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 03:00 PM</b> Eastern Daylight Saving Time EDT <b>on - le 2023-10-27</b> Heure Avancée de l'Est HAE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Garate, Oscar	<b>Buyer Id - Id de l'acheteur</b> 028qd
<b>Telephone No. - N° de téléphone</b> (873) 355-3354 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>



## REQUEST FOR PROPOSAL

**W8475-235517**

**Air Traffic Management (ATM) Ground/Air/Ground (G/A/G) radios**

### AMENDMENT # 16

#### Q&As # 5

#	Document	Question	Answer
56	Appendix A1 - Table A1-31	The ATM Filter Specification states the line Isolation is required to be >30dB. Normally a range is included with this figure.  Can you confirm that a spec of >30db @ $\pm 2\%$ f0 would be acceptable?	Yes, 30 dB $\pm 2\%$ is acceptable.
57	Appendix A1 - ATMTS.32	You already amended some of ATMTS.32 in line with ETSI. In accordance with ADGS/ATMGS 10, para 1c, would you agree to also accept ATMTS.32 1b and ATMTS.32 2b in line with ETSI standards EN 300 676-2 and ETSI EN 302 617? (i.e. 15 dB at 100 Hz in both cases)?	Yes, with justification or explanation in relation to the applicable standard.
58	Appendix A1 - ATMTS.41	This spec requires a narrower bandwidth than the ETSI standard which is successfully used in the crowded European airspace. In accordance with ADGS/ATMGS 10, para 1c, would compliance with the ETSI standards EN 300 676-2 and EN 302 617 (as per the below) also be considered acceptable? 1. VHF: - 6 dB 11kHz - 80 dB 25kHz UHF: - 6 dB 11kHz - 60 dB 25kHz 2. VHF: - 6 dB 3.5kHz - 70 dB 8.33kHz - 80 dB 25kHz	The applicable ETSI standard is acceptable, but the Bidder must also provide the specifications at the frequency test points shown.
59	Appendix A1 - ATMTS.46	In accordance with ADGS/ATMGS 10, para 1c, would compliance in line with ETSI standards EN 300 676-2 and EN 302 617 (as per the below) also be considered acceptable? VHF / UHF (25 kHz spacing): 1.a. 150 Hz, >15dB 1.b. 300 Hz to 3400 Hz: +1dB/-3dB 1.c. 5kHz, $\geq 30$ dB  VHF (8.33 kHz spacing): 2.a. 150 Hz $\geq 15$ dB 2.b. 300 Hz to 3400 Hz, +1dB/-3dB 2.c. 3.2 kHz, $\geq 25$ dB	The applicable ETSI standard is acceptable, but the Bidder must also provide the specifications at the frequency test points shown.
60	Appendix A1 - ATMTS.63	Referring to Q59:  In accordance with ADGS/ATMGS 10, para 1c, would a modulation depth of 30% to 90% in line with ETSI standards EN 300 676-2 and EN 302 617 also be acceptable?	Yes, with justification or explanation in relation to the applicable standard.



61	Appendix A1 - ATMTS.32	You already amended some of ATMTS.32 in line with ETSI. In accordance with ADGS/ATMGS 10, para 1c, would you agree to also accept ATMTS.32 1b and ATMTS.32 2b in line with ETSI standards EN 300 676-2 and ETSI EN 302 617? (i.e. 15 dB at 100 Hz in both cases)?	The applicable ETSI standard is acceptable, but the Bidder must also provide the specifications at the frequency test points shown.
62	Appendix A1 - ADTS.39	Given the lightning protection provided on antenna systems, is $\geq +30$ dBm acceptable (max. level applied without damage).  Is a compliance with ETSI Standard acceptable?	Compliance to an applicable ETSI standard is acceptable with technical justification and clarification regarding any deviation.
63	Appendix A1 - ADTS.50	Instead of a S/N level of 5 dB to 20 dB, would a setting range of 6 dB to 20 dB be acceptable?  Is a compliance with ETSI standard acceptable?	Canada has determined that the S/N level setting can be range-bound. Therefore, the following amendment is made.  Squelch audio characteristics. The adjustment range must be -110 dBm to -55 dBm in increments of 1 dB or lower; for a S/N level of 5 dB +/-1 dB to 20 dB; or 55 dB +/-1 dB below a 0 dBm reference when the receive signal is below the squelch threshold.  Compliance to an applicable ETSI standard is acceptable with technical justification and clarification regarding any deviation.
64	Annex F - PR-AD-11	Suggested that the requirement be updated to indicate that radios should be able to transmit at full output power into a VSWR of 2.0:1, for the full point score. Scoring could be reduced to $((VSWR-1)*20)$ , where VSWR is less than 2.0:1, and 20 points for VSWR of 2.0:1 or higher.	The requirement states that the mandatory VSWR is 2:1 and this is considered by Canada to be the marginally acceptable specification for the G/A/G AD Radio System while accounting for in-service variation or degradation before maintenance. Canada will not accept a VSWR worse than that.
65	Appendix A1 - ATMTS.3	Subclause 2: It is our understanding the ED-139 has never been officially released, meaning it does not exist. Can you please confirm and possibly remove the requirement from ATMTS.3?	Please note that ATMTS.3 should be the same as ADTS.3. Hence, the following amendment will be made to ATMTS.3:  The ATM Radio Transceiver Voice-Over-Internet Protocol



			<p>(VoIP) requirements:</p> <ol style="list-style-type: none"><li>1. The VoIP implementation must comply with ED-137B Part A for VoIP AD Radio Systems.</li><li>2. The VoIP voice quality and performance standards must meet the EUROCONTROL VoIP Implementation and Transition Expert Group (VOTE) standard for VoIP ATM Components and Systems.<ol style="list-style-type: none"><li>a. Appropriate test reports and certificates must be provided as verification before or at Factory Acceptance Testing.</li></ol></li><li>3. IAW ED-138 VoIP specifications, the ATM Radio must be capable of employing the use of G.711 data compression.</li><li>4. IAW ED-138 VoIP specifications, the ATM Radio should be capable of employing the use of G.729 data compression.<p>(Note: some ATM sites will have limited channel bandwidth and, thus, will require the use of the higher compression G.729 codec.).</p></li><li>5. A minimum of 1 VoIP connector must be supplied on the ATM Radio Transceiver for connection to a Canada IP Network switch.</li></ol>
66	Appendix A1 - ATMTS.48	For a VoIP based radio using digital signals for communication., it is expected that sub-clauses 2, 3a and 3b are not relevant for digital signals. Can you please confirm?	<p>Yes, Canada confirms that sub-classes 2, 3a and 3b are not relevant. An amendment will be published</p> <p>Note that the bidder is encouraged to provide any other relevant performance</p>



			metric for digital signals as applied to VoIP.
67	Appendix A1 - SATS.11	It is not clear what could be configured via the web browser regarding a handset. Typically, only volume could be adjusted, but the user does that locally while using the handset. Would you consider removing this web browser requirement as a mandatory requirement, especially since the web browser itself is not a mandatory requirement?	Acknowledged. An amendment will be made to remove part (c).
68	Appendix A1 - ADTS.39	Is a compliance with ETSI standard acceptable?	Compliance to an applicable ETSI standard is acceptable with technical justification and clarification regarding any deviation.
69	Annex E1 - Section 4.1.1	<p>In Annex B – the Basis of Payment description requires a bidder to provide pricing into defined sections: 1.1.1 Deliverables, 1.1.2 ILS, 1.1.3 Optional Deliverables, 1.1.4 Optional ILS.</p> <p>In Annex E1, Para 1.1.9 specifies that the ‘Contract Price’ includes the value of the contract and any exercised options.</p> <p>In the ISED provided excel spreadsheet (En 4 of 5.xlsx) it used the term “Anticipated Overall Bid (For Reference)” in cell D3 in the Scoring Model tab but it doesn’t provide clarity on which number to use</p> <p>Questions:</p> <p>1- Are we correct to assume that at time of proposal submission, DND won’t have ‘exercised’ any options yet in the sense of Annex E1 Para 1.1.9? Therefore ‘Contract Price’ and “Anticipated Overall Bid (For Reference)” value should be the baseline value as defined in Annex B Section 1.1.1 ?</p> <p>2- If not, how does the “Anticipated Overall Bid (For Reference)” value relates to pricing in Annex B?</p> <p>a. Baseline only ? (Section 1.1.1 and 1.1.2)</p> <p>b. Baseline and optional equipment ? (Section 1.1.1, 1.1.2, 1.1.3) ?</p> <p>c. Baseline and optional equipment and optional labor rates ?</p> <p>3- For the ITB Commitment taken at time of proposal submission, which “Anticipated Overall Bid (For Reference)” value should be used?</p>	<p>Q1: Yes, please note that options would not yet be exercised and would only possibly be exercised sometime after contract award. Contract Price is as defined in the ITB Ts&amp;Cs, which they have highlighted.</p> <p>Q2: This spreadsheet is provided as a tool for Bidders. Bidders are to provide their bids on the Mandatory and Rated criteria certificates in the Bidder Instructions. The anticipated overall bid refers to Bid Price.</p> <p>Q3: Bidders are to provide their bids on the Mandatory and Rated criteria certificates in the Bidder Instructions.</p>

**All other Terms and Conditions remain unchanged**