

**RETURN BIDS TO:  
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Bid Receiving - PWGSC  
11 Laurier St.  
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Bid Fax: (819) 997-9776  
ePost Connect Email:  
[tpsgc.dgareceptiondessoumissions-abbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca](mailto:tpsgc.dgareceptiondessoumissions-abbidReceiving.pwgsc@tpsgc-pwgsc.gc.ca)

**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**

Innovation Procurement Directorate  
Direction des achats innovateurs  
Terrasses de la Chaudière  
10, rue Wellington, Étage 4  
Gatineau, Québec  
K1A 0S5

<b>Title-Sujet</b> Area Detection and Identification System (ADIS)	
<b>Solicitation No. - N° de l'invitation</b> W8476-18ADIS/B	<b>Amendment No. - N° modif.</b> 012
<b>Client Reference No. - N° de référence du client</b> W8476-18ADIS/B	<b>Date</b> 30 March 2020
<b>GETS Reference No. - N° de référence de SEAG</b>	
<b>File No. - N° de dossier</b> 010sl.W8476-18ADIS/B	<b>CCC No./N° CC - FMS NO. / N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 2:00 PM</b> <b>on - le 30 April 2020</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<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> April Campbell	<b>Buyer Id - Id de l'acheteur</b> 010SL
<b>Telephone No. - N° de téléphone</b> 613-858-9485	<b>FAX No. - N° de FAX</b>
<b>Destination of Goods, Services and Construction:</b> <b>Destinations des biens, services et construction :</b>	
Specified Herein Précisé dans les présentes	

**Instructions : See Herein**

**Instructions : voir aux présentes**

<b>Delivery Required - Livraison exigée</b> See Herein	<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 telephone</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</b> <b>(taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**THIS AMENDMENT IS RAISED TO AMEND THE STAGE 2 TECHNICAL EVALUATION AND THE BASIS OF SELECTION AND TO RESPOND TO BIDDER QUESTIONS.**

At Volume 1, article 4.3, Stage 2 Technical Evaluation sub-article H,

DELETE: the following:

H. Point Rated Criteria will be scored out of 100 points, as follows:

Corporate Competencies	Scored out of 100 points	Weight: 20%
Proposed Project Plans	Scored out of 100 points	Weight: 25%
Environmental Management System Performance	Scored out of 100 points	Weight: 5%
DRDC Laboratory Test of proposed system	Scored out of 300 points	Weight: 50%

INSERT: the following:

H. Point Rated Criteria will be scored out of 600 available points and the following weights applied to each the score for each section as follows:

Corporate Competencies	Scored out of 100 points	Weight: 20%
Proposed Project Plans	Scored out of 100 points	Weight: 25%
Environmental Management System Performance	Scored out of 100 points	Weight: 5%
DRDC Laboratory Test of proposed system	Scored out of 300 points	Weight: 50%

Total available points: 600 Weight: 200

For example,

Max Possible Score = 600 Weighted Value = 200	Bidder 1		Bidder 2		Bidder 3	
	Score	Weighted Value	Score	Weighted Value	Score	Weighted Value
Corporate Competencies (100 pts x 20%)	85.0	17.0	90.0	18.0	70.0	14.0
Proposed Project Plans (100 pts x 25%)	90.0	22.5	80.0	20.0	80.0	20.0
Environmental Management System Performance (100 pts x 5%)	75.0	3.8	95.0	4.8	75.0	3.8
DRDC Laboratory Test of proposed system (300 pts x 50%)	250.0	125.0	240.0	120.0	270.0	135.0
<b>Total Weighted Score</b>		<b>168.3</b>		<b>162.8</b>		<b>172.8</b>

When a calculation includes a decimal, calculations will be rounded to the first decimal point. The weights will be applied to the scores at article 4.8, Basis of Selection, sub-article 4.8.1, B.

At article **4.8, Basis of Selection**, sub-article 4.8.1 B,

DELETE: B. Bids not meeting 4.8.1 A will be declared non-responsive.

INSERT: B. Bids not meeting 4.8.1 A will be declared non-responsive. For each responsive bid, the weights identified in article 4.3 H will be applied to the technical score achieved for each aspect of the evaluation.

At article **4.8.2, Evaluation Example**,

DELETE: Evaluation Example in its entirety.

INSERT: The following:

**4.8.2** Evaluation Example

<b>Basis of Selection - Highest Combined Rating Technical Merit (60%), Price (25%) and ITB/VP (15%)</b>				
		<b>Bidder 1</b>	<b>Bidder 2</b>	<b>Bidder 3</b>
<b>Weighted Technical Score</b>		145/200	170/200	125/200
<b>ITB / VP Score</b>		56/100	65/100	80/100
<b>Total Evaluated Bid Price</b>		\$550,000.00	\$500,000.00	\$450,000.00
<b>Calculations</b>	<b>Technical Merit Score</b>	145/200*60 = 43.5	170/200*60 = 51.0	125/200*60 = 37.5
	<b>ITB VP SCORE</b>	56/100*15 = 8.4	65/100*15 = 9.8	80/100*15 = 12
	<b>Pricing Score</b>	45/55*25 = 20.5	45/50*25 = 22.5	45/45*25 = 25
	<b>Combined Rating</b>	72.4	83.3	74.5
<b>Overall Rating</b>		3rd	1st	2nd

Note: When a calculation includes a decimal, calculations will be rounded to the first decimal point.

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Q77 Document ADIS\_RFP\_Vol\_2, page 2 Table of Contents and ADIS\_RFP\_Vol\_3, page 2 Table of Contents identifies Annex B as Basis of Payment.  
[We can find no such Annex .](#)

A77 The Basis of Payment can be found on page 57 of 59 of Volume 2, and on page 40 of 45 of Volume 3.

- Q78 Document "Volume 1: Bidder Instructions and Requirements" page 23, Phase II Technical bid, "Point-rated criteria is excluded from the PBCP."  
 What point rated criteria are meant here? Is it the section "4.3.4 Point Rated Technical Criteria" starting on page 29?
- A78 ALL point rated criteria is excluded from the application of the PBCP. The PBCP only applies to the mandatory requirements.
- Q79 Document "Volume 1: Bidder Instructions and Requirements", page 25, Point H, Can you please give an example of calculation of the total score? It is not clear if for the DRDC testing 300 points can be achieved and it has weight of 50%, how does it combine to total of 100 points.
- Document "Volume 1: Bidder Instructions And Requirements", page 35, 4.5 Stage 4 - Preliminary Financial Evaluation "Preliminary Financial Score = Points Achieved in Stage 2 pts ( $/300$ ) + Points Achieved in Stage 3 pts (100) + 300 available points for Stage 3"  
 What is the difference between " $/300$ " and "100"? Is there an error in the term "300 available points for Stage 3" and it should state "300 available points for Stage 5"?  
 Is not the maximum points achievable in stage 2, 100 points?
- A79 Thank you – this error represents an oversight and has been rectified above and an example provided.
- Q80 In the Appendix AA of Annex A of Vol 2 System Requirements Specification (SysRS) for the Area Detection and Identification System (ADIS), DND Document # W8476–145109; Date: 12 November 2019 on page 4, part 3 REQUIREMENTS, ID number 10 it is stated that:  
 The ADIS must scan a minimum elevation coverage of  $-10^{\circ}$  to  $+40^{\circ}$  at any azimuth.  
 We understand this particular requirement is set to scan using the sky as a background, which might be a good background helping to solve this issue with minimum  $\Delta t$  (plume vs background) but for real life use we would suggest to change it to elevation starting at  $-30^{\circ}$  to
- be able to use the detector on elevated places
  - to cover that has a higher probability of CWA cloud - close to the ground
- A80 Understood. These are the minimum requirements and do not preclude a greater range of elevation.
- Q81 Attachment 2A to Part 4 Vol 1 page 40 ADIS ATTACH 2A to Part 4 – DRDC Lab  
 The test setup consists of **1) a gas cell** placed in front of **2) a temperature-controlled plate**. The sensor under test aims at the plate through the gas cell, probing its content with 10 cm internal optical path.
- We feel this is not fair to all the systems. There are various ways and different methods to deliver the capability required. We would like the testing to cover all methods of detection and identification. We would request this section to be revised to be more fair to bidders and create different evaluation method for active standoff and different for passive standoff approach but with keeping a common denominator.

Currently, testing is resolving the problem that passive approach will have in real conditions, namely the problem of the  $\Delta t$ , required minimum difference in the temperature of the background versus temperature of the plume. In the testing it is resolved by placing the temperature controlled plate behind the chamber. Problem with minimum  $\Delta t$  is thus resolved in the testing but will not be resolved for in real conditions. In the same time we understand that it is necessary to create such background, tackling  $\Delta t$  issue to be able to fairly evaluate all passive systems and compare all them among each other.

Active detection systems compared to passive systems are not dependent on the temperature of the background and will measure even with  $\Delta t$  at the zero level, or any level. And while we are understand creating an advantage for passive approach, the same temperature controlled plate behind the gas cell, plate that will not exist in reality will create a barrier for testing active systems. Another-words, setup is favoring passive systems and with the same step disadvantaging active systems. All by placing a measure that will not exist in real conditions. Active approach requires minimum measuring path. Active systems do measure from the zero distance but the path they scan has to have a minimum length. We do agree there should be no minimum distance for detection and we think it is fair to have a gas cell in front of the system (even if the testing setup won't reflect standoff distance measurement).

To have same standard and common denominator for all systems we agree with gas cell being placed in zero centimeters and with plume length only 10 centimeters in length. But we do suggest to remove the plate for the trials with active systems and to replace it with an open path of 250 meters behind the chamber and a reflective background at the end of the open path.

A81 Please refer to Amendment 009, answer A61 (b). Accommodations to the specified method will be made for different systems.

Q82 In the Appendix AA of Annex A of Vol 2 System Requirements Specification (SysRS) for the Area Detection and Identification System (ADIS) DND Document # W8476-145109; Date: 12 November 2019, page 5; the ID number 19;20;21 states:  
ADIS should detect and identify all CWAs listed in Table A of attachment AA3 to Appendix AA of Annex A at the specified Detection Levels (concentrations). The Detection Criteria is defined as a probability of successful detection and identification of at least 80% (95% confidence level) under the following conditions:

- a. Chemical Cloud width and depth of 50 meters;
- b. A Chemical Cloud at a distance of 3 km or more from the DH with an unobstructed line of sight;

Question:

What should be the height of the cloud? CWAs form secondary clouds with height up to 10 meters, shall we assume this will be standard for the height of the cloud?

A82 The cloud is assumed to be uniform (50m x 50m x 50m). The different properties of the clouds may mean some have varying densities in relation to the ground, but because these will vary between CWAs or TICs they have not been specified.

- Q83 In the Appendix AA of Annex A of Vol 2 System Requirements Specification (SysRS) for the Area Detection and Identification System (ADIS) DND Document # W8476–145109; Date: 12 November 2019, page 10; ID of the requirement 92 It is stated that:ADIS should allow the operator disable or enable further alarms triggered by certain signatures or sources.  
Question:  
We would like to have more specific requirement. Can You please elaborate on this requirement on what exactly is expected here? How is trigger/alarm defined for this purpose? What is the differentiator between Alarm Canceled by the Operator and the New Alarm? Is it left open for the producer of the ADIS system?
- A83 The trigger/alarm should allow for disabling of the alarm. For example, the operator should be able to disable further alarms of a chemical from a factory in a scanning zone. This will prevent the system or a sensor from alarming for Chlorine when scanning the factory, but still allow the operator to enable the alarm for Chlorine when not scanning the factory.
- Q84 In the Appendix AA of Annex A of Vol 2 System Requirements Specification (SysRS) for the Area Detection and Identification System (ADIS) DND Document # W8476–145109; Date: 12 November 2019, page 6; ID 33 and 34, 3.1.2.7 section;  
It is stated:  
Multiple Targets  
ADIS should detect and identify multiple distinct (not overlapping or mixed) Chemical Clouds, composed of any substance in its library, simultaneously present within the coverage area.  
Question:  
What is the approach to the mixed clouds? If there are overlapping and mixed clouds what is expected from the standoff detector?
- A84 It is recognized that some systems can detect mixed clouds, there are no ADIS requirements for mixed or overlapping clouds. This feature may be tested after Contract Award during the system qualification phase to identify functional characteristics of ADIS.
- Q85 In the Appendix AA of Annex A of Vol 2 System Requirements Specification (SysRS) for the Area Detection and Identification System (ADIS) DND Document # W8476–145109; Date: 12 November 2019, page 13; ID 127 3.2.5 Set-up and Start-up Time  
It is stated that setup time is maximum 60 minutes.  
Question:  
If it is understood that the only requirement is 60 minutes for setup and startup time jointly. Both times combined. What is the individual startup time when system is already setup? If You move the system to a different location but it remains operational and setup, is it expected for ADIS to function immediately or it is allowed for scanning the background first? If it is allowed and we can call it startup time as a separate time unit, what is the maximum time?
- A85 There is no separate startup time when the system is already set up. If the system is moved, a scanning of the background will be allowed, but there is no set time limit.

- Q86 In the Appendix AA of Annex A of Vol 2 System Requirements Specification (SysRS) for the Area Detection and Identification System (ADIS) DND Document # W8476-145109; Date: 12 November 2019, page 16, ID Number 173  
It is stated that ADIS should offer a telescoping mast  
Question:  
It is a very general requirement. Is it possible to be more specific?
- A86 Please refer to Amendment 007, answer A30.
- Q87 Document Volume 1: Bidder Instructions and Requirements, page 70 of 77, Sections 6.1 Security Requirements, 6.2 Security Requirements - ADIS Acquisition Contract - W8476-145109/001/sl, and 6.3 Security Requirement In-Service Support - W8476-165477/001/sl includes Security requirements for the ADIS program.  
Where in our response should we address Security Requirements. Should these items be a part of our response to Section I: Technical Bid – ADIS Acquisition?
- A87 Yes, the response can be in the Technical Bid. It is suggested you follow the numbering system and format of the RFP.
- Q88 Throughout Volume 1: Bidder Instructions and Requirements to include Attachment 2b To Part 4, there is reference to a Certificate of Conformance (CoC) as a verification method to specific requirements.  
Can you please describe in detail this specific document or provide a Certificate of Conformance (CoC) example? (e.g. what elements should it include) and explain which organization should provide the information (bidder, manufacturer, the PWGSC, etc.)? If no example is provided, is it acceptable for the bidder or manufacturer to provide their own CoC?
- A88 Any format of CoC will be acceptable provided the CoC meets the requirements of Appendix AA to Annex A – “Certificate of Conformance (CoC): A document certified by a competent authority with a formal statement that it certifies or warrants that the proposed system, supplied goods or services fully comply with the required specifications.” This could be the bidder or the manufacturer but will not be provided as part of the Bid Evaluation by PSPC (PWGSC) or DND.
- Q89 In the document Volume 1: Bidder Instructions and Requirements, Section 4.3.1.D, page 25, it states: “The Bidder must submit only the number of projects requested; projects submitted in excess of that number will not be evaluated.” And, in Section 4.3.2 Mandatory Requirements, when a number of projects are requested to substantiate a claim the terminology of “up to” X projects is used.  
Question: If a requirement states “up to 5 projects” please confirm whether that means that the bidder may submit anywhere from 1 -5 projects as proof, OR, is it expected for a bidder to submit a total of 5 projects?
- A89 “Up to” is the important phrase. Based on the example provided, the bidder may submit 1 to 5 projects to demonstrate they have met the mandatory requirement OR to obtain the available points. If the bidder submits 7 projects, Canada will only evaluate the first five projects. Alternatively, if the requirement states the bidder should demonstrate “a minimum of 1 project”, the bidder is requested to submit only 1 project.

Q90 In Volume 1: Bidder Instructions and Requirements, under System Requirement ID 315, it states: "ADIS must not be damaged and operate following any military standard type vibration test."

Question: Will the PWGSC please clarify or provide the specifications as to what are the requirements as it pertains to "any military standard type vibration test?"

A90 There are no specific requirements for ID 315. This allows the bidder an opportunity to provide vibration test reports that may not be covered in other requirements.