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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

Aerospace Spares and Logistics / Pièces de
rechange aérospatiales et logistiques

11 Laurier St. / 11, rue Laurier

8C1, Place du Portage

Gatineau

Québec

K1A 0S5

Title - Sujet Guided Precision Aerial Delivery Guided Precision Aerial Delivery System		
Solicitation No. - N° de l'invitation W6399-22LI26/B		Date 2022-07-13
Client Reference No. - N° de référence du client W6399-22LI26		Amendment No. - N° modif. 001
File No. - N° de dossier 275by.W6399-22LI26	CCC No./N° CCC - FMS No./N° VME	
GETS Reference No. - N° de référence de SEAG PW-\$\$BY-275-28732		
Date of Original Request for Standing Offer		2022-07-06
Date de la demande de l'offre à commandes originale		
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2022-08-04 Heure Avancée de l'Est HAE		
Address Enquiries to: - Adresser toutes questions à: Votano, Diego		Buyer Id - Id de l'acheteur 275by
Telephone No. - N° de téléphone (873) 353-9567 ()		FAX No. - N° de FAX () -
Delivery Required - Livraison exigée		
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:		
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		

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Buyer ID - Id de l'acheteur
275BY
CCC No./N° CCC - FMS No./N° VME

Amendment 001 of Request for Standing Offer W6399-22LI26 is raised to :

- 1) Replace Annex B – Basis of Payment, *Table 1 – Initial Contract Years* and *Table 2 – Option Quantities*
- 2) Replace Annex H – Financial Evaluation, *Table 1 – Initial Contract Years* and *Table 2 – Option Years*

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Standing Offers (RFSO) is divided into seven parts plus attachments and annexes, as follows:

- | | |
|--------|---|
| Part 1 | General Information: provides a general description of the requirement; |
| Part 2 | Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO; |
| Part 3 | Offer Preparation Instructions: provides offerors with instructions on how to prepare their offer to address the evaluation criteria specified; |
| Part 4 | Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection; |
| Part 5 | Certifications and Additional Information: includes the certifications and additional information to be provided; |
| Part 6 | Security, Financial and Insurance Requirements: includes specific requirements that must be addressed by offerors; and |
| Part 7 | 7A, Standing Offer, and 7B, Resulting Contract Clauses:

7A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;

7B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer. |

The Annexes include the Statement of Work, the Basis of Payment, the Electronic Payment Instruments, the Federal Contractors Program for Employment Equity - Certification and any other annexes

1.2 Summary

- 1.2.1 The scope and requirements that apply to this Standing Offer are for the provision of Guided Precision Aerial Delivery Systems (GPADS) to the Department of National Defence (DND). DND has a requirement for parachute-based systems that can provide autonomous precision delivery of equipment and supplies to personnel on the ground. The Standing offer will be for the supply of GPADS, Parachute Rigging Services, training and related spares on an "as-and-when-requested" basis.
- 1.2.2 The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Part 5 – Certifications and Additional Information, Part 7A -Standing Offer, and Part 7B - Resulting Contract Clauses and the annex titled Federal Contractors Program for Employment Equity - Certification.
- 1.2.3 This RFSO allows offerors to use the epost Connect service provided by Canada Post Corporation to transmit their offers electronically. Offerors must refer to Part 2 of the RFSO

entitled Offeror Instructions and Part 3 of the RFSO entitled Offer Preparation Instructions, for further information on using this method.

1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

1.4 Anticipated migration to an e-Procurement Solution (EPS)

Canada is currently developing an online EPS for faster and more convenient ordering of goods and services. In support of the anticipated transition to this system and how it may impact any resulting Standing Offer that is issued under this solicitation, refer to 7.15 Transition to an e-Procurement Solution (EPS).

The Government of Canada's [press release](#) provides additional information.

PART 2 - OFFEROR INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](#) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006](#) (2022-03-29) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

Subsection 5.4 of [2006](#), (2022-03-29) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 180 days

2.1.1 SACC Manual Clauses

2.1.1.1 SACC Manual Clause [M0066T](#) (2007-05-25) – Prices – Items

Offerors must submit firm prices for all items listed in Annex B.

2.1.1.2 SACC Manual Clause [M0068T](#) (2007-05-25) – Rates – Resources

Offerors must submit firm rates for all categories of resources listed in Annex B.

2.1.1.3 SACC Manual Clause [A0050T](#) (2007-11-30) - Submission of Offers,

Offers must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated in the RFSO.

Due to the nature of the Request for Standing Offers, transmission of offers by facsimile to PWGSC will not be accepted.

Note: For offerors choosing to submit using Canada Post Corporation's (CPC) Connect service for offers closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.pareceptiondessoumissions-apbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Offers will not be accepted if emailed directly to this email address. This email address is to be used to open an CPC Connect conversation, as detailed in Standard Instructions [2006](#), or to send offers through an CPC Connect message if the bidder is using its own licensing agreement for CPC Connect service.

2.2 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than 5 calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by offerors to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all offerors. Enquiries not submitted in a form that can be distributed to all offerors may not be answered by Canada.

2.3 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the offerors.

2.4 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential offerors to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages offerors to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Offerors should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Offerors should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - OFFER PREPARATION INSTRUCTIONS

3.1 Offer Preparation Instructions

The Bidder must submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2006 standard instructions. The CPC Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

Canada requests that the offer be gathered per section and separated as follows:

- Section I: Technical Offer (Electronic copies)
- Section II: Financial Offer (Electronic copies)
- Section III: Certifications (Electronic copies)
- Section IV: Additional Information (Electronic copies)

Prices must appear in the financial offer only. No prices must be indicated in any other section of the offer.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, Offerors should:

- 1) Include all environmental certification(s) relevant to your organization (e.g. ISO 14001, Leadership in Energy and Environmental Design (LEED), Carbon Disclosure Project, etc.)
- 2) Include all environmental certification(s) or Environmental Product Declaration(s) (EPD) specific to your product/service (e.g. Forest Stewardship Council (FSC), ENERGYSTAR, etc.)

Unless otherwise noted, Offerors are encouraged to submit offers electronically.

Section I: Technical Offer

In their technical offer, offerors should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Offer

Offerors must submit their financial offer in accordance with the Basis of Payment detailed in Annex B, Basis of Payment.

3.1.1 Electronic Payment of Invoices - Offer

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "C" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "C" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

SACC Manual Clause [C3011T](#) (2013-11-06), Exchange Rate Fluctuation, is incorporated by reference into and form part of the contract.

Section III: Certifications

3.1.3 Offerors must submit the certifications and additional information required under Part 5.

Section IV: Additional Information

3.1.4 The completed Annex (C) – Electronic Payment Instrument

3.1.5 The completed Annex (D) – Federal Contractors Program for Employment Equity.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

(a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.

(b) An evaluation team composed of representatives of Canada will evaluate the offers.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Offerors must meet all of the mandatory technical requirements as defined at Annex E, "BID EVALUATION (PHASE I) FOR THE GUIDED PRECISION AERIAL DELIVERY SYSTEM".

4.1.1.2 Point Rated Technical Criteria

Offerors will be evaluated against the Point rated technical criteria as defined at Annex F "EVALUATION PROCESS (PHASE II) AND DEMONSTRATION OF PERFORMANCE FOR THE GUIDED PRECISION AERIAL DELIVERY SYSTEM".

4.1.2 Financial Evaluation

4.1.2.1 *SACC Manual* Clause [M0220T](#) (2016-01-28), Evaluation of Price, is incorporated by reference into and form part of the contract.

4.1.2.2 *SACC Manual* Clause [M0222T](#) (2016-01-28), Evaluation of Price - Canadian/Foreign, Offerors is incorporated by reference into and form part of the contract.

4.2 Phased Bid Compliance Process

The Phased Bid Compliance Process (PBCP) applies to all sections of the bid (Section I: Technical Bid, Section II: Financial Bid, Section III: Certifications, Section IV: Additional Information).

4.2.1 General

- (a) Canada is conducting the PBCP described below for this requirement.
- (b) Notwithstanding any review by Canada at Phase I or II of the PBCP, Offerors are and will remain solely responsible for the accuracy, consistency and completeness of their offers and Canada does not undertake, by reason of this review, any obligations or responsibility for identifying any or all errors or omissions in Offers or in responses by a Offeror to any communication from Canada.

THE OFFEROR ACKNOWLEDGES THAT THE REVIEWS IN PHASE I AND II OF THIS PBCP ARE PRELIMINARY AND DO NOT PRECLUDE A FINDING IN PHASE III THAT THE OFFER IS NON-RESPONSIVE, EVEN FOR MANDATORY REQUIREMENTS WHICH WERE SUBJECT TO REVIEW IN PHASE I OR II AND NOTWITHSTANDING THAT THE OFFER HAD BEEN FOUND RESPONSIVE IN SUCH EARLIER PHASE. CANADA MAY DEEM A OFFER TO BE NON-RESPONSIVE TO A MANDATORY REQUIREMENT AT ANY PHASE. THE OFFEROR ALSO ACKNOWLEDGES THAT ITS RESPONSE TO A NOTICE OR A COMPLIANCE ASSESSMENT REPORT (CAR) (EACH DEFINED BELOW) IN PHASE I OR II MAY NOT BE SUCCESSFUL IN RENDERING ITS OFFER RESPONSIVE TO THE MANDATORY REQUIREMENTS THAT ARE THE SUBJECT OF THE NOTICE OR CAR, AND MAY RENDER ITS OFFER NON-RESPONSIVE TO OTHER MANDATORY REQUIREMENTS.

- (c) Canada may, in its discretion, request and accept at any time from a Offeror and consider as part of the Offer, any information to correct errors or deficiencies in the Offer that are clerical or administrative, such as, without limitation, failure to sign the Offer or any part or to checkmark a box in a form, or other failure of format or form or failure to acknowledge; failure to provide a procurement business number or contact information such as names, addresses and telephone numbers; inadvertent errors in numbers or calculations that do not change the amount the Offeror has specified as the price or of any component thereof that is subject to evaluation. This shall not limit Canada's right to request or accept any information after the Offer solicitation closing in circumstances where the Offer solicitation expressly provides for this right. The Offeror will have the time period specified in writing by Canada to provide the necessary documentation. Failure to meet this deadline will result in the Offer being declared non-responsive.
- (d) The PBCP does not limit Canada's rights under Standard Acquisition Clauses and Conditions (SACC) 2006 (2022-03-29) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements nor Canada's right to request or accept any information during the solicitation period or after bid solicitation closing in circumstances where the bid solicitation expressly provides for this right, or in the circumstances described in subsection (c).
- (e) Canada will send any Notice or CAR by any method Canada chooses, in its absolute discretion. The Offeror must submit its response by the method stipulated in the Notice or CAR. Responses are deemed to be received by Canada at the date and time they are delivered to Canada by the method and at the address specified in the Notice or CAR. An email response permitted by the Notice or CAR is deemed received by Canada on the date and time it is received in Canada's email inbox at Canada's email address specified in the Notice or CAR. A Notice or CAR sent by Canada to the Offeror at any address provided by the Offeror in or pursuant to the Offer is deemed received by the Offeror on the date it is sent by Canada. Canada is not responsible for late receipt by Canada of a response, however caused.

4.2.2 Phase I: Financial Bid

- (a) After the closing date and time of this bid solicitation, Canada will examine the Offer to determine whether it includes a Financial Bid and whether any Financial Bid includes all information required

by the solicitation. Canada's review in Phase I will be limited to identifying whether any information that is required under the bid solicitation to be included in the Financial Bid is missing from the Financial Bid. This review will not assess whether the Financial Bid meets any standard or is responsive to all solicitation requirements.

- (b) Canada's review in Phase I will be performed by officials of the Department of Public Works and Government Services.
- (c) If Canada determines, in its absolute discretion that there is no Financial Bid or that the Financial Bid is missing information required by the bid solicitation to be included in the Financial Bid, then the Bid will be considered non-responsive and will be given no further consideration.
- (d) For Offers other than those described in (c), Canada will send a written notice to the Offeror ("Notice") identifying where the Financial Bid is missing information. An Offeror, whose Financial Bid has been found responsive to the requirements that are reviewed at Phase I, will not receive a Notice. Such Bidders shall not be entitled to submit any additional information in respect of their Financial Bid.
- (e) The Offerors who have been sent a Notice shall have the time period specified in the Notice (the "Remedy Period") to remedy the matters identified in the Notice by providing to Canada, in writing, additional information or clarification in response to the Notice. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the Notice.
- (f) In its response to the Notice, the Offeror will be entitled to remedy only that part of its Financial Bid which is identified in the Notice. For instance, where the Notice states that a required line item has been left blank, only the missing information may be added to the Financial Bid, except that, in those instances where the addition of such information will necessarily result in a change to other calculations previously submitted in its Financial Bid, (for example, the calculation to determine a total price), such necessary adjustments shall be identified by the Offeror and only these adjustments shall be made. All submitted information must comply with the requirements of this solicitation.
- (g) Any other changes to the Financial Bid submitted by the Offeror will be considered to be new information and will be disregarded. There will be no change permitted to any other Section of the Offeror's Offer. Information submitted in accordance with the requirements of this solicitation in response to the Notice will replace, in full, **only** that part of the original Financial Bid as is permitted above, and will be used for the remainder of the bid evaluation process.
- (h) Canada will determine whether the Financial Bid is responsive to the requirements reviewed at Phase I, considering such additional information or clarification as may have been provided by the Offeror in accordance with this Section. If the Financial Bid is not found responsive for the requirements reviewed at Phase I to the satisfaction of Canada, then the Offer shall be considered non-responsive and will receive no further consideration.
- (i) Only Offer's found responsive to the requirements reviewed in Phase I to the satisfaction of Canada, will receive a Phase II review.

4.2.3 Phase II: Technical Bid

- (a) Canada's review at Phase II will be limited to a review of the Technical Bid Offer to identify any instances where the Offeror has failed to meet any Eligible Mandatory Criterion. This review will not assess whether the Technical Bid meet any standard or is responsive to all solicitation

requirements. Eligible Mandatory Criteria are all mandatory technical criteria that are identified in this solicitation as being subject to the PBCP. Mandatory technical criteria that are not identified in the solicitation as being subject to the PBCP, will not be evaluated until Phase III.

- (b) Canada will send a written notice to the Offeror (Compliance Assessment Report or "CAR") identifying any Mandatory Criteria that the Offer has failed to meet. A Offeror whose Offer has been found responsive to the requirements that are reviewed at Phase II will receive a CAR that states that its Offer has been found responsive to the requirements reviewed at Phase II. Such Offeror shall not be entitled to submit any response to the CAR.
- (c) A Bidder shall have the period specified in the CAR (the "Remedy Period") to remedy the failure to meet any Mandatory Criterion identified in the CAR by providing to Canada in writing additional or different information or clarification in response to the CAR. Responses received after the end of the Remedy Period will not be considered by Canada, except in circumstances and on terms expressly provided for in the CAR.
- (d) The Offeror's response must address only the Eligible Mandatory Criteria listed in the CAR as not having been achieved, and must include only such information as is necessary to achieve such compliance. Any additional information provided by the Offeror which is not necessary to achieve such compliance will not be considered by Canada, except that, in those instances where such a response to the Eligible Mandatory Criteria specified in the CAR will necessarily result in a consequential change to other parts of the Offer, the Offeror shall identify such additional changes, provided that its response must not include any change to the Financial Bid.
- (e) The Offeror's response to the CAR should identify in each case the Eligible Mandatory Criterion in the CAR to which it is responding, including identifying in the corresponding section of the original Bid, the wording of the proposed change to that section, and the wording and location in the Bid of any other consequential changes that necessarily result from such change. In respect of any such consequential change, the Offeror must include a rationale explaining why such consequential change is a necessary result of the change proposed to meet the Mandatory Criterion. It is not up to Canada to revise the Offeror's Offer, and failure of the Offeror to do so in accordance with this subparagraph is at the Offeror's own risk. All submitted information must comply with the requirements of this solicitation.
- (f) Any changes to the Offer submitted by the Offeror other than as permitted in this solicitation, will be considered to be new information and will be disregarded. Information submitted in accordance with the requirements of this solicitation in response to the CAR will replace, in full, **only** that part of the original Offer as is permitted in this Section.
- (g) Additional or different information submitted during Phase II permitted by this section will be considered as included in the Offer, but will be considered by Canada in the evaluation of the Offer at Phase II only for the purpose of determining whether the Offer meets the Eligible Mandatory Criteria. It will not be used at any Phase of the evaluation to increase or decrease any score that the original Offer would achieve without the benefit of such additional or different information. For instance, an Eligible Mandatory Criterion that requires a mandatory minimum number of points to achieve compliance will be assessed at Phase II to determine whether such mandatory minimum score would be achieved with such additional or different information submitted by the Offeror in response to the CAR. If so, the Offer will be considered responsive in respect of such Eligible Mandatory Criterion, and the additional or different information submitted by the Offeror shall bind the Offeror as part of its Offer, but the Offeror's original score, which was less than the mandatory minimum for such Mandatory Criterion, will not change, and it will be that original score that is used to calculate any score for the Offer.

- (h) Canada will determine whether the Offer is responsive for the requirements reviewed at Phase II, considering such additional or different information or clarification as may have been provided by the Offeror in accordance with this Section. If the Offer is not found responsive for the requirements reviewed at Phase II to the satisfaction of Canada, then the Offer shall be considered non-responsive and will receive no further consideration.
- (i) Only Offers found responsive to the requirements reviewed in Phase II to the satisfaction of Canada, will receive a Phase III review.

4.2.4 Phase III: Final Evaluation of the Bid

- (a) In Phase III, Canada will complete the evaluation of all Offers found responsive to the requirements reviewed at Phase II. Offers will be assessed in accordance with the entire requirement of the Offer solicitation including the technical and financial criteria.
- (b) A Offer is non-responsive and will receive no further consideration if it does not meet all mandatory evaluation criteria of the solicitation.

4.3 Technical Criteria

Mandatory and point rated technical evaluation criteria are detailed in Annex E (Mandatory) and Annex F (point rated).

4.4 Financial Bid Evaluation

4.4.1 Financial Criteria

4.4.1.1 Volume 1 - Financial Bid

The price of the Offer will be evaluated in Canadian dollars, applicable taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

- a) All financial information must be submitted in the green cells of Annex H, Financial Bid Evaluation Criteria Worksheets.
- b) The information from the green cells will be used for three (3) purposes:
 - 1) To establish the Offeror's Financial Score;
 - 2) The Financial Score will be used for the Basis of Selection;
 - 3) The fully loaded rates identified in the winning Offeror's Financial Bid Evaluation, will be used to populate the Basis of Payment fields in the resulting Contract, Part 7, Annex B.
- c) The Financial Score is the result of the Offeror's Financial Bid Evaluation Criteria Worksheets and will be used in the calculation of the top-ranked, compliant bid.

4.5 Basis of Selection

- 1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and

- b. meet all mandatory criteria
2. Bids not meeting (a) and (b) will be declared non-responsive.
The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70 % for the technical merit and 30 % for the price.
 3. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70 %.
 4. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30 %.
 5. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
 6. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.
 7. The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equals 258 and the lowest evaluated price is \$8,500,000 :

	Bidder 1	Bidder 2	Bidder 3
Overall Technical Score	243/258	210/258	195/258
Bid Evaluated Price	\$8,550,000	\$11,750,000	\$14,250,000
Technical Merit Score	243/258 x 70 = 65.93	210/258 x 70 = 56.97	195/258 x 70 = 52.91
Pricing Score	\$8,500,000/\$8,500,000 X 30= 30	\$8,500,000/\$11,750,000 X 30 = 21.7	\$8,500,000/\$14,250,000 X 30= 17.89
Combined Rating	65.93+30=95.93	56.97+21.7=78.67	52.91+17.89=70.8
Overall Rating	1	2	3

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by offerors to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be

untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

5.1 Certifications Required with the Offer

Offerors must submit the following duly completed certifications as part of their offer.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all offerors must provide with their offer, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the offer non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the Ineligibility and Suspension Policy, the Offeror must provide the required 4.21, 5.16 and 8.70.2 of the Supply Manual for additional information.

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Offeror must provide the required documentation, as applicable, to be given further consideration in the procurement process.

PART 6 - SECURITY, FINANCIAL AND INSURANCE REQUIREMENTS

6.1 Security Requirements

There are no security requirements for this standing offer.

6.2 Financial Capability

SACC *Manual* clause [M9033T](#) (2011-05-16) Financial Capability, is incorporated by reference into and form part of the contract.

6.3 Insurance Requirements

SACC Manual clause [G1005C](#) (2016-01-28) Insurance – No Specific Requirement, is incorporated by reference into and form part of the contract.

PART 7 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

Section A: STANDING OFFER

7.1 Offer

The Offeror offers to fulfill the requirement in accordance with the Statement of Work at Annex A.

7.2 Security Requirements

There are no security requirements for this standing offer.

7.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

7.3.1 General Conditions

[2005](#) (2022-01-28) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

7.4 Terms of Standing Offer

SACC Manual Clause [M0019T](#) (2007-05-25) Firm Price and/or Rates, apply to and form part of the Standing Offer.

7.4.1 Period of the Standing Offer

The period for making call-ups and providing services against the Standing Offer is from date of acceptance of offer's bid to 31 March 2025 inclusive.

7.4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for an additional 3 year period, to be exercised in whole or in part at the sole discretion of Canada from 1 April 2025 to 31 March 2028 under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority 90 days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

7.4.3 Delivery Points

SACC Manual Clause D4001C (2008-12-12) Shipping Instructions – Delivery at Destination:

Goods must be consigned to the destination specified in the Contract and delivered:

Delivered Duty Paid (DDP) Department of National Defence, Bldg Z-106, 46 Centurion Rd. Petawawa, ON K8H2X3, Canada Incoterms 2000 for shipments from a commercial contractor.

7.4.4 SACC Manual Clause D0037C (2016-01-28) Shipping Instructions (repairable items) (Department of National Defence) - Canadian-based Contractor

1. Delivery of items for repair will be FCA Free Carrier at Contractor's facility Incoterms 2000. The Contractor must load the goods onto the carrier designated by the Department of National Defence (DND). Onward shipment from the delivery point to the consignee will be Canada's responsibility.
2. Before shipping the goods, the Contractor must contact the following DND Inbound Logistics Coordination Center by facsimile or e-mail, to arrange for shipment, and provide the information detailed at paragraph 3.
 - a. Inbound Logistics Central Area (ILCA)
Telephone: 1-866-371-5420 (toll free)
Facsimile: 1-866-419-1627 (toll free)
E-mail: ILCA@forces.gc.ca
 - b. Inbound Logistics Coordination Center (ILCC)
Telephone: 1-877-877-7423 (toll free)
Facsimile: 1-877-877-7409 (toll free)
E-mail: ILHQOttawa@forces.gc.ca
3. The Contractor must provide the following information to the DND Inbound Logistics Coordination Center when arranging for shipment:
 - a. the Contract number;
 - b. consignee address (for multiple addresses, items must be packaged and labelled separately with each consignee address);
 - c. description of each item;
 - d. the number of pieces and type of packaging (i.e., carton, crate, drum, skid);
 - e. actual weight and dimensions of each piece type, including gross weight;
 - f. full details of dangerous goods/hazardous products, as required for the applicable mode of transportation, signed certificates for dangerous goods/hazardous products as required for shipment by the International Maritime Dangerous Goods Code, the International Air Transport Association regulations or the applicable Canadian [Transportation of Dangerous Goods Regulations](#), and a copy of the safety data sheet in English and French.

4. Following receipt of this information by Canada, Canada will provide the appropriate shipping instructions, which may include the requirement for specific consignee address labelling, and the marking of each piece with a Transportation Control Number.
5. The Contractor must not ship the goods before receiving shipping instructions from the DND Inbound Logistics contact.
6. If the Contractor delivers the goods at a place and time which are not in accordance with the given delivery instructions or fail to fulfill reasonable delivery instructions given by Canada, the Contractor must reimburse Canada any additional expenses and costs incurred.
7. If Canada is responsible for delays in delivering the goods, ownership and risk will be transferred to Canada upon expiry of either 30 days following the date on which a duly completed shipping application is received by Canada or by its appointed forwarding agent, or 30 days following the delivery date specified in the Contract, whichever is later.

7.4.5 Markings

SACC *Manual* Clause [D2000C](#) (2007-11-30) – Markings, is incorporated by reference into and form part of the contract.

7.4.6 Labelling

SACC *Manual* Clause [D2001C](#) (2007-11-30) - Labelling, is incorporated by reference into and form part of the contract.

7.4.7 Packaging

7.4.7.1 SACC *Manual* Clause [D2025C](#) (2017-08-17) – Wood Packaging Materials, is incorporated by reference into and form part of the contract.

7.4.7.2 SACC *Manual* Clause [D5545C](#) (2019-05-30) ISO 9001:2015 - Quality Management Systems - Requirements (Quality Assurance Code C), is incorporated by reference into and form part of the contract.

7.5 Authorities

7.5.1 Standing Offer Authority

The Standing Offer Authority is:

Name: Diego Votano
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Aerospace Equipment Program Directorate, Military Logistics and Spares Division BY :
Address : 11 Laurier, Portage III, Gatineau, Quebec K1A 0S5
Telephone: 873-353-9567
E-mail address: Diego.Votano@tpsgc-pwgsc.gc.ca

Solicitation No. - N° de l'invitation
W6399-22LI26/001/BY
Client Ref. No. - N° de réf. du client
W6399-22LI26

Amd. No. - N° de la modif.
001
File No. - N° du dossier
275BY. W6399-22LI26

Buyer ID - Id de l'acheteur
275BY
CCC No./N° CCC - FMS No./N° VME

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

7.5.2 Procurement Authority

The Procurement Authority for the Standing Offer is:

Name: Donna Lowes
Title: Materiel Acquisition and Support Specialist
Organization: Directorate of Land Procurement (DLP 8-2-2), Department of National Defense
Address: _____

Telephone: 613-998-4714
E-mail address: Donna.Lowes@forces.gc.ca

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

7.5.3 Technical Authority

The Technical Authority for the Standing Offer is:

Name: _____ TBD _____
Title: _____
Organization: _____
Address: _____

Telephone: _____ - _____ - _____
Facsimile: _____ - _____ - _____
E-mail address: _____

The Technical Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up under the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

7.5.4 Contractor's Representative

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____ - _____ - _____
Facsimile: _____ - _____ - _____
E-mail: _____.

7.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2019-01](#) of the Treasury Board Secretariat of Canada.

7.7 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: Directorate of Land Procurement 8 (DLP 8).

7.8 Call-up Procedures

Only the goods and services listed within Annex B (Basis of Payment) are authorised to be supplied under this Standing Offer.

Repair Services: All repair services (only those described at Annex A of the SOW) must be completed at the Offeror's facility. Requests for repair services will be authorized in advance by the PA through the issue of a Call up using form PWGSC-942, 942-2. No work is to commence until the signed Call up is received authorizing the services to be performed. Any material embodied into any repair will be charged at the laid down cost plus a mark-up (including profit) to be negotiated.

7.8.1 Process to Conduct Repairs

The following outlines the process for repairs to be conducted. DND will be responsible for the transportation and delivery of this equipment to and from DND facilities and the contractors facility.

- (a) DND will issue a call-up to cover the pre-pack inspection, assembly and packing;
- (b) DND end-users will coordinate and deliver parachute assemblies requiring servicing to the contractors facility;
- (c) Contractor will conduct pre-pack inspection, assembly and packing;
- (d) Any repairs required will be identified by the contractor to the Procurement Authority with a quote for the repairs; and
- (e) Upon support by the Technical Authority, the Procurement Authority will authorize the repair by issuing an amendment to the call-up.

For spare parts or other services listed at the Annex A, Statement of Work, a call-up using form PWGSC-942, 942-2 will be used and charged in accordance with Annex B Basis of Payment.

7.9 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using the duly completed forms or their equivalents as identified in paragraphs 2 and 3 below, or by using Canada acquisition cards (Visa or MasterCard) for low dollar value requirements.

1. Call-ups must be made by Identified Users' authorized representatives under the Standing Offer and must be for goods or services or combination of goods and services included in the Standing Offer at the prices and in accordance with the terms and conditions specified in the Standing Offer.

2. Any of the following forms could be used which are available through [PWGSC Forms Catalogue](#) website:

- PWGSC-TPSGC 942 Call-up Against a Standing Offer
- PWGSC-TPGSC 942-2 Call-up Against a Standing Offer - Multiple Delivery

7.10 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$400,000.00 (Applicable Taxes included).

Individual call-ups over \$400,000.00 HSTI and under \$2,000,000.00 HSTI shall be submitted to the Standing Offer Authority for authorization.

7.11 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- a) the call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) General Conditions [2005](#) (2022-01-28)- Standing Offers - Goods or Services
- d) General Conditions [2030](#) (2020-05-28), General Conditions – Higher Complexity – Goods;
- e) Annex A, Statement of Work
- f) Annex G, OPERATIONAL PERFORMANCE AND TECHNICAL SPECIFICATIONS
- g) Annex B, Basis of Payment
- h) the Offeror's offer dated _____

7.12 Certifications and Additional Information

7.12.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

7.13 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

7.14 Transition to an e-Procurement Solution (EPS)

During the period of the Standing Offer, Canada may transition to an EPS for more efficient processing and management of individual call-ups for any or all of the SO's applicable goods and services. Canada reserves the right, at its sole discretion, to make the use of the new e-procurement solution mandatory.

Canada agrees to provide the Offeror with at least a three-month notice to allow for any measures necessary for the integration of the Offer into the EPS. The notice will include a detailed information package indicating the requirements, as well as any applicable guidance and support.

If the Offeror chooses not to offer their goods or services through the e-procurement solution, the Standing Offer may be set aside by Canada.

Section B: RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

7.15 Requirement

The Contractor must provide the items detailed in the call-up against the Standing Offer.

7.15.1 SACC Manual Clause [B7500C](#) (2006-06-16) Excess Goods, is incorporated by reference into and form part of the contract.

7.16 Standard Clauses and Conditions

7.16.1 General Conditions

General Conditions [2030](#) (2020-05-28), General Conditions – Higher Complexity – Goods, apply to and form part of the Contract.

7.16.2 Supplemental General Conditions

7.16.2.1 Supplemental General Conditions [4010](#) (2012-07-16) Services - Higher Complexity, apply to and form part of the Contract.

7.16.2.2 Supplemental General Conditions [4013](#) (2021-11-29) Compliance with on-site measures, standing orders, policies, and rules, apply to and form part of the Contract.

7.17 Term of Contract

7.17.1 Period of the Contract

Delivery must be completed in accordance with the call-up against the Standing Offer.

7.18 Payment

Unless specified otherwise, the continuous compliance with the certifications provided by the Offeror with its offer or precedent to issuance of the Standing Offer (SO), and the ongoing cooperation in providing additional information are conditions of issuance of the SO and failure to comply will constitute the Offeror in default. Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO.

7.18.1 Basis of Payment

SACC Manual Clause [C0207C](#) (2013-04-25) - Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s).

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in insert contract for a cost of \$ (_____). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

7.18.2 Limitation of Expenditure

1. Canada's total liability to the Contractor under the Contract must not exceed \$ _____. Customs duties are included and Applicable Taxes are extra.
2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - a. when it is 75% committed, or
 - b. four months before the contract expiry date, or
 - c. as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

whichever comes first.

3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

7.18.3 Terms of Payment,

SACC Manual Clause H1001C, (2008-05-12) Multiple Payments, is incorporated by reference into and form part of the contract.

7.18.4 SACC Manual Clauses

SACC Manual Clause C2000C (2007-11-30) Taxes – Foreign-Based Contractor, is incorporated by reference into and form part of the contract.

7.18.5 Electronic Payment of Invoices – Call-up

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);
- c. Wire Transfer (International Only);

7.19 Invoicing Submission

Invoices shall be submitted electronically in accordance with 7.20.1 – Invoicing Instructions.

7.20 Invoicing Instructions

SACC Manual Clause [H5001C](#) (2008-12-12) Invoicing Instructions :

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Each invoice must be supported by:

- a. a copy of time sheets to support the time claimed;
 - b. a copy of the release document and any other documents as specified in the Contract;
 - c. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;
 - d. a copy of the monthly progress report.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded via email to the following address for certification and payment :

Attn: DLP 8-2-2 Donna Lowes, Donna.Lowes@forces.gc.ca

- b. One (1) copy must be forwarded via email to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

7.21 Insurance Requirements

SACC Manual clause [G1005C](#) (2016-01-28) Insurance – No Specific Requirement, is incorporated by reference into and form part of the contract.

7.22 SACC Manual Clauses

SACC Manual Clause [A9006C](#) (2012-07-16) Defense Contract, is incorporated by reference into and form part of the contract.

7.23 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

7.24 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

Solicitation No. - N° de l'invitation
W6399-22LI26/001/BY
Client Ref. No. - N° de réf. du client
W6399-22LI26

Amd. No. - N° de la modif.
001
File No. - N° du dossier
275BY. W6399-22LI26

Buyer ID - Id de l'acheteur
275BY
CCC No./N° CCC - FMS No./N° VME

ANNEX A: STATEMENT OF WORK FOR THE GUIDED PRECISION AERIAL DELIVERY SYSTEM

(See Attachment I)

ANNEX B: BASIS OF PAYMENT

The Contractor will be paid Firm Prices for the delivery of the following goods listed at Table 1, Table 2 and Table 3 :

Note : Administration of call-up procedure, as per paragraph 7.8.1, for repair services will be at no additional cost.

Table 1 : Initial Contract Years

Items		Year 1	Year 2	Year 3
	UOI	Price	Price	Price
Small GPADS Multi-Use	Each			
Small GPADS Single-Use	Each			
Medium GPADS Multi-Use	Each			
Medium GPADS Single-Use	Each			
Handheld Remote Controllers	Each			
Mission Planning Software	Lot			
Training	Each			
Pre-pack Inspection - small	Each			
Pre-pack Inspection - medium	Each			
Assembly - small	Each			
Assembly - medium	Each			
Packing - small	Each			
Packing - medium	Each			
Repair	Hours			
Sewing	Hours			
Manufacturer's Recommended Spare Parts List (MRSPL)	Lot			
Manufacturer's Recommended Support Equipment List (MRSEL)	Lot			

Technical Data Package (TDP)	Lot	
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Table 2 : Option Quantities

Item		Option Year 1		Option Year 2		Option Year 3	
Item	UOI	Price		Price		Price	
Small GPADS Multi-Use	Each						
Small GPADS Single-Use	Each						
Medium GPADS Multi-Use	Each						
Medium GPADS Single-Use	Each						
Handheld Remote Controllers	Each						
Mission Planning Software	Lot						
Training	Each						
Pre-pack Inspection - Sm	Each						
Pre-pack Inspection - Md	Each						
Assembly - Sm	Each						
Assembly - Md	Each						
Packing - Sm	Each						
Packing - Md	Each						
Repair	Hours						
Sewing	Hours						
Total		Total		Total		Total	

Table 3 : Spare Parts List

SERIAL #	GPADS SPARES, MAINTENANCE ITEMS AND SUPPORT EQUIPMENT	Unit Of Issue	Year 1 Price	Year 2 Price	Year 3 Price	Option Year 1 Price	Option Year 2 Price	Option Year 3 Price
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Buyer ID - Id de l'acheteur
275BY
CCC No./N° CCC - FMS No./N° VME

[illegible]

Solicitation No. - N° de l'invitation
W6399-22LI26/001/BY
Client Ref. No. - N° de réf. du client
W6399-22LI26

Amd. No. - N° de la modif.
001
File No. - N° du dossier
275BY. W6399-22LI26

Buyer ID - Id de l'acheteur
275BY
CCC No./N° CCC - FMS No./N° VME

ANNEX C to PART 3 OF THE REQUEST FOR STANDING OFFERS

ELECTRONIC PAYMENT INSTRUMENTS

The Offeror accepts to be paid by any of the following Electronic Payment Instrument(s):

- () Direct Deposit (Domestic and International);
- () Electronic Data Interchange (EDI);
- () Wire Transfer (International Only);

ANNEX D to PART 5 OF THE REQUEST FOR STANDING OFFERS

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Offeror, by submitting the present information to the Standing Offer Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare an offer non-responsive, or may set-aside a Standing Offer, or will declare a contractor in default, if a certification is found to be untrue, whether during the offer evaluation period, during the Standing Offer period, or during the contract period. Canada will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply with any request or requirement imposed by Canada may render the Offer non-responsive, may result in the Standing Offer set-aside or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – Labour's](#) website.

Date: _____ (YYYY/MM/DD) (If left blank, the date will be deemed to be the RFSO closing date.)

Complete both A and B.

A. Check only one of the following:

- ☐ A1. The Offeror certifies having no work force in Canada.
- ☐ A2. The Offeror certifies being a public sector employer.
- ☐ A3. The Offeror certifies being a [federally regulated employer](#) being subject to the [Employment Equity Act](#).
- ☐ A4. The Offeror certifies having a combined work force in Canada of less than 100 permanent full-time and/or permanent part-time employees.

A5. The Offeror has a combined workforce in Canada of 100 or more employees; and

- ☐ A5.1 The Offeror certifies already having a valid and current [Agreement to Implement Employment Equity](#) (AIEE) in place with ESDC-Labour.
- OR**
- ☐ A5.2. The Offeror certifies having submitted the [Agreement to Implement Employment Equity](#) (LAB1168) to ESDC-Labour. As this is a condition to issuance of a standing offer, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- ☐ B1. The Offeror is not a Joint Venture.

OR

- ☐ B2. The Offeror is a Joint venture and each member of the Joint Venture must provide the Standing Offer Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

Solicitation No. - N° de l'invitation
W6399-22LI26/001/BY
Client Ref. No. - N° de réf. du client
W6399-22LI26

Amd. No. - N° de la modif.
File No. - N° du dossier
275BY. W6399-22LI26

Buyer ID - Id de l'acheteur
275BY
CCC No./N° CCC - FMS No./N° VME

ANNEX E: BID EVALUATION PROCESS (PHASE I) FOR THE GUIDED PRECISION AERIAL DELIVERY SYSTEM

(See Attachment II)

ANNEX F: BID EVALUATION PROCESS (PHASE II) – DEMONSTRATION OF PERFORMANCE
(See Attachment III)

**ANNEX G: OPERATIONAL PERFORMANCE AND TECHNICAL SPECIFICATIONS FOR THE GUIDED
PRECISION AERIAL DELIVERY SYSTEM**

(See Attachment IV)

ANNEX H: FINANCIAL EVALUATION

Firm prices must be submitted as per the Table 1 and Table 2 :
Numbers below are estimates used for evaluation purposes only.

Table 1 : Initial Contract Years

Item		Year 1			Year 2			Year 3		
	UOI	Estimated Quantities	Price	Extended Price	Estimated Quantities	Price	Extended Price	Estimated Quantities	Price	Extended Price
Small GPADS Multi-Use	Each	7			7			2		
Small GPADS Single-Use	Each	20			10			2		
Medium GPADS Multi-Use	Each	7			7			2		
Medium GPADS Single-Use	Each	20			10			2		
Handheld Remote Controllers	Each	8			6			1		
Mission Planning Software	Lot	1			1			1		
Training	Each	8			6			6		
Pre-pack Inspection - small	Each	150			150			150		
Pre-pack Inspection - medium	Each	150			150			150		
Assembly - small	Each	30			30			30		
Assembly - medium	Each	30			30			30		
Packing - small	Each	150			150			150		
Packing - medium	Each	150			150			150		
Repair	Hours	100			100			100		
Sewing	Hours	100			100			100		

Manufacturer's Recommended Spare Parts List (MRSPL)	Lot	1				1				1		
Manufacturer's Recommended Support Equipment List (MRSEL)	Lot	1				1				1		
Technical Data Package (TDP)	Lot	1				1				1		

Table 2 : Option Years

Item	UOI	Option Year 1			Option Year 2			Option Year 3		
		Quantity	Price	Extended Price	Quantity	Price	Extended Price	Quantity	Price	Extended Price
Small GPADS Multi-Use	Each	2			2			2		
Small GPADS Single-Use	Each	2			2			2		
Medium GPADS Multi-Use	Each	2			2			2		
Medium GPADS Single-Use	Each	2			2			2		
Handheld Remote Controllers	Each	1			1			1		
Mission Planning Software	Lot	1			1			1		
Training	Each	2			2			2		
Pre-pack Inspection - Sm	Each	150			150			150		
Pre-pack	Each	150			150			150		

**STATEMENT OF WORK
FOR THE
GUIDED PRECISION AERIAL DELIVERY SYSTEM**

1.0 SCOPE

1.1 Purpose

The purpose of this statement of work is to define the scope and requirements that apply to the Standing Offer for provision of Guided Precision Aerial Delivery Systems (GPADS) to the Department of National Defence (DND).

1.2 Background

DND has a requirement for parachute-based systems that can provide autonomous precision delivery of equipment and supplies to personnel on the ground.

1.3 Acronyms

DND	Department of National Defence
MPN	Manufacturer's Part Number
MRSEL	Manufacturer's Recommended Support Equipment List
MRSPL	Manufacturer's Recommended Spare Parts List
NATO	North Atlantic Treaties Organization

2.0 DELIVERABLES

The Offeror must deliver:

- (a) Initial information on a one-time basis within two (2) months of Standing Offer Award or prior to the first delivery, whichever is first, as follows:
 - i. A Technical Data Package in accordance with Section 2.3;
 - ii. An outline for the training to be delivered in accordance with Section 2.4;
 - iii. A Manufacturer's Recommended Spare Parts List (MRSPL) to include the following information for each item (MS Word or PDF format):
 - a. Item Name and Description;
 - b. NCAGE;
 - c. Manufacturer Part Number (MPN);
 - d. NATO Stock Number (if available);
 - e. Proposed quantity;
 - f. Price; and
 - g. Size/Weight;
 - iv. A Manufacturer's Recommended Support Equipment List (MRSEL) (e.g., packing towers, maintenance and repair kits, etc.) to include the following information for each item (MS Word or PDF format):
 - a. Item Name and Description;
 - b. NCAGE;
 - c. Manufacturer Part Number (MPN);
 - d. NATO Stock Number (if available);
 - e. Proposed quantity;
 - f. Price; and
 - g. Size/Weight;

- (b) The following as detailed in the orders against the Standing Offer:
 - i. Equipment in accordance with the Operational Performance and Technical Specification at Annex B as follows:
 - a. GPADS, delivered in a "Ready-to-Use" configuration following removal of packaging and delivery inspection; and
 - b. Handheld Remote Controllers;
 - ii. Mission planning software;
 - iii. Training in accordance with Section 2.4;
 - iv. Spare parts from the MRSPL; and
 - v. Support Equipment from the MRSEL;

- (c) Parachute Rigging Services on an "as-and-when-requested" basis in accordance with Section 2.5.

2.1 Estimated Forecasted Demand

The estimated forecasted demand is given at Appendix 1.

2.2 Standing Offer Kick-Off Meeting

The Offeror must hold a kickoff meeting at its facility or by teleconference, as arranged with Procurement Authority, within four to six (4-6) weeks of Standing Offer award. This meeting will be used to introduce the DND project team and to discuss production timelines, QA processes, and delivery options and locations. DND will be responsible for all travel and associated costs for DND personnel attending the meeting.

2.3 Technical Data Package

The Offeror must provide an initial technical data package, in English, to DND as follows:

- (a) Five (5) hard copies and Four (4) electronic copies (MS Word or PDF format) of the Operators Manual. The manual must contain a physical and functional description of both system payload variants and all incorporated equipment and fittings plus the following:
 - i. Instructions on care, cleaning and routine maintenance;
 - ii. Usage instructions and pre-drop preparations;
 - iii. Packing procedures;
 - iv. Safety warnings and emergency procedures;
 - v. Troubleshooting procedures; and
 - vi. Storage instructions.
- (b) Five (5) hard copies and Four (4) electronic copies (MS Word or PDF format) of the Maintenance Manual to the DND Technical Authority. The manual must include:
 - i. A detailed description and illustrated parts list in a top-down breakdown format including the following for each item:
 - a. Item Name and Description;
 - b. NCage;
 - c. Manufacturer Part Number (MPN);
 - d. NATO Stock Number (if available); and
 - e. Shelf Life (if applicable);
 - ii. List of replaceable components (including part numbers where applicable); and
 - iii. The procedures, parts and special tools necessary to conduct all first and second line repairs.
- (c) Safety Recalls - Notice of safety recalls must be provided to each customer delivery location and the TA throughout the life expectancy of the GPADS.

2.4 Training

The Offeror must provide training, in English, on the GPADS as follows:

- (a) Training to include the following subject areas (minimum);
 - i. Daily/routine operator maintenance;
 - ii. Inspection and pre-drop checks;
 - iii. Packing;
 - iv. Troubleshooting; and
 - v. Servicing and replacing components;
- (b) Training at the Offeror's facility as follows:
 - i. Training for up to six (6) DND candidates;
 - ii. Training to be five (5) to seven (7) days, eight (8) hours per day, depending on the DND-approved course content;
 - iii. Offeror to provide all equipment, accessories and consumables required; and
 - iv. For each course, each candidate is to be provided with a copy of the respective GPADS training course and manuals (as required) in both hard copy and in electronic format (MS Word, MS PowerPoint or PDF).

2.5 Parachute Rigging Services

The Offeror must provide, on an as-and-when-requested basis by DND, rigging services to include the following:

- (a) Pre-pack Inspection;
- (b) Assembly;
- (c) Packing;
- (d) Repair (Rigger hourly rate); and
- (e) Sewing (including Rigger).

All rigging services must be completed at the Offeror's facility. Requests for Rigging Services will be authorized in advance by the PA through the issue of a Call-Up. No work is to commence until the signed Call-Up is received authorizing the services to be performed.

APPENDIX 1 ESIMATED FORECASTED DEMAND

Item	Unit of Issue	Year 1	Year 2	Year 3	Option Year 1	Option Year 2	Option Year 3
Initial Information							
Technical Data Package	Lot	1	N/A	N/A	N/A	N/A	N/A
Training Outline	Lot	1	N/A	N/A	N/A	N/A	N/A
MRSPL (List only)	Lot	1	N/A	N/A	N/A	N/A	N/A
MRSEL (List only)	Lot	1	N/A	N/A	N/A	N/A	N/A
Equipment, Software and Training							
Small GPADS Multi-Use	Each	7	7	2	2	2	2
Small GPADS Single-Use	Each	20	10	2	2	2	2
Medium GPADS Multi-Use	Each	7	7	2	2	2	2
Medium GPADS Single-Use	Each	20	10	2	2	2	2
Handheld Remote Controllers	Each	8	1	1	1	1	1
Mission Planning Software	Lot	1	1	1	1	1	1
Training	Each	8	6	6	2	2	2
Parachute Rigging Services							
Pre-pack Inspection – Small	Each	150	150	150	150	150	150
Pre-pack Inspection – Medium	Each	150	150	150	150	150	150
Assembly – Small	Each	30	30	30	30	30	30
Assembly – Medium	Each	30	30	30	30	30	30
Packing – Small	Each	150	150	150	150	150	150
Packing – Medium	Each	150	150	150	150	150	150
Repair	Hours	100	100	100	100	100	100
Sewing	Hours	100	100	100	100	100	100
MRSPL							
Parts list and demand to be added at time of award							
MRSEL							
Equipment list and demand to be added at time of award							

**BID EVALUATION (PHASE I)
FOR THE
GUIDED PRECISION AERIAL DELIVERY SYSTEM**

1.1 Instructions

Bidders will be evaluated in accordance with the criteria detailed in this Annex. Mandatory requirements are identified by the word "must". All mandatory requirements must be met. In the Compliance Matrix (Table 1), the Bidder must indicate compliance (Yes/No) for each item and provide a reference (e.g., page number, section, etc.) in the bid where information pertaining to compliance can be found. Note that by circling "No" to any one compliance item will result in the bid being deemed non-compliant and given no further consideration.

1.2 Bid Evaluation

DND will assemble a Technical Evaluation Team that will include DND subject matter experts, led by the Technical Authority, who will evaluate the bids in accordance with the mandatory requirements in Table 1. The evaluation will be based upon on the supplied information only. All Mandatory Requirements must be met or the bid submission will be deemed non-compliant and will be given no further consideration. Failure to provide sufficient detail in the bid submission to evaluate the proposal against the Mandatory Requirements may also deem the bid non-compliant.

1.3 Documentation

Documentation provided with the bid as proof of compliance may include any or all of the following:

- (a) A brochure that details the components and operating characteristics of the equipment;
- (b) The equipment Operator's Manual;
- (c) Drawing or schematic which clearly depicts the product's dimensions and scale; and
- (d) Any additional documentation that provides product information.

Table 1: Compliance Matrix

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
1	2.1	Expertise and Proven Design The GPADS must be an integrated commercial-off-the-shelf or military-off-the-shelf solution with technology that is mature and proven successful.	The Bidder must provide: (1) Written confirmation that they have been in the business of developing, manufacturing and/or selling GPADS for a minimum of five	Yes / No	

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
		<p>To be compliant, the Bidder must be an established GPADS system manufacturer that has significant experience in GPADS for military organizations as follows:</p> <p>(a) Manufacturer Qualifications -. The Bidder must have been in the business of developing, manufacturing and/or selling GPADS for a minimum of five (5) years; and</p> <p>(b) Proven Design - The GPADS being offered must be based upon a Commercial-Off-The-Shelf (COTS) or Military-Off-The -Shelf (MOTS) product that is in current production and, at time of bid submission must be in use by a American, British, Canadian or Australian (ABCA) military organization.</p>	<p>(5) years.</p> <p>AND</p> <p>(2) Contract information including award dates, models and quantities delivered that confirms the GPADS being offered is based upon a Commercial-Off-The-Shelf (COTS) or Military-Off-The -Shelf (MOTS) product that is in current production and, at time of bid submission is in use by a ABCA military organization.</p> <p>Where the Bidder is an authorized distributor, the experience and sales must reflect that of the GPADS manufacturer.</p>		
2	2.2	<p><u>Deployability</u></p> <p>The GPADS must be designed and verified for release from the United States Military C-130 Hercules Aircraft, models H and J.</p>	The Bidder must provide documentation for all variants and versions of the GPADS being offered that confirms they can and have been deployed from the United States Military C-130 Hercules Aircraft, models H and J.	Yes / No	
OPERATIONAL PERFORMANCE REQUIREMENTS					
3	2.3.1	<p><u>Operational Performance</u></p> <p>The GPADS must:</p> <p>Be available in two (2) payload variants as follows:</p> <p>i. Small Payload: 90-318 kg (200-700 lbs); and</p> <p>ii. Medium Payload: 295-1090 kg (650-2400 lbs);</p>	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS is available in two (2) payload variants as specified in Section 2.3.1(a).	Yes / No	

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
	(b)	Have release and flight characteristics as follows: i. Release speed: No less than 150 knots indicated airspeed; ii. Release Altitude at maximum payload as follows: a. Small Payload variant at 318 kg (700 lbs): 1. Minimum: no more than 1067 m (3500 ft) Above Ground Level (AGL); and 2. Maximum: no less than 7620 m (25,000 ft) above Mean Sea Level (MSL); b. Medium Payload variants at 1090 kg (2400 lbs): 1. Minimum: no more than 1524 m (5000 ft) AGL; and 2. Maximum: no less than 7620 m (25,000 ft) above MSL; iii. Minimum Glide Ratio: 2.8;	The Bidder must provide results of tests/drops that confirm the GPADS variants have the release speed, altitude and glide ratio specified in Section 2.3.1(b).	Yes / No	
	(c)	Following programming and release from the aircraft, autonomously deliver the payload to the programmed destination without operator intervention;	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS permits autonomous delivery as specified in Section 2.3.1(c).	Yes / No	
	(d)	Have redundant navigations systems including the following: i. Feeds from (2) two or more geo-positioning satellite systems; and ii. Internal inertial navigation system or an equivalent navigation system that does not	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS has redundant navigation systems as specified in Section 2.3.1(d).	Yes / No	

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
		require a GPS connection; Land safely without damage to the payload as follows:			
	(e)	i. Within a Circular Error Probability (CEP) of 150 m (164 yds) of the programmed landing destination; and ii. On varied terrains from flat to extremely uneven and slopes up to 30 degrees from horizontal;	The Bidder must provide results of tests/drops that confirm the GPADS variants can land safely as specified in Section 2.3.1(e).	Yes / No	
	(f)	Permit programming, release and operation from the aircraft by the following deployment methods: i. Static line; and ii. Drogue set.	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS has the deployment methods specified in Section 2.3.1(f).	Yes / No	
4	2.3.2	<u>Climatic Conditions</u> The GPADS must:			
	(a)	Operate under the climatic conditions experienced in high altitude parachuting in temperatures ranging from -50°C to +50°C;	The Bidder must provide results of tests/drops that confirm the GPADS variants can operate under the climatic conditions as specified in Section 2.3.2(a).	Yes / No	
	(b)	Not be susceptible to degradation in performance due to rapid temperature changes such as that experienced when exiting aircraft at high altitude and during rapid descent from high altitude.	The Bidder must provide results of tests/drops that confirm the GPADS variants are not susceptible to degradation in performance due to rapid temperature changes as specified in Section 2.3.2(b).	Yes / No	
5	2.3.3	<u>Reliability and Sustainability</u> The GPADS must:			
	(a)	Have a robust design for use in day to day training and operations;	The Bidder must provide written confirmation by circling "Yes" that the GPADS variants have a robust design as specified in Section 2.3.3(a).	Yes / No	
	(b)	Withstand exposure to the following:	The Bidder must provide written	Yes / No	

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
6		i. Sand, dirt and water; ii. Oils and lubricants; and iii. Commonly used cleaning detergents;	confirmation by circling "Yes" that the GPADS variants can withstand exposure to various contaminants as specified in Section 2.3.3(b).		
	(c)	Be constructed from materials as follows: i. Resist fungal growth; and ii. High quality non-porous, ultra-violet resistant canopy cloth.	The Bidder must provide technical data and confirmation by circling "Yes" that the GPADS variants are constructed from materials as specified in Section 2.3.3(c).	Yes / No	
	2.3.4	<u>Maintenance</u> The GPADS must have minimal operator maintenance and be readily repairable (e.g., within a 30 minute time period) with the use of common hand tools.	The Bidder must provide written confirmation by circling "Yes" that the GPADS variants have minimal operator maintenance as specified in Section 2.3.4.	Yes / No	
7	2.4	<u>Technical Requirements</u> The Technical requirements for the GPADS are as follows:			
	(a)	The GPADS Small Payload Variant must: i. Be available in both Multi-Use and Single-Use versions; and ii. Have a maximum weight (ready-to-use configuration) of no more than 34 kg (75 lbs);	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS small payload variant is compliant with the requirements specified in Section 2.4(a).	Yes / No	
	(b)	The GPADS Medium Payload Variant must: i. Be available in both Multi-Use and Single-Use versions; and ii. Have a maximum weight (ready-to-use configuration) of no more than 91 kg (200 lbs).	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS medium payload variant is compliant with the requirements specified in Section 2.4(b).	Yes / No	
8	2.5	<u>Handheld Remote Controller</u> The GPADS must have a Handheld Remote Controller as follows:			
	(a)	Permits pre-release programming of single and multiple GPADS;	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS handheld	Yes / No	

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
			remote controller permits pre-release programming of single and multiple GPADS.		
	(b)	Permits wireless remote monitoring, control and reprogramming of the GPADS while in flight including: i. Utilizes encrypted communications between the Handheld Remote Controller and the GPADS; ii. Provides simultaneous connection to a minimum of ten (10) GPADS from a single controller; and iii. Has a minimum range of 25 km (15.6 miles);	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS handheld remote controller is compliant with the requirements specified in Section 2.5(b).	Yes / No	
	(c)	Has a lightweight and compact design that can be carried by a single operator on the ground or while parachuting in conjunction with the GPADS.	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS handheld remote controller has the compact design as specified in Section 2.5(c).	Yes / No	
9	2.6	Mission Planning Software The GPADS must have Mission Planning Software that permits programming of the following:			
	(a)	Land zone including landing in a specific direction (i.e., Road Landing”);	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS Mission Planning Software permits programming landing zones as specified in Section 2.6(a).	Yes / No	
	(b)	Establishing “No Fly” and “No Land” Zones;	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS Mission Planning Software permits programming no-	Yes / No	

Item #	Annex G Ref.	Requirement	Proof of Compliance	Compliant (Circle One)	Bid Reference
			fly and no-land zones as specified in Section 2.6(b).		
	(c)	Flight mode characteristics thereby allowing for accompanying parachutists to fly with the system;	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS Mission Planning Software permits programming flight mode characteristics as specified in Section 2.6(c).	Yes / No	
	(d)	Landing zone terrain obstacle avoidance.	The Bidder must provide technical data, including that specified in Section 1.3 of this Annex and any other documentation that is required, to confirm the GPADS Mission Planning Software permits programming landing zone terrain obstacle avoidance.	Yes / No	

2.0 PHASE II: DEMONSTRATION OF PERFORMANCE

2.1 Demonstration Scheduling

Bidders found compliant at Phase I will be asked to demonstrate, to DND/PSPC, that their GPADS meet the operational performance requirements specified in Annex F. To that end, Bidders must provide with their bid three (3) alternate five (5) day (Monday to Friday) windows for conduct of the demonstration as well as the proposed location. All demonstrations will be conducted within the window of thirty (30) to ninety (90) days following bid closure. The final dates for the Demonstration will be determined by the DND Technical Authority based upon the dates proposed by all compliant Bidders.

Date 1: _____ Location 1: _____

Date 2: _____ Location 2: _____

Date 3: _____ Location 3: _____

2.2 Demonstration

The Demonstration of Performance must be conducted by the Bidder in accordance with the DND specified requirements at Annex F. During the demonstration, DND Subject Matter Experts (SMEs) will observe and evaluate (score) the Bidders GPADS against the criteria specified at Annex F. Following completion of all demonstrations, the evaluated scores will be combined with the bid price to determine the GPADS that offers the best value to DND.

Note: DND reserves the right to waive the Demonstration of Performance following Phase I should there only be one compliant bid.

**EVALUATION PROCESS (PHASE II)
AND
DEMONSTRATION OF PERFORMANCE
FOR THE
GUIDED PRECISION AERIAL DELIVERY SYSTEM**

1.0 GENERAL

This document outlines the evaluation process and demonstration of performance for the Guided Precision Aerial Delivery System (GPADS).

2.0 EVALUATION PROCESS (PHASE II)

The evaluation process will be conducted in phases as follows:

- (a) Part I: Demonstration of Performance;
- (a) Part II: Determination of Technical Merit Score;
- (b) Part III: Determination of Total Score; and
- (c) Part IV: Standing Offer Award.

2.1 Part I: Demonstration of Performance

The demonstration will be conducted by the Bidder in accordance with the requirements detailed at Section 3.0 of this Annex. DND Evaluators will both witness the demonstrations and evaluate the systems being demonstrated in accordance with the criteria established in this Annex. The intent of the demonstration is to provide the DND Evaluators with sufficient familiarization of the systems being demonstrated such that they can provide a non-subjective evaluation of the Bidder's products being demonstrated. Each of the DND Evaluators will have different areas of expertise, but combined they will cover the four (4) areas to be evaluated as follows:

- (a) Rigging including:
 - i. Packing procedures;
 - ii. Load attachment procedures; and
 - iii. Programming the system;
- (b) Aircraft pre-flight procedures including:
 - i. Jump Master pre-flight inspections;
 - ii. System re-programming; and
 - iii. Dispatch;
- (c) In-Flight including:
 - i. Deployment;
 - ii. Control system on/system lock;
 - iii. Canopy flight procedures;
 - iv. Landing procedures; and
 - v. Hand controller operation;
- (d) Ground Recovery including:
 - i. Disconnecting; and

- ii. System zeroing; and
- iii. Permanently disabling the system.

2.2 Part II: Determination of Technical Merit Score

The Technical Merit Score (out of 100) is determined from the evaluated points achieved in the Demonstration of Performance as follows:

$$\text{Technical Merit Score (Out of 100)} = (\text{Evaluated Points} / \text{Total Points Available}) \times 100$$

The Evaluated Points will be the average of the points achieved for each of the four systems in the Demonstration of Performance. The Total Points Available for each system is 258 as follows:

Test	Maximum Points
Rigging	
Packing Procedures	36
Load Attachment Procedures	18
Programming the System	36
Aircraft pre-flight procedures	
Jump Master pre-flight inspections	12
System re-programming	12
Dispatch	12
In-Flight procedures	
Deployment	12
Control system on/system lock	12
Canopy flight procedures	24
Landing procedures	24
Hand controller operation	30
Ground recovery procedures	
Disconnecting	18
Zeroing the system	6
Permanently disabling the system	6
Total	258

2.3 Part III: Determination of Total Score

The proposal price is the sum of all costs associated with the procurement of the GPADS for all years (Annex A) assuming all options are exercised. The lowest price of the proposals becomes the standard by which the remainder of the proposals are evaluated. Each proposal is evaluated by taking the lowest proposal price and dividing it by the price of the proposal being evaluated, then multiplying this ratio by 100 in order to get a score out of 100, as follows:

$$\text{Price Score} = 100 \times (\text{Lowest Proposal Price} / \text{Current Proposal Price})$$

The lowest price of the proposals will have a Price Score of 100, and the remainder of the proposals will have price score that is a fraction of 100 based on how much they differ from the lowest price proposal. Each proposal's Technical Merit and Price Scores are then combined to obtain a Total Score, with the highest overall score representing the proposal with the best value to DND. The assigned weighting factors (70% Technical and 30% Price) represents the importance that DND has placed on the functionality of the GPADS. The formula to calculate the total score for each compliant bid proposal is as follows:

$$\text{Total Score} = (70\% \times \text{Technical Merit Score}) + (30\% \times \text{Price Score})$$

2.4 Part IV: Standing Offer Award

The bid proposal that receives the highest total score will be recommended for award of the Standing Offer (Annex A).

3.0 **DEMONSTRATION OF PERFORMANCE**

The requirements for the Demonstration of Performance are given in the following sections.

3.1 DND Evaluators

There will be six-eight (6-8) DND Evaluators for each demonstration. The DND Evaluators will be subject matter experts (SMEs) with extensive experience in parachute operations. Each DND Evaluator will provide an evaluation at the completion of the Demonstration for each of the Bidder's GPADS, which will be recorded on the DND Evaluator Assessment form given at Appendix 1. The score assigned to the Bidder will be the sum of the individual assessments from the DND Evaluators. The evaluations will be captured by individual ratings of various criteria using a non-biased approach to collecting subjective assessment. A 7-point scale will be used to provide a clear and understandable quantification of the DND Evaluator's perceptions in a controlled manner. The 7-point scale is defined as follows:

ASSESSMENT SCALE		SCORE
Completely Unacceptable	The GPADS did not meet any requirements for the mission and had severe limitations that would prevent completion of the mission.	0
Reasonably Unacceptable	The GPADS met the minimal requirements for the mission and had some limitations that may prevent completion of the mission.	1
Barely Unacceptable	The GPADS met some of the requirements for the mission and performed in a manner that that may prevent completion of the mission.	2
Borderline	The GPADS met some of the requirements for the mission and performed in a manner that would permit completion of the mission with significant limitations on range of use.	3
Barely Acceptable	The GPADS met most of the requirements for the mission and performed in a manner that would permit completion of the mission with few limitations on range of use.	4
Reasonably Acceptable	The GPADS met most of the requirements for the mission and performed well with only minor limitations.	5
Completely Acceptable	The GPADS met or exceeded all requirements for the mission and performed in every way expected.	6

3.2 Demonstration Program

The demonstration will be conducted at the Bidder's facility over a number of days as follows:

- (a) Day 1: Familiarization training of all aspects of the GPADS;
- (b) Day 2: On-ground demonstration including Rigging, Programming and Aircraft loading;
- (c) Days 3-4: Deployment demonstration including Aircraft procedures, Deployment, Flight and Ground Recovery; and
- (d) Day 5: Contingency day in case of inclement weather.

3.3 Activities

Following the familiarization portion of the demonstration program on Day 1, all aspects of the demonstration are to be conducted by the Bidder with DND observing and evaluating. The demonstration must cover all areas of evaluation as identified in the DND Evaluator Assessment form given at Appendix 1. Failure to demonstrate an area of evaluation will result in a zero (0) score for that area. If there are significant differences between the small and medium GPADS, both must be demonstrated. Similarly, if there are significant differences between the single-use and multi-use GPADS, both must also be demonstrated. When in doubt, the Bidder is advised to demonstrate all of the systems (i.e., small/medium and single/multi-use). The demonstration activities must include the following.

3.3.1 Day 2: On-Ground Demonstration

The on-ground demonstration must include the following:

- (a) Packing procedures to include:
 - i. Layout of system;
 - ii. Static line configuration;
 - iii. Drogue set configuration (Kill/No Kill line); and
 - iv. Packing processes as follows:
 - a. Pro; and
 - b. Flat;
 - v. Deployment bags and shroud wrapping;
- (b) Load attachment procedures as follows:
 - i. Attachment locations;
 - ii. Securing the load; and
 - iii. Pre-flight inspection requirements of the system and attachments;
- (c) Programming the system as follows:
 - i. Landing location (latitude/longitude, Universal Transverse Mercator (UTM), Military Grid Reference System (MGRS) or a combination of these);
 - ii. Using the input screen for programming flight parameters (e.g., flight path, landing location, drogue release altitude, etc.);
 - iii. Programming terrain/obstacle avoidance;
 - iv. Default settings;
 - v. Checking battery life and memory back-up battery; and
 - vi. Manual and/or digital system programming options.

3.3.2 Day 3-4: Deployment Demonstration

The deployment demonstration must include the following:

- (a) Aircraft pre-flight procedures as follows:
 - i. Jump Master pre-flight inspections to include:
 - a. Parachute and system attachment; and
 - b. Confirming the system is programmed and “ready to fly”;
 - ii. Re-programming mission profile as follows:
 - a. Manual and/or digital programming; and
 - b. Barometer sensor/timer programming;
 - iii. Dispatch methods to include:
 - a. Static line; and/or
 - b. Drogue set;

- (b) In-flight procedures as follows:
- i. Deployment procedures as follows:
 - a. Drogue kill line placement; and
 - b. Pilot chute post open activities (cut away/collapse/remain open);
 - ii. Control system on/system lock procedures as follows:
 - a. Time to lock on to GPS (this may be demonstrated prior to flight); and
 - b. Malfunction default procedures due to no GPS lock due to low battery, etc. (i.e., How does it land?);
 - iii. Canopy flight procedures as follows:
 - a. Glide ratio/weight, rate of descent, etc.;
 - b. Predicted flight pattern;
 - c. Avoiding no fly zones; and
 - d. Terrain avoidance (this may be demonstrated prior to flight);
 - iv. Landing procedures as follows:
 - a. Landing pattern (downwind, base, final);
 - b. Off programmed landing zone procedure (i.e., Does it keep trying to reach objective or does it land?);
 - c. Canopy function post landing (does it “Flare/apply brakes”); and
 - d. Landing accuracy within stated tolerance;
 - v. Hand controller operation as follows:
 - a. Identifying that controller has interfaced with GPADS;
 - b. Reprogramming GPADS while in flight;
 - c. Override/manually flying the GPADS;
 - d. Switching from manual back to automated drop; and
 - e. Identify the 3D information (location) of the cargo on the controller;
- (c) Ground Recovery procedures as follows:
- i. Disconnecting the following
 - a. Parachute;
 - b. GPADS system; and
 - c. Payload;
 - ii. Zero the system/factory reset; and
 - iii. Permanently disabling the system.

3.3.3 Drop Configurations

The following drop configurations, as a minimum, are to be demonstrated:

Serial	GPADS Variant	Payload	Flight Plan
1	Small (Single or Multi-Use)	181 kg (400 lbs)	Release Altitude: 5,000 ft (High Opening)
2	Small (Single or Multi-Use)	273 kg (600 lbs)	Release Altitude: 10,500 ft (Low Opening) Free Fall: 2,500 ft Deploy Altitude: 8,000 ft
3	Medium (Single or Multi-Use)	545 kg (1200 lbs)	Release Altitude: 7,000 ft (High Opening)
4	Medium (Single or Multi-Use)	909 kg (2000 lbs)	Release Altitude: 12,000 ft (Low Opening) Free Fall: 4,000 ft Deploy Altitude: 8,000 ft

Scheduling the Serials is at the discretion of the Bidder; however, for efficiency and ease of evaluation, it is recommended that Serials 1 & 3 be conducted in one flight and Serials 2 & 4 in a second flight.

APPENDIX 1 DND EVALUATOR ASSESSMENT

Evaluator:	Bidder:
Date:	GPADS Model (circle one): Small or Medium
	GPADS Type (circle one): Single Use or Multi-Use

ASSESSMENT SCALE		SCORE
Completely Unacceptable	The GPADS did not meet any requirements for the mission and had severe limitations that would prevent completion of the mission.	0
Reasonably Unacceptable	The GPADS met the minimal requirements for the mission and had some limitations that may prevent completion of the mission.	1
Barely Unacceptable	The GPADS met some of the requirements for the mission and performed in a manner that that may prevent completion of the mission.	2
Borderline	The GPADS met some of the requirements for the mission and performed in a manner that would permit completion of the mission with significant limitations on range of use.	3
Barely Acceptable	The GPADS met most of the requirements for the mission and performed in a manner that would permit completion of the mission with few limitations on range of use.	4
Reasonably Acceptable	The GPADS met most of the requirements for the mission and performed well with only minor limitations.	5
Completely Acceptable	The GPADS met or exceeded all requirements for the mission and performed in every way expected.	6

Day 2: On-Ground Demonstration							
The Evaluator will rate the following:	☹			☺			☺
	0	1	2	3	4	5	6
Packing Procedures							
Layout of system;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Static line configuration;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drogue set configuration (Kill/No Kill line);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packing process as follows:							
a. Pro; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Flat;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deployment bags and shroud wrapping;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Load Attachment Procedures							
Attachment locations;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Securing the load;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pre-flight inspection requirements of the system and attachments;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Programming the System							
Landing location (latitude/longitude, Universal Transverse Mercator (UTM), Military Grid Reference System (MGRS) or a combination of these);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Using the input screen for programming flight parameters (e.g., flight path, landing location, drogue release altitude, etc.);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Programming terrain/obstacle avoidance;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Default settings;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Checking battery life and memory back-up battery;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manual and/or digital system programming options;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total	_____ out of 90						
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Day 3-4: Deployment Demonstration							
The Evaluator will rate the following:	☹			☹			☺
	0	1	2	3	4	5	6
Aircraft Pre-Flight Procedures							
Jump Master pre-flight inspections to include:							
a. Parachute and system attachment; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Confirming the system is programmed and “ready to fly”;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Re-programming mission profile as follows:							
a. Manual and/or digital programming; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Barometer sensor/timer programming;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dispatch methods to include:							
a. Static line; and/or	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Drogue set;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In-Flight Procedures							
Deployment procedures as follows:							
a. Drogue kill line placement; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Pilot chute post open activities (cut away/collapse/remain open);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Control system on/system lock procedures as follows:							
a. Time to lock on to GPS (this may be demonstrated prior to flight); and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Malfunction default procedures due to no GPS lock due to low battery, etc. (i.e., How does it land?);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Canopy flight procedures as follows:							
a. Glide ratio/weight, rate of descent, etc.;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Predicted flight pattern;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Avoiding no fly zones; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Terrain avoidance (this may be demonstrated prior to flight);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landing procedures as follows:							
a. Landing pattern (downwind, base, final);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Off programmed landing zone procedure (i.e., Does it keep trying to reach objective or does it land?);	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Canopy function post landing (does it “Flare/apply brakes”); and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Landing accuracy within stated tolerance;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hand controller operation as follows:							
a. Identifying that controller has interfaced with GPADS;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Reprogramming GPADS while in flight;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Override/manually flying the GPADS;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Switching from manual back to automated drop; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Identify the 3D information of the cargo on the controller;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ground Recovery Procedures							
Disconnecting the following							
a. Parachute;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. GPADS system; and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Payload;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero the system/factory reset;	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanently disabling the system.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total	_____ out of 168						

OPERATIONAL PERFORMANCE AND TECHNICAL SPECIFICATIONS FOR THE GUIDED PRECISION AERIAL DELIVERY SYSTEM

1.0 GENERAL

1.1 Scope

This specification defines the operational performance and technical requirements for the Guided Precision Aerial Delivery System (GPADS).

1.2 Definitions

Circular Error Probability	The radius of a circle, centered about the mean, whose boundary is expected to contain 80% of the landings.
Multi-Use	Made of durable material that is designed to be 100% recoverable, able to handle the day to day rigors of operation and capable of multiple drops without degradation in performance.
Payload	For the purposes of this requirement, payload refers to the all-up weight of the system going on to the aircraft including the GPADS and the suspended weight (i.e., cargo).
Road Landing	Ability to land in a designated straight line or path.
Single-Use	Designed to be prevented from further use after the first drop as follows: <ul style="list-style-type: none">– Through the construction and/or material selection of critical components of the system, to be fatally damaged on impact to the ground, or easily destroyed by the users should the latter fail, to the point of preventing recovery; or– Through critical hardware and/or software components of the system that can be autonomously or remotely disabled, preventing the system from re-use.

1.3 Acronyms

AGL	Above Ground Level
GPADS	Guided Precision Aerial Delivery System
GPS	Global Positioning System
MSL	Mean Sea Level

2.0 REQUIREMENTS

2.1 Expertise and Proven Design

The GPADS must be an integrated commercial-off-the-shelf or military-off-the-shelf solution with technology that is mature and proven successful.

2.2 Deployability

The GPADS must be designed and verified for release from the United States Military C-130 Hercules Aircraft, models H and J.

2.3 Operational Performance Requirements

The Operational Performance requirements for the GPADS are given in the following sections.

2.3.1 Operational Performance

The GPADS must:

- (a) Be available in two (2) payload variants as follows:
 - i. Small Payload: 90-318 kg (200-700 lbs); and
 - ii. Medium Payload: 295-1090 kg (650-2400 lbs);
- (b) Have release and flight characteristics as follows:
 - i. Release speed: No less than 150 knots indicated airspeed;
 - ii. Release Altitude at maximum payload as follows:
 - a. Small Payload variant at 318 kg (700 lbs):
 - 1. Minimum: no more than 1067 m (3500 ft) Above Ground Level (AGL); and
 - 2. Maximum: no less than 7620 m (25,000 ft) above Mean Sea Level (MSL);
 - b. Medium Payload variants at 1090 kg (2400 lbs):
 - 1. Minimum: no more than 1524 m (5000 ft) AGL; and
 - 2. Maximum: no less than 7620 m (25,000 ft) above MSL;
 - iii. Minimum Glide Ratio: 2.8;
- (c) Following programming and release from the aircraft, autonomously deliver the payload to the programmed destination without operator intervention;
- (d) Have redundant navigations systems including the following:
 - i. Feeds from (2) two or more geo-positioning satellite systems; and
 - ii. Internal inertial navigation system or an equivalent navigation system that does not require a GPS connection;
- (e) Land safely without damage to the payload as follows:
 - i. Within a Circular Error Probability (CEP) of 150 m (164 yds) of the programmed landing destination; and
 - ii. On varied terrains from flat to extremely uneven and slopes up to 30 degrees from horizontal;
- (f) Permit programming, release and operation from the aircraft by the following deployment methods:
 - i. Static line; and
 - ii. Drogue set.

2.3.2 Climatic Conditions

The GPADS must:

- (a) Operate under the climatic conditions experienced in high altitude parachuting in temperatures ranging from -50°C to +50°C; and
- (b) Not be susceptible to degradation in performance due to rapid temperature changes such as that experienced when exiting aircraft at high altitude and during rapid descent from high altitude.

2.3.3 Reliability and Sustainability

The GPADS must:

- (a) Have a robust design for use in day to day training and operations;
- (b) Withstand exposure to the following:
 - i. Sand, dirt and water;
 - ii. Oils and lubricants; and
 - iii. Commonly used cleaning detergents;
- (c) Be constructed from materials as follows:
 - i. Resist fungal growth; and
 - ii. High quality non-porous, ultra-violet resistant canopy cloth.

2.3.4 Maintenance

The GPADS must have minimal operator maintenance and be readily repairable (e.g., within a 30 minute time period) with the use of common hand tools.

2.4 Technical Requirements

The Technical requirements for the GPADS are as follows:

- (a) The GPADS Small Payload Variant must:
 - i. Be available in both Multi-Use and Single-Use versions; and
 - ii. Have a maximum weight (ready-to-use configuration) of no more than 34 kg (75 lbs);
- (b) The GPADS Medium Payload Variant must:
 - i. Be available in both Multi-Use and Single-Use versions; and
 - ii. Have a maximum weight (ready-to-use configuration) of no more than 91 kg (200 lbs).

2.5 Handheld Remote Controller

The GPADS must have a Handheld Remote Controller as follows:

- (a) Permits pre-release programming of single and multiple GPADS;
- (b) Permits wireless remote monitoring, control and reprogramming of the GPADS while in flight including:
 - i. Utilizes encrypted communications between the Handheld Remote Controller and the GPADS;
 - ii. Provides simultaneous connection to a minimum of ten (10) GPADS from a single controller; and
 - iii. Has a minimum range of 25 km (15.6 miles);
- (c) Has a lightweight and compact design that can be carried by a single operator on the ground or while parachuting in conjunction with the GPADS.

2.6 Mission Planning Software

The GPADS must have Mission Planning Software that permits programming of the following:

- (a) Land zone including landing in a specific direction (i.e., Road Landing”);
- (b) Establishing “No Fly” and “No Land” Zones;
- (c) Flight mode characteristics thereby allowing for accompanying parachutists to fly with the system; and

(d) Landing zone terrain obstacle avoidance.

Note: Updates to Mission Planning Software must be provided at no cost to DND for the life of the GPADS.