



National Defence

National Defence Headquarters
Ottawa, Ontario
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Défense nationale

Quartier général de la Défense nationale
Ottawa (Ontario)
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**SOLICITATION AMENDMENT
MODIFICATION DE
L'INVITATION**

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

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

Comments - Commentaires

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À :**

By e-mail to: - Par courriel au :

DLP53BidsReceiving.DAAT53Receptiondessoumissions@forces.gc.ca

Attention: - Attention : Martin Rheume
(BT230)

Title - Sujet Self-Propelled Articulating Booms Nacelles élévatrices articulées automotrices		Amendment No. - N° modif. 003
Solicitation No. N° de l'invitation W8476-226551/B	Date of Amendment Date de modification 21 April 2022 – 21 avril 2022	
Address enquiries to: - Adresser toute demande de renseignements à : Martin Rheume E-Mail Address - Courriel Martin.rheume@forces.gc.ca		
Destination See herein - Voir aux présentes		

Instructions: Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

Instructions : Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Delivery required Livraison exigée See herein - Voir aux présentes	Delivery offered Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Person authorized to sign on behalf of Vendor/Firm (type or print): La personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie) :	
Name - Nom	Title - Titre
Signature	Date

Solicitation Closes - L'invitation prend fin At - à : 2:00 PM - 14:00 On - le : 16 May 2022 – 16 mai 2022 Time Zone - Fuseau Horaire : Eastern Daylight ime (EDT) Heure avancée de l'Est (HAE)
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THIS SOLICITATION AMENDMENT IS RAISED TO:

1. Provide clarifications and answer to questions from potential suppliers; and
2. Amend the Purchase Description.

QUESTIONS AND ANSWERS:

Question 004	Ref: 3.6 Vehicle Accessories - c) Rear licence plate holder must be provided. Since this is not a vehicle, do you need a rear license plate holder?
Answer 004	Yes, this is a mandatory requirement.
Question 005	Ref: 3.13 Warning, Markings and Instruction Plates a) All identification, instructional, and warning labels must be bilingual or International symbols defined in SAE J1362. This is not a vehicle. Is it mandatory to meet SAE J1362 for off-road vehicles?
Answer 005	The words 'defined in SAE J1362' will be removed from the Purchase Document. Please refer to the latest version of the document dated 19 April 2022.
Question 006	Ref: 1.4 Data Table – Configuration 1: Platform Horizontal Reach 3.4.2 c) 6.10 m Would you please relax the requirement and accept 5.79 m as responsive?
Answer 006	Yes, the Purchase Document has been changed to a platform horizontal reach of 5.75 m instead of 6.10m. Please refer to the latest version of the document dated 19 April 2022.
Question 007	Ref: 4.6 Familiarization Training Q4: Do you accept virtual training due to the probability of Covid restrictions?
Answer 007	No, this is a mandatory requirement.

THIS SOLICITATION IS HEREBY AMENDED AS FOLLOWS:

1) **ANNEX A – REQUIREMENT**

Delete: PURCHASE DESCRIPTION FOR Self-Propelled Articulating Booms, dated 2022-03-25 entirely.

Insert: PURCHASE DESCRIPTION FOR Self-Propelled Articulating Booms, dated 2022-04-19.

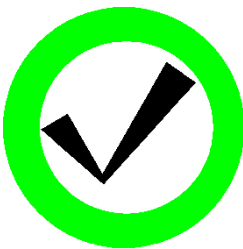
ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.



PURCHASE DESCRIPTION

FOR

Self-Propelled Articulating Booms



NOTICE

This documentation has been reviewed by the Technical Authority and does not contain controlled goods.

AVIS

Cette documentation a été révisée par l'autorité technique et ne contient pas de marchandises contrôlées.

OPI DSVPM 5 – DAVPS 5

Issued on Authority of the Chief of the Defence Staff

Publiée avec l'autorisation du chef d'état-major de la Défense

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1. SCOPE

1.1 Scope

- a) This Purchase Description covers the requirements two (2) groups of Self-Propelled Articulating Boom lifts broken down as:
 - i. **Configuration 1:** self-propelled articulating boom lift with a 9.14 metre (30 ft) platform height.
 - ii. **Configuration 2:** self-propelled articulating boom lift with a 13.72 metre (45 ft) platform height.

1.2 Instructions

- a) Requirements, which are identified by the word “**must**”, are mandatory. Deviations will not be permitted.
- b) Requirements identified with a “will” define actions to be performed by Canada and require no action/obligation on the Contractor’s part.
- c) Where “**must**” or “will” are not used, the information supplied is for guidance only.
- d) In this document “provided” **must** mean “provided and installed”.
- e) Where a technical certification is referred to in this specification, a copy of the certification or an acceptable Proof of Compliance **must** be supplied for the vehicle when requested by the Technical Authority.
- f) Metric measurements are used to define the requirement. Other measurements are for reference only and may not be exact conversions.

1.3 Definitions

- a) “**Technical Authority**” - The government official responsible for technical content of this requirement.
- b) “**Equivalent**” - Substitutes and alternatives that are equivalent in product, performance or a standard will be considered for acceptance by the Technical Authority where Proof of Compliance for equivalency for the respective requirement is provided for evaluation.
- c) “**Vehicle**” – The entire vehicle including all systems and sub-systems, in a complete manufactured state in accordance with the requirements in this Purchase Description.

1.4 Data Table

- a) The following table shows required performance and dimensions for each configurations.

Characteristic	Paragraph	Units	Configuration 1	Configuration 2
Vehicle Width	3.4.1 a)	m	1.50	1.75
Stowed Vehicle Height	3.4.2 b)	m	2.01	2.01

Platform Height	3.4.2 a)	ft.	30	45
		m	9.14	13.72
Platform Horizontal Reach	3.4.2 c)	m	5.75	7.62
Aircraft Protection Package	3.15		NO	YES

2. APPLICABLE DOCUMENTS

2.1 Applicable Documents

- a) The following documents form part of this Purchase Description. The dates of issue are those in effect on the date of release of the RFP. Canada will not be supplying these documents. Sources are as shown:

CSA B354.6 – Mobile elevating work platforms – Design, calculations, safety requirements and test methods.

3. REQUIREMENTS

3.1 Standard Design

- a) **Latest Model** - The vehicle design **must** be the manufacturer's latest model.
- b) **Industry Acceptability** - The vehicle design **must** have demonstrated industry acceptability by having been manufactured and sold commercially for at least 2 year, or be manufactured by a company that has at least 5 years' experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity.
- c) **Engineering Certification** - Original manufacturers engineering certification **must** be provided upon request for major drive train components, and major equipment systems and assemblies, to demonstrate that assemblies are used within their design limitations.
- d) **Regulations** – The vehicle **must** conform to all applicable laws, regulations and industrial standards governing manufacture, safety, noise levels and pollution in effect in Canada at the time of manufacture. International equivalent laws, regulations, and industrial standards will be accepted only if certified for equivalency by a professional engineer.
- e) **Measurements** – Values for labels and indicators provided with equipment **must** be presented in metric units, or **must** have both imperial and metric units with metric dominant.

3.2 Operating Conditions

3.2.1 Weather

- a) The vehicle **must** operate under the extremes of weather conditions found in Canada in temperatures ranging from -25 to 37° C (-13 to 99° F).

3.2.2 Terrain

- a) The vehicle **must** be capable of being operated on use-roughened concrete floors and deteriorated outdoor paved surfaces while being used in and around buildings.

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations

- a) The vehicle **must** be designed and built in accordance with the latest version of CSA B354.6.

3.3.2 Human Factors Engineering

- a) The vehicle **must** be equipped, with warning and instruction plates, non-slip walking surfaces and heat shields, for operator safety.

3.4 Performance, Ratings and Dimensions

3.4.1 Vehicle Performance and Dimensions

- a) The vehicle **must** have a maximum width equivalent or smaller than that given as "Vehicle Width" in the Data Table (paragraph 1.4)**Error! Reference source not found.**
- b) The vehicle **must** have a stowed height equivalent or smaller than that given as "Stowed Vehicle Height" in the Data Table (paragraph 1.4).
- c) The vehicles **must** be able to rotate 350 degrees about the vertical axis.

3.4.2 Boom Performance

- a) The vehicle **must** have a maximum platform height equivalent or greater than that given as "Platform Height" in the Data Table (paragraph 1.4).
- b) The platform height **must** be measured from the ground to the bottom of the platform.
- c) The vehicle **must** have a maximum horizontal reach equivalent or greater than that given as "Platform Horizontal Reach" in the Data Table (paragraph 1.4).
- d) The vehicle **must** be equipped with a self-propelled articulated boom.

3.4.3 Aerial Platform Performance

- a) The vehicle **must** be equipped with an aerial platform.
- b) The aerial platform **must** be self-levelling
- c) The aerial platform **must** be able to perform a rotation of at least 140 degrees.
- d) The platform **must** be at least 0.9 meter (3 ft.) wide.

3.5 Braking System

- a) The vehicle **must** be equipped with a braking system.

3.6 Vehicle Accessories

- a) The vehicle **must** be equipped with all available safety alarms including as a minimum a tilt alarm and a descent alarm.
- b) The vehicle **must** be equipped with a horn.
- c) Rear licence plate holder **must** be provided.

3.7 Platform Accessories

- a) The vehicle **must** be equipped with an air-line to platform for powering tools.
- b) The vehicle **must** be equipped with an AC power cord to platform.
- c) The platform **must** be equipped with a gate that can be safely secured in a closed position.
- d) The platform **must** be equipped with lockable control box cover(s).
- e) The platform **must** be equipped with a tool tray.

3.8 Lighting

- a) The vehicle **must** be equipped with LED lighting wherever possible.
- b) The vehicle **must** be equipped with an amber coloured LED beacon mounted in a location to achieve maximum visibility.
- c) The vehicle **must** be equipped with platform mounted work lights.

3.9 Electrical System

- a) Wiring **must** be protected by insulating grommets, where passing through metal.
- b) A master disconnect switch, accessible from the ground, **must** be provided in each vehicle.

3.10 Instrument

- a) The vehicle **must** be equipped with an hour meter.

3.11 Controls

- a) Each control **must** be permanently marked to identify the function, in both English and French or international symbols as defined by SAE J1362.
- b) Controls **must** not restrict the operator's field of view.

3.12 Paint

- a) All metal surfaces **must** be protected.
- b) The vehicle **must** be painted using manufacture's standard commercial paint and procedures.
- c) The prime coating **must** be a high durability, corrosion resistant type, such as an epoxy.

3.13 Warning, Markings and Instruction Plates

- a) All identification, instructional, and warning labels **must** be bilingual or International symbols.
- b) All identification, instructional, and warning labels **must** be within view of the operator.
- c) Identification information **must** include manufacturer's name, model number, serial number, and model year
- d) The vehicle identification information **must** be permanently affixed in a conspicuous and protected location.
- e) All indicators and controls **must** be permanently labelled.

3.14 Features and Accessories

- a) The following features and accessories **must** be provided on both configurations.

3.14.1 Power System

- a) The vehicle **must** be equipped with an electric motor.
- b) The vehicle **must** be equipped with maintenance free batteries.
- c) The vehicle **must** be equipped with a battery charger and state of charge indicator.

3.14.2 Cold Weather Starting Aids

- a) The cold weather starting aids **must** include as a minimum a battery blanket.

3.14.3 Drivetrain

- a) The vehicle **must** be two (2) wheel drive.

3.14.4 Tires

- a) The vehicle **must** be equipped with four (4) rough terrain non-marking foam-filled tires.

3.15 Aircraft Protection Package – Configuration 2 Only

- a) The aircraft protection package **must** be installed on Configuration 2 vehicle only.
- b) The Configuration 2 vehicle **must** be provided with the aircraft protection package to protect aircraft from potential damage by from vehicle aircraft collisions.

- c) The aircraft protection package **must** be installed by the OEM on platform.
- d) The aircraft protection package **must** include soft bumpers on the railings, proximity sensors and an automatic shutdown.

4. INTEGRATED LOGISTIC SUPPORT

4.1 ILS Deliverables -The following table indicates the ILS elements that the Contractor **must** deliver, including the medium (paper or digital), the expected means of delivery and the reference paragraph.

Element	Format/Medium	Delivered to TA	Supplied with each vehicle/ equipment	Reference Paragraph
Set of Manuals	Digital	X	X	4.2
	Paper		X	
Warranty Letter	Digital	X	X	4.3
Data Summary	Digital	X		4.4.1
Photographs	Digital	X		4.4.2

4.2 Vehicle Manuals – All manuals required for the description, operation, maintenance and repair of the complete equipment, including sub-systems, **must** be provided.

4.2.1 Operator’s Manuals

- a) The operator’s manuals **must** be bilingual (English/French).
- b) The operator’s manuals **must** include instructions for the safe operation of the vehicle.
- c) The operator’s manuals **must** include daily operator maintenance instructions/checks (including lubrication).
- d) The operator’s manuals **must** include safety warnings.
- e) The operator’s manuals **must** include hand signals (as necessary).

4.2.2 Parts Manual(s)

- a) The parts manual(s) **must** be in English (bilingual is desirable).
- b) The parts manual **must** have illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that are supplied to meet the requirements of the contract, with numbers for the itemization of the parts.

- c) The parts manual **must** have a listing for all itemized parts showing the Original Equipment Manufacturers (OEM) part number, the part name and a brief description of the item.
- d) The parts manual **must** cross reference the OEM part number to the correct illustration and item number.
- e) The parts manual **must** have a representation of bilingual warning signs and identification labels delivered on the equipment.

4.2.3 **Maintenance Manuals**

- a) The maintenance manual must be bilingual (English/French).
- b) The maintenance manual must include a troubleshooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of the steps required to correct a problem.
- c) The maintenance manual must include a listing of the necessary tolerances, torque levels, fluid volume, and special tools (including item part numbers).
- d) The maintenance manual must include information on the order of disassembly and assembly of the systems and components of the vehicle.

4.2.4 **Manual Delivery to Technical Authority**

- a) Sample manuals **must** be submitted to the Technical Authority (TA) prior to the delivery of the vehicle/trailer for each model and or sub-system for approval. Sample manuals will not be returned.
- b) One complete set of approved manuals (Operator's, Maintenance, and Parts) in electronic format **must** be delivered to the Technical Authority.

4.2.5 **Manual Delivery with Vehicle**

- a) One complete set of manuals (Operator's, Maintenance, and Parts) **must** accompany each vehicle, shipped to each location.
- b) The manuals **must** be in paper and electronic format.

4.2.6 **Electronic Format**

- a) Electronic format **must not** require installation, password and/or Internet connection to be accessed and be an unlocked PDF in a searchable format.

4.2.7 **Provisional Manuals**

- a) In the event that approved manuals are not available at the time of delivery of the equipment, manuals marked "Provisional" **must** be supplied with the equipment.
- b) The contractor **must** deliver replacement approved manuals to all destinations where Provisional manuals were delivered.

4.2.8 **Manual Supplements**

- a) The contractor **must** supply manual supplements (Operator's, Maintenance and Parts) to support dealer-installed equipment not covered in the Vehicle Manuals.
- b) Manual supplements **must** be delivered in accordance with 4.2.4 and 4.2.5.

4.2.9 **Changes to Manuals**

- a) During the period of the contract, changes to equipment, which affect the contents of manuals, **must** be reflected in the revision of the electronic and paper version of the manuals.
- b) Changes to the manuals **must** conform to the same format and presentation requirements as the original manuals.
- c) The revised electronic version of the manual **must** be sent to the Technical Authority by the Contractor.

4.3 **Warranty Letter**

- a) The warranty letter **must** include a list of all Canadian designated warranty service providers that will honour the warranty for the equipment and attachments (if applicable) procured under this contract, including the contact person and phone number at each warranty service provider.
- b) The warranty letter **must** include additional warranty coverage of sub-systems and a copy of the warranty letter from each sub-system's Original Equipment Manufacturer (OEM).
- c) The warranty letter **must** include warranty period as negotiated in the contract.
- d) The warranty letter **must** include Contractor contact information, name and phone number, for warranty support.

4.3.1 **Warranty Letter Delivery**

- a) The Contractor **must** provide a bilingual warranty letter to the Technical Authority and with each vehicle. If the Technical Authority requires the letter to be in DND format, then they will provide the Contractor a template for the DND acceptable format of the warranty letter.

4.4 **Other ILS Deliverables to Technical Authority**

4.4.1 **Data Summary**

- a) The Contractor **must** provide a bilingual Data Summary for each make/model/configuration of vehicle by completing Technical Authority's template with data and a vehicle picture.

4.4.2 **Photographs**

- a) The Contractor **must** provide photographs in colour, taken against a plain background, and in digital JPEG format with a minimum 10 megapixel resolution.
 - i. One left front three-quarter view of a completed unit **must** be provided.

- ii. One right rear three-quarter view of a completed unit **must** be provided.

4.4.3 **Special Tools List**

- a) The Contractor **must** provide an itemized list of specific special tools required for the servicing and repair of the vehicle and include:
 - i. Item name;
 - ii. Contractor's part number;
 - iii. Manufacturer's part number (OEM);
 - iv. Quantity recommended per delivery location;
 - v. Unit price; and
 - vi. Unit of issue.

4.5 **Safety Recalls and Servicing Data**

- a) Safety recalls, and manufacturer's technical service bulletins, or equivalent **must** be provided to the Technical Authority and the final delivery locations on a continuing basis, throughout the life expectancy of the vehicle or for no less than 10 years.

4.6 **Familiarization Training**

- a) The Contractor **must** perform at least 1-day (8 hours) familiarization instruction at each destination, for a maximum of 8 personnel (at each destination).
- b) The instruction **must** include the detailed operation and normal servicing of the vehicle/equipment and will be attended by CAF operators and maintainers.
- c) Familiarization instructions **must** be available in both official languages for destinations in the province of Quebec or as requested by the Technical Authority.
- d) The final dates **must** be arranged with the Technical Authority.
- e) After completion of the familiarization session, the Contractor must have a "**PROOF OF FAMILIARIZATION INSTRUCTION**" certificate signed by the consignee. The Technical Authority will supply this document in an electronic format, when requested.