



National Defence

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Défense nationale

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: National Defence Canada

We hereby offer to sell to His Majesty the King in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods and services listed herein and on any attached sheets at the price(s) set out therefore.

Proposition à : Défense nationale Canada

Nous offrons par la présente de vendre à Sa Majesté le Roi du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens et services énumérés ici et sur toute feuille ci-annexée, au(x) prix indique(s).

Comments - Commentaires

RETURN BIDS TO: RETOURNER LES SOUMISSIONS À:

By e-mail to: - Par courriel au :

DLP53BidsReceiving.DAAT53Receptiondessoumissions@forces.gc.ca

Attention: - Attention :

Brian James

Title - Sujet WILDLAND FIREFIGHTING VEHICLE WITH COMPRESSED AIR FOAM SYSTEM (CAFS)	
Solicitation No. N° de l'invitation W8476-236676/A	Date of Solicitation Date de l'invitation 08 March 2023
Address enquiries to: - Adresser toute demande de renseignements à : Brian James	
E-Mail Address - Courriel brian.james3@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 requested Livraison demandée 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 :
11 April 2023

Time Zone - Fuseau Horaire :
Eastern Daylight Time (EDT)
Heure avancée de l'Est (HAE)

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PART 1 - GENERAL INFORMATION

1.1 Requirement

- A. The Department of National Defence (DND) has a requirement to procure Five [5] Wildland Firefighting Vehicle with Compressed Air Foam System (CAFS) and ILS deliverables. Three (3) for delivery to CFB Petawawa, ON, One (1) for delivery to CFB Dundurn, SK, and One (1) for delivery to CFB Greenwood, NS. The requested delivery date is 450 days after contract award.
- B. The requirement is detailed under the article entitled Requirement of the resulting contract clauses in Part 6.

1.2 Security Requirements

- A. There is no security requirement associated with this bid solicitation.

1.3 Debriefings

- A. Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

A. All instructions, clauses and conditions identified in this document and any of its attachments by number, date, and title are either:

- (i) Set out in the [Standard Acquisition Clauses and Conditions \(SACC\) 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; or
- (ii) Included as attachments.

These documents are incorporated by reference and they form part of this document as though they were expressly set out here in full.

B. Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

C. The [2003](#) (2022-03-29), Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modification(s):

- (i) Section 02, Procurement Business Number, is deleted in its entirety;
- (ii) Section 05, Submission of bids, subsection 3, is deleted in its entirety;
- (iii) Section 05, Submission of bids, subsection 2, paragraph d., is deleted in its entirety and replaced with the following:
 - d. send its bid only to the location specified on page 1 of the bid solicitation or to the address specified in the bid solicitation.
- (iv) Section 05, Submission of bids, subsection 4, is amended as follows:

Delete: 60 days
Insert: 120 days
- (v) Section 06, Late bids, is deleted in its entirety;
- (vi) Section 07, Delayed bids, is deleted in its entirety and replaced with the following:

07 Delayed bids

 - 1. It is the Bidder's responsibility to ensure that the Contracting Authority has received the entire submission. Misrouting or other electronic delivery issues resulting in late submission of bids will not be accepted.
- (vii) Section 08, Transmission by facsimile or by Canada Post Corporation's (CPC) Connect service, is deleted in its entirety.
- (viii) Section 20, Further information, subsection 2, is deleted in its entirety.

2.2 Submission of Bids

A. Bids must be submitted only to the Department of National Defence (DND) by the date, time, and place indicated on page 1 of the bid solicitation.

B. Due to the nature of the bid solicitation, bids transmitted by facsimile will not be accepted.

- C. Due to the nature of the bid solicitation, bids transmitted by Canada Post Corporation's (CPC) Connect service will not be accepted.

2.2.1 Electronic Submissions

- A. Individual e-mails that may include certain scripts, formats, embedded macros and/or links, or those that exceed 5 megabytes may be rejected by Canada's e-mail system and/or firewall(s) without notice to the Bidder or Contracting Authority. Larger bids may be submitted through more than one e-mail. Canada will confirm receipt of documents. It is the Bidder's responsibility to ensure that their entire submission has been received. Bidders should not assume that all documents have been received unless Canada confirms receipt of each document. In order to minimize the potential for technical issues, bidders are requested to allow sufficient time before the closing date and time to confirm receipt. Bid documents submitted after the closing time and date will not be accepted.

2.3 Enquiries - Bid Solicitation

- A. All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.
- B. Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders 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 the Bidder do so, so that the proprietary nature of the question(s) is eliminated and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

- A. Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.
- B. Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, 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 Bidders.

2.5 Improvement of Requirement During Solicitation Period

- A. Should bidders consider that the specifications or Requirement contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 10 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- A. Canada requests that Bidders provide their bid in separate sections as follows:
- Section I: Technical Bid: 1 soft copy in PDF format by e-mail;
- Section II: Financial Bid: 1 soft copy in PDF format by e-mail;
- Section III: Certifications: 1 soft copy in PDF format by e-mail; and
- Section IV: Additional Information: 1 soft copy in PDF format by e-mail.
- B. Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.
- C. Bidders must demonstrate their compliance with the attachment to Part 4 entitled Evaluation Criteria. of the bid solicitation by providing substantial information describing completely and in detail how the requirement is met or addressed. Bidders must provide with their technical bid, a document indicating clearly where the substantial information for each of the sections identified below can be found.

3.2 Section I: Technical Bid

- A. In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

3.2.1 Substitutes and Alternatives

- A. Bidders may propose substitutes and alternatives where equivalent is indicated in the Annex entitled Requirement.
- B. Substitutes and alternatives that are equivalent in form, fit, function, quality and performance as detailed in the Annex entitled Requirement, will be considered for acceptance where the Bidder:
- (i) Clearly identifies a substitute and/or an alternative;
 - (ii) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
 - (iii) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
 - (iv) Provides complete specifications and brochures, where applicable;
 - (v) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the Annex entitled Requirement; and
 - (vi) Clearly identifies those areas in the technical requirement description and in the brochures that support the substitute and/or the alternative compliance with the technical requirements.
- C. Substitutes and alternatives offered as equivalent in form, fit, function quality and performance will not be considered for acceptance by the Technical Authority if:
- (i) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the equivalency; or
 - (ii) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.

- D. Bidders are encouraged to offer or suggest green products whenever possible.

3.3 Section II: Financial Bid

- A. Bidders must submit their financial bid in accordance with the attachment to Part 4 entitled Pricing Schedule.

3.3.1 Electronic Payment of Invoices - Bid

- A. If you are willing to accept payment of invoices by Electronic Payment Instruments, complete the attachment to Part 3 entitled Electronic Payment Instruments, to identify which ones are accepted.
- B. If the attachment to Part 3 entitled Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.
- C. Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.3.2 Exchange Rate Fluctuation Risk Mitigation

- A. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form [PWGSC-TPSGC 450 \(http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2\)](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2), Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
- B. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
- C. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
- D. At time of bidding, the Bidder must complete columns (1) to (4) on form [PWGSC-TPSGC 450](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2), for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
- E. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

3.4 Section III: Certifications

- A. Bidders must submit the certifications and additional information required under Part 5.

3.5 Section IV: Additional Information

- A. In Section IV of their bid, bidders should provide:
- (i) A completed, signed, and dated Page 1 of this solicitation, or final amendment, as applicable;
 - (ii) The name of the person(s) and associated contact information (title, mailing address, phone number, and e-mail address) authorized by the Bidder to:
 - (a) Enter into communications with Canada with regards to their bid, and any contract that may result from their bid;
 - (b) Coordinate delivery and follow-up; and

- (c) Provide after sales service, maintenance, warranty repairs, and a full range of repair parts for the vehicle/equipment offered.

(iii) Any other information submitted in the bid not already detailed.

3.5.1 Delivery Date(s)

- A. Any delivery date(s) offered will not be included in the evaluation.

3.5.1.1 Firm Goods and/or Services

- A. Delivery of the Firm Goods and/or Services is requested on or before 450 days from date of contract. If a longer delivery period is required, the Bidder must submit the best delivery that could be offered, in the form of either a fixed date or a period of time from contract award. Failure to submit a date or time period will be taken as acceptance of delivery within the requested timeframe.

3.5.2 Warranty Period

3.5.2.1 Manufacturer's Standard Warranty Period

- A. Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the equipment and components that exceeds the minimum warranty period has indicated in Part 6, Section 6.3.1.A.(ii) . Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for component/subassemblies will form part of the proposed contract.

3.5.2.2 Extended Warranty Period

- A. Canada requests that the Bidder indicate if an extended warranty period is being offered that exceeds the Manufacturer's Standard Warranty Period.
- B. If the Bidder indicates that an extended warranty period is being offered, Canada requests that the Bidder provide details and pricing information of any extended warranty period available for the vehicle/equipment and any ancillary items.
- C. Any extended warranty period offered will not be included in the financial evaluation.

ATTACHMENT 1 TO PART 3 - ELECTRONIC PAYMENT INSTRUMENTS

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

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- A. Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- B. An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

- A. Mandatory technical evaluation criteria are included in the attachment to Part 4 entitled Evaluation Criteria.

4.1.2 Financial Evaluation

4.1.2.1 Firm Goods and/or Services

- A. The price of the bid will be evaluated in Canadian dollars, Delivered Duty Paid (DDP) destination, Incoterms 2010, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

4.2 Basis of Selection - Lowest Evaluated Price, Mandatory Technical Criteria

- A. A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest aggregate evaluated price will be recommended for award of a contract.

ATTACHMENT 1 TO PART 4 - EVALUATION CRITERIA

See attached document entitled:

“Technical Evaluation Matrix Wildland Firefighting Vehicle with Compressed Air Foam System (CAFS)”. Dated: 18-10-2022

ATTACHMENT 2 TO PART 4 - PRICING SCHEDULE

1. General

- A. Bidders must submit a Firm Unit Price for each Item.
- B. Bidders are requested to complete the following Pricing Schedule and include it in the bid.
- C. All prices and costs must be submitted in Canadian Dollars, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

2. Firm Goods and/or Services

2.1 Wildland Firefighting Vehicle with Compressed Air Foam System (CAFS)

- A. The Firm Unit Price(s) include(s) associated specifications, training, and deliverables as per Annex A, Requirement, Delivered Duty Paid (DDP) specified Delivery Point, Incoterms 2010:

Item	Delivery Point	Quantity Required (A)	Firm Unit Price (B)	Sub-Total (C = A x B)
001	CFB Petawawa Bldg H-110 Petawawa On K8H 2X3	3	\$	\$
002	Det Dundurn Bldg 155 Dundurn Sask S0K1K0	1	\$	\$
003	CFB Greenwood 14 Wing Greenwood Hanger 2 Major Equipment Section Greenwood, Nova Scotia B0P1N0	1	\$	\$
Total (D = sum C)				\$

PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

5.1 General

- A. Bidders must provide the required certifications and additional information to be awarded a contract.
- B. The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.
- C. The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1.2 Certifications - Contract

- A. Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

5.2 Certifications Required with the Bid

- A. Bidders must submit the following duly completed certifications as part of their bid.

5.2.1 Integrity Provisions - Declaration of Convicted Offences

- A. In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, if applicable, the Integrity 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.

5.3 Certifications Precedent to Contract Award and Additional Information

- A. The certifications and additional information listed below should be submitted with the bid but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder 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 specified will render the bid non-responsive.

5.3.1 Integrity Provisions - Required Documentation

- A. In accordance with the section titled "Information to be provided when bidding, contracting, or entering into a real procurement 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 Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.3.2 Federal Contractors Program for Employment Equity - Bid Certification

- A. By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

- B. Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

5.3.3 Product Conformance

- A. The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of Annex A, Requirement. This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

Signature of Bidder's Authorized Representative

Date

5.3.4 Contact information for Contractor's representative and After Sale Service

- A. The Bidder is requested to provide the information in Part 6 at 6.5.4 Contractor's Representative and at 6.5.5 After Sales Service.

5.3.5 ISO 9001:2015 Quality Management Systems (Quality Assurance Code Q)

- A. The Bidder certifies that it complies, and will continue to comply throughout the duration of the contract, with all of the requirements of the article in Part 6 entitled ISO 9001:2015 Quality Management Systems (Quality Assurance Code Q).

Signature of Bidder's Authorized Representative

Date

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

- A. There is no security requirement applicable to the Contract.

6.2 Requirement

- A. The Contractor must provide the item(s) detailed under the Requirement at Annex A and the Basis of Payment at Annex B.

6.2.1 Technical Changes, Substitutes, and Alternatives

- A. Any technical changes, substitutes and alternatives proposed by the Contractor must be evaluated for acceptance by the Technical Authority. Any substitutes and alternatives must be equivalent in form, fit, function, quality and performance to what is being replaced and must be at no additional cost to Canada. Substitutes and alternatives that are offered as equivalent will only be acceptable once they are approved by the Technical Authority as an equivalent. A contract amendment will be issued.
- B. Should the Technical Authority not accept the substitute or the alternative and the Contractor is unable to meet the technical requirement, Canada may terminate the contract for default in accordance with the general conditions stated in the contract.

6.3 Standard Clauses and Conditions

- A. All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions \(SACC\) 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.

6.3.1 General Conditions

- A. 2010A (2022-12-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract, with the following modification:
- (i) Article 01, Interpretation, definition of "Canada", "Crown", "His Majesty" or "the Government", is deleted in its entirety and replaced with the following:
- "Canada", "Crown", "His Majesty" or "the Government"
means His Majesty the King in right of Canada as represented by the Minister of National Defence and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of National Defence has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister.
- (ii) Article 09 entitled Warranty of General Conditions 2010A is amended as follows:
- At subsection 1, delete the following: "The warranty period will be twelve (12) months" and replace with the following:
- A minimum fifteen (15) years warranty against defects in both materials and workmanship of the tanks;
 - A minimum five (5) years for the Fire Fighting Vehicle Conversion;
 - A minimum five (5) years for the Fire package electrical system;
 - A minimum two (2) years for the sub components;
 - A minimum two (2) years for the paint; and
 - OEM standard warranty for the cab and chassis.

Delete subsection 2 in its entirety and replace it with the following:

2. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

6.3.2 Existing Technical Publications - Translation

- A. The Contractor grants to Canada a non-exclusive, perpetual, irrevocable and royalty-free license to translate and reproduce for government use all or any part of the technical publications supplied with the equipment delivered under the Contract. Copyright in the translation made by Canada or by independent contractors engaged by Canada will belong to Canada.

6.4 Term of Contract

6.4.1 Delivery Dates

- A. All the deliverables must be received on or before the date(s) specified in Annex B of the Contract.

6.4.2 Delivery Points

- A. Delivery of the requirement must be made to delivery point(s) specified at Annex B of the Contract.
- B. The Contractor must deliver the goods by appointment only. The Contractor is responsible for contacting the Technical Authority in advance of shipping to obtain the contact information for the delivery point(s). The Contractor or its carrier must arrange delivery appointments by contacting the delivery point(s). The consignee(s) may refuse shipments when prior arrangements have not been made. When the carrier is required to return due to its failure to make an appointment for delivery, Canada will not be liable to pay for additional costs.

6.5 Authorities

6.5.1 Contracting Authority

- A. The Contracting Authority for the Contract is:

Name: Brian James
Title: Matériel Acquisition and Support Officer
Position: DLP 5-3-4
Address: Department of National Defence Headquarters
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Telephone: 819-939-3299
E-mail: brian.james3@forces.gc.ca

- B. The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

A. The Technical Authority for the Contract is:

[Contact information to be detailed in the resulting contract]

Name: _____

Title: _____

Position: _____

Address: Department of National Defence Headquarters
101 Colonel By Drive
Ottawa, Ontario K1A 0K2

Telephone: _____

E-mail: _____

B. The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority; however, the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Quality Assurance Authority

A. The Quality Assurance Authority for the Contract is:

[Contact information to be detailed in the resulting contract]

Name: _____

Title: _____

Position: _____

Address: Department of National Defence Headquarters
101 Colonel By Drive
Ottawa, Ontario K1A 0K2

Telephone: _____

E-mail: _____

B. Director Quality Assurance (DQA) is the Quality Assurance Authority of the Department of National Defence. DQA is responsible to monitor the Contractor Quality Management System to provide assurance that the Contractor has the ability to fulfill the quality requirements in the Contract.

6.5.4 Contractor's Representative

[Contact information to be detailed in the resulting contract]

Name: _____

Title: _____

Address: _____

Telephone: _____

E-mail: _____

6.5.5 After Sales Service

- A. The following dealer(s) and/or agent(s) is(are) authorized to provide after sales service, maintenance, and warranty repairs; and a full range of repair parts for the vehicle/equipment offered:

[Contact information to be detailed in the resulting contract]

CFB Petawawa

Name: _____
Title: _____
Address: _____

Telephone: _____
E-mail: _____

DET Dundurn

Name: _____
Title: _____
Address: _____

Telephone: _____
E-mail: _____

CFB Greenwood

Name: _____
Title: _____
Address: _____

Telephone: _____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment

6.6.1.1 Firm Unit Price(s)

- A. In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as specified in Annex B for a cost of \$[amount to be detailed in the resulting contract]. Customs duties are included and Applicable Taxes are extra.

6.6.2 Limitation of Price

- A. 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.

6.6.3 Method of Payment

6.6.3.1 Multiple Payments

- A. Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if:
- (i) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;

- (ii) all such documents have been verified by Canada; and
- (iii) the Work delivered has been accepted by Canada.

6.6.4 Exchange Rate Fluctuation Adjustment

- A. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
- B. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
- C. The total price paid by Canada on each invoice will be adjusted at the time of payment. The exchange rate adjustment amount will be calculated in accordance with the following formula:

$$\text{Exchange rate adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$

where formula variables correspond to:

- (i) FCC = Foreign currency component (per unit);
- (ii) Qty = quantity of units;
- (iii) i_0 = Initial exchange rate (CAN\$ per unit of foreign currency [for example US\$1]).
The initial exchange rate is set as the Bank of Canada rate on the solicitation closing date. The Bank of Canada publishes its rates each business day by 16:30 Eastern Time; and
- (iv) i_1 = Exchange Rate for Adjustments (ERA) (CAN\$ per unit of foreign currency [for example US\$1]).
The Bank of Canada publishes its rates each business day by 16:30 Eastern Time:
 - (a) The ERA for goods will be the Bank of Canada rate on the date the goods were delivered;
 - (b) The ERA for services will be the Bank of Canada rate on the last business day of the month for which the services were performed; and
 - (c) The ERA for advance payments will be the Bank of Canada rate on the last business day prior to the payment. The last published business day rate will be used for non-business days.
- D. The Contractor must indicate the total exchange rate adjustment amounts (whether they are upward, downward or present no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form [PWGSC-TPSGC 450](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html#f2>), Claim for Exchange Rate Adjustments.
- E. The exchange rate adjustment will only impact the payment to be made by Canada where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form [PWGSC-TPSGC 450](#) (that is $[i_1 - i_0] / i_0$).
- F. Canada reserves the right to audit any revision to costs and prices under this clause.

6.6.5 Electronic Payment of Invoices

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

[List to be updated in the resulting contract]

- (i) Direct Deposit (Domestic and International);
- (ii) Electronic Data Interchange (EDI) (International only); and
- (iii) Wire Transfer (International Only).

6.7 Invoicing

6.7.1 Invoicing Instructions

A. 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.

B. Each invoice must contain or be supported by the applicable documents:

- (i) The serial number(s), or a copy of the New Vehicle Information Statement (NVIS) containing the Vehicle Identification Number(s) (VIN);
- (ii) A copy of proof(s) of training;
- (iii) A copy of the release document and any other documents as specified in the Contract;
- (iv) Original copies of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses;
- (v) A copy of the quarterly progress report;
- (vi) A description of the Work delivered; and
- (vii) A breakdown of the cost elements.

C. Invoices must be distributed as follows:

- (i) The invoice along with any required supporting documentation must be forwarded to the Contracting Authority for certification and payment at:

Email: [email to be detailed in the resulting contract]

- (ii) By submitting a .pdf copy, the Contractor certifies that the .pdf copy of each invoice will be considered as the original invoice. In addition, the Contractor must indicate the contract number and name of the Contracting Authority in its covering e-mail.

6.7.2 Holdback

A. A 10% holdback will apply on any due payment of the following:

- (i) Items 1 and 2 and 3 as per Annex B.

B. Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous invoice.

- C. Release of the 10% holdback is conditional upon receipt and acceptance of all Work under this Contract.
- D. Invoicing instructions for the holdback are as detailed in the clause entitled "Invoicing Instructions".

6.8 Certifications and Additional Information

6.8.1 Compliance

- A. Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

- A. The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario **or as specified by the bidder in its bid, if applicable.**

6.10 Priority of Documents

- A. 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:
 - (i) The Articles of Agreement;
 - (ii) The General Conditions **2010A** (2022-12-01), General Conditions - Goods (Medium Complexity);
 - (iii) Annex A, Requirement;
 - (iv) Annex B, Basis of Payment;
 - (v) the Contractor's bid dated **[date to be specified in the resulting contract]**, as clarified on **[date to be specified in the resulting contract, if required]**, and as amended on **[date to be specified in the resulting contract, if required]**.

6.11 Defence Contract

- A. The Contract is a defence contract within the meaning of the *Defence Production Act*, R.S.C. 1985, c. D-1 (<http://laws-lois.justice.gc.ca/eng/acts/d-1/>), and must be governed accordingly.
- B. Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the *Defence Production Act*.

One of the following options will be inserted in the resulting contract, as applicable:

Option 1: When the contract is to be with a Canadian-based supplier; or

6.12 Foreign Nationals (Canadian Contractor)

- A. The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

Option 2: When the contract is to be with a foreign-based supplier.

6.12 Foreign Nationals (Foreign Contractor)

- A. The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

6.13 Insurance - No Specific Requirement

- A. The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

6.14 Inspection and Acceptance

- A. The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Requirement and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.15 Post-Contract Award Meeting

- A. Within 10 days of the date of Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Contracting Authority to review technical and contractual requirements. The Contractor must prepare and distribute the minutes of the meeting within 5 calendar days after the completion of the meeting. The meeting will be held at the Contractor's facility or via teleconference at Canada's discretion at no additional cost to Canada, with representatives of the Contractor and the Department of National Defence.

6.16 ISO 9001:2015 Quality Management Systems - Requirements (Quality Assurance Code Q)

- A. In the performance of the Work described in the Contract, the Contractor must comply with the requirements of *ISO 9001:2015 - Quality management systems* - Requirements, published by the International Organization for Standardization (ISO), current edition at date of submission of Contractor's bid.
- B. It is not intended that the Contractor be registered to ISO 9001; however, the Contractor's quality management system must address all requirements appropriate to the scope of the Work. Only exclusions in accordance with clause 1.2 of ISO 9001 are acceptable.

6.16.1 Assistance for Government Quality Assurance (GQA)

- A. The Contractor must provide the Quality Assurance Representative (QAR) with the accommodation and facilities required for the proper accomplishment of GQA and must provide any assistance required by the QAR for evaluation, verification, validation, documentation or release of product.
- B. The QAR must have the right of access to any area of the Contractor's or subcontractor's facilities where any part of the Work is being performed. The QAR must be afforded unrestricted opportunity to evaluate and verify Contractor conformity with quality system procedures and to validate product conformity with the requirements of the Contract. The Contractor must make available for reasonable use by the QAR the equipment necessary for

all validation purposes. Contractor personnel must be made available for operation of such equipment as required.

- C. When the QAR determines that GQA is required at a subcontractor's facilities, the Contractor must provide for this in the purchasing document and forward copies to the QAR, together with relevant technical data as the QAR may request.
- D. The Contractor must notify the QAR of non-conforming product received from a subcontractor when the product has been subject to GQA.
- E. For the design, development or maintenance of software, the Contractor must interpret the requirements of *ISO 9001:2015 "Quality management systems - Requirements"*, according to the guidelines of the latest issue (at contract date) of *ISO/IEC 90003:2014 "Software engineering - Guidelines for the application of ISO 9001:2008 to computer software"*.

One of the following options will be inserted in the resulting contract, as applicable:

Option 1: When the contract is to be with a Canadian-based supplier; or

6.17 Quality assurance authority (Department of National Defence): Canadian-based contractor

- A. All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or it's designated Quality Assurance Representative (QAR):

Director of Quality Assurance (DQA)
National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
E-mail: ContractAdmin.DQA@forces.gc.ca

- B. Within 48 hours of contract award, the Contractor must contact the QAR. The name, location and phone number of the QAR can be obtained from the nearest National Defence Quality Assurance Region (NDQAR) listed below:

Atlantic - Halifax: 902-427-7224 or 902-427-7150
Quebec - Montreal: 514-732-4401 or 514-732-4477
Quebec - Quebec City: 418-694-5996
National Capital Region - Ottawa: 819-939-8605 or 819-939-8608
Ontario - Toronto: 416-635-4404, ext. 6081 or 2754
Ontario - London: 519-964-5757
Manitoba/Saskatchewan - Winnipeg: 204-833-2500, ext. 6574
Alberta - Calgary: 403-410-2320, ext. 3830
Alberta - Edmonton: 780-973-4011, ext. 2276
British Columbia - Vancouver: 604-225-2520, ext. 2460
British Columbia - Victoria: 250-363-5662

- C. The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the material or services provided conform to the requirements of the Contract.
- D. The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.
- E. Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for three years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

Option 2: When the contract is to be with a foreign-based supplier.

6.17 Quality Assurance Authority (Department of National Defence): Foreign-based and United States Contractor

- A. All work is subject to Government Quality Assurance performed at the Contractor's or subcontractor's facility, and at the installation site, by the Director of Quality Assurance, or it's designated Quality Assurance Representative (QAR).

Director of Quality Assurance
National Defence Headquarters
Major-General George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
E-mail: ContractAdmin.DQA@forces.gc.ca

- B. If the Contractor has not been contacted by the QAR performing GQA in the Contractor's facility or area within 45 working days of award of the Contract, the Contractor must notify the Contracting Authority.
- C. Where no official arrangements for mutual GQA have been concluded, the Department of National Defence will arrange for the GQA services to be conducted by a National Quality Assurance Authority acceptable to the Director of Quality Assurance. If the GQA services must be provided on a cost-recovery basis, the costs for the services must be accrued against the Contract and be discharged through separate invoicing.
- D. The Contractor is responsible for performing, or having performed, all inspections and tests necessary to substantiate that the materiel or services provided conform to the requirements of the Contract.
- E. The Contractor must provide, at no additional cost, all applicable test data, all technical data, test pieces and samples as may reasonably be required by the QAR to verify conformity to the requirements of the Contract. The Contractor must forward at its expense such technical data, test data, test pieces and samples to such location as the QAR may direct.
- F. Quality control, inspection and test records that substantiate conformity to the specified requirements, including records of corrective actions, must be retained by the Contractor for 3 years from the date of completion or termination of the Contract and must be made available to the QAR upon request.

6.18 Quality Assurance Document

- A. The Contractor must ensure that a packing note and copies of the quality assurance document accompany each shipment. They must be enclosed in a waterproof envelope fastened to the last package of the shipment or inside the last package, which is to be marked to indicate the enclosures. In the case of a carload shipment, they must be fastened to the inside door frame of the railway car.

One of the following options will be inserted in the resulting contract, as applicable:

Option 1: When the contract is to be with a Canadian-based supplier; or

6.19 Release documents (Department of National Defence): Canadian-based contractor

- A. Unless otherwise directed by the Department of National Defence (DND) Quality Assurance Authority, the signature of the DND Quality Assurance Representative on the release document is not required.
- B. Material must be released for shipment using either DND form CF 1280, Certificate of Release, Inspection and Acceptance, or a release document containing the same information. The Contractor must prepare the release document(s).
- C. For return of repair and overhaul material to the Defence Supply Chain, use forms DND 2227/DND 2228 in lieu of DND form CF 1280.

Option 2: When the contract is to be with a United States-based supplier; or

6.19 Release Documents (Department of National Defence): United States-based Contractor

- A. Material must be released for shipment using a DD Form 250, Material Inspection and Receiving Report, or a release document containing the same information and acceptable to the Quality Assurance Representative. The Contractor must prepare the release document(s).

Option 3: When the contract is to be with a foreign-based supplier.

6.19 Release Documents (Department of National Defence): Foreign-based Contractor

- A. Material must be released for shipment using a Certificate of Conformity in accordance with NATO STANAG 4107 which must be prepared by the Contractor.

6.20 Release Documents - Distribution

- A. The Contractor must prepare the release documents in a current electronic format and distribute them as follows:

- (i) 1 copy mailed to consignee marked: "Attention: Receipts Officer";
- (ii) 2 copies with shipment (in a waterproof envelope) to the consignee;
- (iii) 1 copy to the Contracting Authority;
- (iv) 1 copy to:

National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Attention: **Contact information to be detailed in the resulting contract**

- (v) 1 copy to the Quality Assurance Representative;
- (vi) 1 copy to the Contractor; and
- (vii) For all non-Canadian contractors, 1 copy to:

DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2

E-mail: ContractAdmin.DQA@forces.gc.ca

6.21 Material

- A. Material supplied must be new unused and of current production by manufacturer.

6.22 Interchangeability

- A. Unless changes during the production run are authorized by the Contracting Authority, all vehicles/equipment supplied against any one item of a contract must be the same make and model, and all like assemblies, sub-assemblies and parts must be interchangeable.

6.23 Vehicle Safety

- A. Each vehicle supplied pursuant to the Contract must meet the applicable provisions of the [Motor Vehicle Safety Act](http://laws-lois.justice.gc.ca/eng/acts/M-10.01/page-1.html), S.C. 1993, c. 16 (<http://laws-lois.justice.gc.ca/eng/acts/M-10.01/page-1.html>), and the applicable regulations that are in force on the date of its manufacture.

6.24 Recall Notices

- A. All recall notices must be forwarded to the Technical Authority identified in this Contract.

6.25 Packaging

- A. The methods used for preservation and packaging must be in conformity with the Contractor's normal standard for domestic shipment or, if necessary, with standards for overseas shipment as below deck cargo.

6.26 Wood packaging materials

- A. All wood packaging materials used in shipping must conform to the [International Standards for Phytosanitary Measures No. 15: Regulation of Wood Packaging Material in International Trade \(ISPM 15\)](https://www.ippc.int/en/core-activities/standards-setting/ispms/) (<https://www.ippc.int/en/core-activities/standards-setting/ispms/>).
- B. Pertinent additional information on Canada's import and export programs is provided in the following Canadian Food Inspection Agency policy directives:
- (i) D-98-08 - [Entry Requirements for Wood Packaging Materials Produced in All Areas Other Than the Continental United States](http://www.inspection.gc.ca/plants/plant-protection/directives/forestry/d-98-08/eng/1323963831423/1323964135993) (<http://www.inspection.gc.ca/plants/plant-protection/directives/forestry/d-98-08/eng/1323963831423/1323964135993>); and
 - (ii) D-13-01 - [Canadian Heat Treated Wood Products Certification Program \(HT Program\)](http://www.inspection.gc.ca/plants/forestry/exports/ht-program/eng/1319462565070/1319462677967) (<http://www.inspection.gc.ca/plants/forestry/exports/ht-program/eng/1319462565070/1319462677967>).

6.27 Preparation for Delivery

- A. The equipment must be serviced, adjusted and delivered in condition for immediate use. The equipment must be cleaned before leaving the factory and being released to Inspection Authority or consignee personnel at the final delivery point.

6.28 Delivery of Dangerous Goods/Hazardous Products

- A. The Contractor must mark dangerous goods/hazardous products which are classed as dangerous/hazardous as follows:
- (i) shipping container - in accordance with the [Transportation of Dangerous Goods Act](http://laws-lois.justice.gc.ca/eng/acts/T-19.01/), 1992, c. 34 (<http://laws-lois.justice.gc.ca/eng/acts/T-19.01/>); and
 - (ii) immediate product container - in accordance with the [Hazardous Products Act](http://laws-lois.justice.gc.ca/eng/acts/H-3/), R.S., 1985, c. H-3 (<http://laws-lois.justice.gc.ca/eng/acts/H-3/>).
- B. The Contractor must provide bilingual Safety Data Sheets, indicating the NATO Stock Number as follows:
- (i) 2 hard copies:
 - (a) 1 copy to be enclosed with the shipment, and

- (b) 1 copy to be mailed to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2
Attention: DSCO 5-4-2

- (ii) 1 copy sent in any electronic format to the following address: MSDS-FS@FORCES.GC.CA.

- C. The Contractor will be responsible for any damages caused by improper packaging, labelling or carriage of dangerous goods/hazardous products.
- D. The Contractor must ensure they adhere to all levels of regulations regarding dangerous goods/hazardous products as set forth by federal, provincial, and municipal laws and by-laws.
- E. The Contractor must contact the consignee (i.e. Supply Depot Traffic Section) at least 48 hours before shipping dangerous goods/hazardous products in order to schedule a receiving time.

6.29 Tools and Loose Equipment

- A. For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF1280) or on an attached packing note.

6.30 Delivery and Unloading

- A. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.
- B. When making deliveries, sufficient personnel must be provided to permit unloading of any type of vehicle without the assistance of federal government personnel.
- C. At some sites, the delivery truck must be unloaded while parked at the curb. When material is placed on the sidewalk, it must be placed in proximity to the designated entrance so as to be readily accessible to transport by mechanical handling equipment utilized by site personnel.

6.31 Incomplete Assemblies

- A. The Contractor must not ship incomplete assemblies unless the authorization for such shipment has been obtained from the Contracting Authority.

6.32 Work Site Access

- A. Authorized representatives of Canada must have access to any site where any part of the Work is being carried out at any time during working hours to make examinations and such tests of the Work as they may think fit.

6.33 Canadian Forces Site Regulations

- A. The Contractor must comply with all standing orders or other regulations, instructions, and directives in force on the site where the Work is performed.

6.34 Marking

- A. The Contractor must ensure that the manufacturer's name and part number are clearly stamped or etched on each item for positive identification purposes.

6.35 Labelling

- A. The Contractor must ensure that the manufacturer's and specification numbers appear on each item, either printed on the container or on an adhesive label of highest commercial standard affixed to the container.

6.36 Progress Reports

- A. The Contractor must submit quarterly reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.

Each progress report must address the following questions:

- (a) Is the delivery on schedule?
- (b) Is the Contract free of any areas of concern in which the assistance or guidance of Canada may be required?
- (c) Each negative response must be supported with an explanation.

6.37 Dispute Resolution Services

- A. The parties understand that the Procurement Ombudsman appointed pursuant to subsection 22.1 (1) of the Department of Public Works and Government Services Act will, on request of a party, provide a proposal for an alternative dispute resolution process to resolve any dispute arising between the parties respecting the interpretation or application of a term or condition of this contract. The parties may consent to participate in the proposed alternative dispute resolution process and to bear the cost of such process. The Office of the Procurement Ombudsman may be contacted by telephone at 1-866-734-5169 or by e-mail at boa.opo@boa.opo.gc.ca.

ANNEX A - REQUIREMENT

See attached document(s) entitled:

“PURCHASE DESCRIPTION FOR WILDLAND FIREFIGHTING VEHICLE WITH COMPRESSED AIR FOAM SYSTEM (CAFS)”. Dated: 2023-01-20

ANNEX B - BASIS OF PAYMENT

1. General

- A. All prices and costs are in Canadian Dollars, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

2. Firm Goods and/or Services

2.1 Wildland Firefighting Vehicle with compressed air foam system

- A. The Firm Unit Price(s) include(s) associated specifications, training, and deliverables as per Annex A, Requirement, Delivered Duty Paid (DDP) specified Delivery Point, Incoterms 2010:

Item	Delivery Point	Delivery Date	Quantity Required	Make/Model	Firm Unit Price
001	CFB Petawawa Bldg H-110 Petawawa On K8H 2X3	[Date to be detailed in the resulting contract]	3	To be added in the resulting contract	[\$[Cost to be detailed in the resulting contract]
002	Det Dundurn Bldg 155 Dundurn Sask S0K1K0	[Date to be detailed in the resulting contract]	1	To be added in the resulting contract	[\$[Cost to be detailed in the resulting contract]
003	CFB Greenwood 14 Wing Greenwood Hanger 2 Major Equipment Section Greenwood, Nova Scotia B0P1N0	[Date to be detailed in the resulting contract]	1	To be added in the resulting contract	[\$[Cost to be detailed in the resulting contract]

3. Extended Warranty Period

- A. If the warranty period is extended for an additional period of [To be added in the resulting contract] months/calendar days, the Contractor will be paid a firm unit price of [\$[Cost to be detailed in the resulting contract]] per vehicle/equipment, applicable taxes are extra.

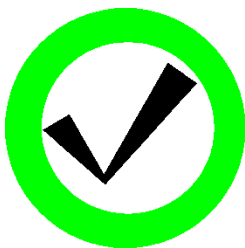


PURCHASE DESCRIPTION FOR

WILDLAND FIREFIGHTING VEHICLE WITH COMPRESSED AIR FOAM SYSTEM (CAFS)

ECC 189208

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 describes the requirements for a Wildland Firefighting Vehicle, including a truck mounted modular type Compressed Air Foam System (CAFS), auxiliary water tank, and hose reels.

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 or 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.
- g) Nominal dimensions reflect a method by which materials or products are generally identified, but which differ from the actual measured dimensions.

1.3 Definitions

- a) “**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.
- b) “**Vehicle**” – The entire vehicle including all systems and sub-systems, in a complete manufactured state in accordance with the requirements in this Purchase Description.
- c) “**Road Legal**” – Applies to a self-propelled vehicle designed for or capable of transporting persons, property, material or permanently or temporarily affixed apparatus on a highway.
- d) “**Gross Axle Weight Rating (GAWR)**” - The value specified by the vehicle manufacturer as the load-carrying capacity of a single axle system, as measured at the tire-ground interfaces.
- e) “**Gross Vehicle Weight Rating (GVWR)**” - The value specified by the vehicle manufacturer as the loaded weight of a single vehicle.

2. APPLICABLE DOCUMENTS

2.1 Applicable Documents

- a) The following documents form part of this Purchase Description. Canada will not be supplying these documents. Sources are as shown:

Motor Vehicle Safety Regulations (MVSR)

ULC-S515- 13 - Automobile Fire Fighting Vehicle Apparatus

NFPA 1901 – Standard for Automotive Fire Vehicle Apparatus (latest revision)

NFPA 1906 – Standard for Wildland Fire Apparatus (latest revision)

NFPA 1500 – Standard on Fire Department Occupational Safety, Health, and Wellness Program (latest revision)

Safety Code 6 - Health Canada's Radiofrequency Exposure Guidelines

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.
- 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.
- f) **Couplings** – Unless otherwise specified, all inlets, discharges, and hoses **must** be provided with Storz couplings, complete with cap and chain where applicable.
- g) **CAFS Compatibility** – All firefighting system plumbing **must** be designed to flow CAF fire suppression agent.

3.1.1 **Maintainability**

- a) The vehicle **must** be designed to permit access to all items required for servicing and maintenance.

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 0 to 40° C (32 to 104° F).

3.2.2 **Terrain**

- a) The vehicle **must** operate off-road in terrain conditions that include year-round snow, mud and sand.

3.2.3 **Visibility**

- a) The vehicle **must** operate in day, night, and during periods of artificial obscuration in fire suppression operations.

3.3 **Safety Standards**

3.3.1 **Vehicle Safety Regulations**

- a) The vehicle **must** comply with the Motor Vehicle Safety Regulations (MVSr).
- b) The completed vehicle **must** have Safety Compliance Certification Label with a National Safety Mark (NSM), as a seal of compliance **or** be accompanied by a Vehicle Import Form containing proof of Inspection by the Registrar of Imported Vehicles.
- c) The vehicle **must** comply with the applicable sections of ULC-S515, NFPA 1901, and NFPA 1906, as specified and applicable to this type of vehicle construction.

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.
- b) All access steps and ladders **must not** rely on removable pins for securing during use or transportation.

3.4 **Vehicle Performance, Ratings and Dimensions**

3.4.1 **Performance**

- a) As a minimum, the vehicle **must** meet the fully loaded vehicle performance parameters identified in NFPA 1901 and ULC S515-13, applicable to the vehicle size.

- b) The vehicle, at GVWR, **must** not exceed a speed of 90 km/h (55 MPH) on a level paved road.

3.4.2 **Weight Ratings**

- a) The actual gross vehicle weight of a fully staffed, loaded, and equipped vehicle for service **must** not exceed the manufacturers tested weight rating as recorded on the vehicle information data plate, in accordance ULC S515-13.
- b) IAW Table 12.1.2 of NFPA 1901 unless specified in this purchase description, Canada will reuse the miscellaneous equipment from the unit being replaced while respecting maximum equipment allowance referred on the GVWR tag.

3.4.3 **Dimensions**

- a) The vehicle **must** have road legal dimensions across Canada.
- b) The maximum overall height of the vehicle **must** be a maximum of 3.75 metres (12.5 feet).
- c) The maximum overall length of the vehicle **must** be a maximum of 9.14 metres (30 feet).

3.5 **Diesel Engine**

- a) The engine **must** operate on ultra-low sulphur diesel fuel to the CAN/CGSB Standard 3.517.

3.5.1 **Engine Components**

- a) A combustion air cleaning system **must** be provided, with an air cleaner restriction indicator visible to the operator.
- b) An engine shutdown or de-rate system **must** be provided, including a visual warning indicator visible from the operator position.
- c) A recovery tank for radiator coolant overflow **must** be provided.

3.5.2 **Cold Weather Starting Aids**

- a) Cold weather starting aids **must** be provided.
- b) A 110-volt engine block heater(s) **must** be provided.

3.5.3 **Exhaust System**

- a) The vehicle **must** be equipped with a vertical exhaust system shielded to prevent personnel contacting a heated surface.
- b) The vehicle **must** be equipped with an exhaust system compliant to NFPA 1901 and shielded to prevent personnel contacting a heated surface.

3.5.3.1. **Vehicle Mounted Diesel Exhaust Filter System**

- a) A vehicle mounted, direct source capture, exhaust filter system **must** be provided with the apparatus that prevents exposure to, and contamination from, exhaust emissions in addition to the manufacturers after treatment device (ATD) in accordance with NFPA 1500.
- b) The system **must** be installed after the engine manufacturers ATD and before the diffuser tip in the end tailpipe.
- c) The filter system **must** work automatically whenever the Apparatus exits or returns to the Fire Hall.
- d) The filter system **must** have the capability to be used while on-scene, outside the Fire Hall.
- e) The diesel exhaust removal system **must** travel with the Apparatus.
- f) The system **must** not require building modifications or hanging hoses for the system to operate.
- g) The installation of the system **must** be performed by the exhaust removal system manufacturer.
- h) The vehicle mounted exhaust filter system **must** meet all NFPA, NIOSH and OSHA standards for preventing exposure to carcinogenic compounds that exist in diesel exhaust.
- i) The Ward diesel filter No Smoke 2 system or an equivalent must be provided.

3.5.4 **Fuel Tank(s)**

- a) The fuel tank(s) provided **must** comply with ULC-S515 Chapter 11.
- b) The fuel tank(s) must have a fuel capacity that will provide the greater of at least 500 km of fully laden cruise or ten continuous of pumping operations.

3.6 **Drivetrain**

- a) The vehicle's drive train **must** include 4x2 (rear wheel drive), 4x4 HI and 4x4 LO.
- b) The drivetrain **must** include limited slip or driver controlled locking differential(s) on the drive axle(s).
- c) The wheel base dimension **must** be maximised when designing such unit travelling off road in order to balance the front and rear axle weight, side to side once fully loaded.

3.7 **Transmission**

- a) The vehicle **must** be equipped with an automatic transmission.
- b) The transmission **must** have an oil cooler.
- c) The transmission shift control **must** clearly indicate the position of the shift column under all lighting conditions.

- d) An audible back-up alarm in compliance with ULC-S515 Chapter 12.11 **must** be installed.

3.8 Braking System

- a) The vehicle **must** be equipped with an air braking system, including a parking brake.
- b) The braking system **must** include an anti-lock (ABS) brake system.
- c) The braking system **must** include an automatic air dryer.
- d) The braking system **must** include air couplers (glad hands), service and emergency, in a protected location at the front and rear of the vehicle.
- e) The braking system **must** include automatic slack adjusters on all wheels;
- f) The braking system **must** include heated automatic moisture expelling valve on all air tanks and air dryer.
- g) The braking system **must** be equipped with an auto-eject air connection for charging the air system located on the driver's side door.

3.9 Suspension System

- a) The vehicle **must** sit level front to back, side to side when fully loaded.
- b) Leaf suspensions and shock absorbers must be provided.

3.10 Steering

- a) The steering system **must** be provided with a telescopic and tilting steering column.

3.11 Wheels, Rims and Tires

- a) The vehicle **must** be equipped with Michelin XZL 395/85R20 or approved equivalent, steel-belted, tubeless radial tires.
- b) The tires **must** be mounted on balanced two piece hub pilot disc wheels.
- c) Beadlocks **must** be provided on all wheels.

3.12 Cab

- a) The vehicle **must** be equipped with a minimum two person's conventional weatherproof cab and comply with ULC-S515 Chapter 13.
- b) The cab **must** be equipped with a self-levelling cab suspension.
- c) All seating **must** be upholstered with a material that reduces the absorption of toxins, promotes ease of cleaning, repels water, and is wear resistant, applicable to firefighting applications.

- d) Driver and passenger seats **must** be equipped with independent manual adjustment and air ride suspension systems.
- e) A minimum of two (2) doors **must** be provided with locks, be keyed alike.
- f) OEM standard Instruments cluster **must** be provided.
- g) A ventilation, heater and defrosting system **must** be provided, with a multi-speed fan.
- h) An air conditioning system **must** be provided, equipped with all components and controls required for regulation of the cab interior temperature.
- i) A powered windshield washer system **must** be provided.
- j) The cab floor or floor mats **must** be weatherproof.
- k) Two rotating interior sun visors **must** be installed.
- l) An AM/FM radio with an auxiliary port **must** be provided.
- m) Two heavy-duty, powered, and heated exterior side mirrors, with convex section, **must** be provided with in-cab controls.
- n) Two USB plugs **must** be provided in the cab within range of the driver and officer's seat.
- o) Audible Warning Devices including Air horn(s), **must** be provided in compliance with ULC-S515 Chapter 12.
- p) Mobile radio power leads and antenna cable **must** be wired into the vehicle, with a service loop terminating in the cab for future installation of radio equipment.
- q) An antenna base (3/4 inch Motorola NMO or an **equivalent**) **must** be mounted high on the cab exterior.
- r) A volume of 200 mm x 200 mm x 330mm **must** be allocated in the vehicle cab for future installation of communication repeater. Communication repeater will be supplied by DND.

3.13 Controls and Instruments

- a) Each control and instrument **must** be permanently marked to identify the function, in both English and French.
- b) Vehicle controls and instruments **must** be grouped together in the cab and not restrict the operator's field of view.
- c) Control Panel lights **must** be provided for night-time operations.
- d) A fast idle feature **must** be provided.

3.14 Accessories

- a) License plate mounting provisions **must** be provided at the front and rear of the vehicle.
- b) Rear licence plate holder with LED light **must** be provided.
- c) Mud flaps **must** be provided behind the front and rear tires.
- d) Accessible front tow hooks and rear frame mounted towing eyes **must** be provided, with strength to permit a direct pull.

3.14.1 Equipment to be delivered with the Vehicle

- a) Two LED flashlights Pelican model 3765 or approved equivalent **must** be provided with charging docks wired into the vehicles electrical system.
- b) A first aid kit **must** be provided in the cab.
- c) Three dual faced triangular warning signs with foldaway base, complete with storage case, as per DOT FMVSS 125 **must** be provided.
- d) One 2.5 lbs ABC vehicle type fire extinguisher, mounted in the cab **must** be provided.
- e) Appropriate wheel chocks **must** be provided with storage mounted on driver's side.
- f) Two (2) 5 kg towing straps with metal hook ends **must** be provided.
- g) The vehicle **must** be provided with one self-supporting Wildfire Forestry FireFlex, 5,680 Litre (1500 US gallon) portable pond, or equivalent secured on top of the body.
- h) Two nominal 3.05 m (10 feet) sections of 76 mm (3 inch) diameter hard suction hose **must** be provided with holder secured on top of the body.
- i) One (1) 3.05 m (10 feet) folding ladder with holding mechanism in an easily accessible location **must** be provided to access roof components.
- j) One hard suction hose strainer with compartment holder **must** be provided.

3.15 Walkway

- a) The vehicle **must** be equipped with a walkway positioned directly behind the cab.
- b) The walkway **must** house the external pump control panel.
- c) Access from the vehicle cab doors to the walkway **must** be designed as a single level access platform
- d) Ground access to the walkway **must** rely on fixed steps with a maximum first step to ground distance of 610 mm (24 inch).

- e) Vertical surfaces at the transverse walkway accessible by the operator **must** be protected with a spray on protective coating to protect against abrasion, impact and corrosion.
- f) The outer sides of the walkway **must** be equipped with padded, rip-stop vinyl covered, man saver bars or equivalent, to prevent accidental falls.

3.16 Electrical System

- a) The vehicle **must** be equipped with a 12-volt electrical system
- b) All exposed wiring **must** be run in loom with a minimum 142 degrees Celsius (289 degrees Fahrenheit) rating.

3.16.1 Batteries

- a) The vehicle **must** be supplied with heavy-duty, maintenance free batteries, compliant with ULC-S515 Chapter 12.
- b) Batteries **must** be mounted in an accessible, protected and ventilated location.

3.16.2 Battery charger

- a) A 110V Kussmaul super auto-eject 20 amp receptacle or approved equivalent with a hinged weatherproof cover **must** be provided at the left side of the vehicle under driver's door, to provide power to the battery charger, the air compressor and the flashlight charger.

3.17 Lighting

- a) The vehicle **must** be equipped with LED lights wherever possible.
- b) Ground lighting **must** be in accordance with ULC-S515 Chapter 12.
- c) Two (2) cab roof mounted rotating spot lights **must** be provided with in cab controls
- d) Two (2) scene lights **must** be provided, one on each side mounted strategically located to maximise lighting for night operations.
- e) Scene lights **must** be rated for a minimum of 20,000 lumens.
- f) One (1) amber beacon light **must** be provided to automatically come on when the ignition is turned on with an override switch in cab. Location will be determined during Pre-Build Meeting based on vehicle design.

3.18 Exterior Vehicle Lighting – Emergency Response

- a) Exterior emergency warning lights complying with NFPA 1901 and ULC-S515 **must** be provided.
- b) A headlight wigwag system **must** be provided.
- c) A minimum of one (1) red beacon light connected to emergency lighting control **must** be provided. Location will be determined during Pre-Build Meeting based on vehicle design.

- d) One roof mounted light bar for Wildland application **must** be provided, with a minimum width of 1.32 metres (52 inch).
- e) A multi-position control for the emergency lighting system **must** be provided.

3.19 Siren and Speaker

- a) An electronic siren amplifier with Public Address **must** be provided.
- b) One speaker **must** be mounted at the front of the vehicle.

3.20 Rear View Camera System

- a) The vehicle **must** be equipped with a rear view camera.
- b) The system **must** include a nominal 177.8 cm (7 inch) screen, mounted within clear view of the driver.
- c) The rear camera **must** activate when the transmission is in reverse.

3.21 Water Tank

- a) The vehicle **must** be equipped with a water tank compliant with the requirements of NFPA 1906 Section 7.4.
- b) The water tank **must** have a minimum certified capacity of 4542 litres (1,200 US gallons).
- c) The water tank **must** be constructed from a corrosion resistant material and be designed to resist cracking and fatigue due to movement in off road conditions.
- d) Material **must** be of sufficient thickness to provide complete structural integrity of the tank for the expected life of the vehicle, for the required use.
- e) The opening **must** be equipped with a cover, marked with a label that reads “water fill/vent”.
- f) The opening **must** be readily accessible, covered and designed to prevent spillage.
- g) A debris screen **must** be installed at the opening, and be removable for cleaning.

3.21.1 Water Tank Mounting

- a) The water tank **must** be mounted to a steel sub frame structure.

3.21.2 Water Tank to Pump Valve

- a) The water tank **must** be connected to the intake side of the pump with an electric valve, controlled at the pump operator’s panel and inside the cab.
- b) The valve **must** be equipped with accessible manual override.

3.21.3 **Water Tank Drain Valve**

- a) The water tank drain valve **must** be a minimum 38 mm (1½ inch) and directed to the ground.
- b) The water tank drain valve **must** be easily accessible and drain all water from the tank.

3.21.4 **Manual Tank Fill and Auxiliary Intake**

- a) The vehicle **must** be provided with a tank-to-pump fill line, and auxiliary intake, on the curb side and rear.
- b) A manual full flow valve **must** be provided.
- c) The valve **must** be a self-locking swing out design.
- d) Plumbing **must** be sized adequately to permit the full rated performance of the pump.
- e) The auxiliary intake **must** have a 65mm (2½ in) coupling.

3.22 **Foam Tank**

- a) The vehicle **must** be equipped with a 115 litre (30 US gallon) Class A foam tank.
- b) The foam tank **must** be equipped with an accessible fill tower, covered to prevent foam solution spill caused by agitation or sloshing in expected operating conditions.
- c) The foam tank outlet **must** be sized to permit the required flow and permit use of the full tank capacity while on level ground, and a minimum 75% capacity while on a 20% side slope or ascending/descending a 30% grade.
- d) The foam tank **must** be adequately vented to permit rapid and complete filling without the build-up of excessive pressure, and to permit emptying the tank at maximum design flow without danger of collapse.
- e) A means of flushing or draining the system **must** be provided.

3.22.1 **Foam Tank Fill System**

- a) An electrically operated foam transfer pump **must** be provided and plumbed to allow the foam tank to be filled or drained, through a nominal 38 mm (1½ inch) hose connection, on the curb side of the vehicle.
- b) A fill hose with cam lock adapters **must** be provided to the transfer pump, and adequate length for the suction end to easily reach ground level when connected.
- c) Transfer pump controls **must** be installed near the pump connection.
- d) The pump **must** automatically shut off when the foam tank has been filled to a pre-set full level.
- e) A valve **must** be provided to prevent backflow of the concentrate during the connection and disconnection of the fill hose.

- f) The foam fill system **must** minimize foaming of the concentrate during manual fill operations, by introducing concentrate to the bottom of the tank.

3.22.2 **Foam System**

- a) The foam operating system **must** be protected from the elements.
- b) The foam line from the tank to the pump **must** be equipped with a removable strainer.
- c) A mean of flushing, and draining the system **must** be provided.
- d) IAW NFPA 1911, a mean of testing the foam system **must** be provided.

3.23 **Compressed Air Foam System (CAFS)**

- a) A self-contained, slide in type CAFS **must** be provided.
- b) The CAFS **must** discharge water only, water/foam only, air only, and compressed air foam.
- c) The consistency of the compressed air foam **must** be fully adjustable.
- d) The CAFS **must** incorporate, an air cooled compressor.
- e) The CAFS **must** incorporate a water pump.
- f) The CAFS **must** incorporate operator control panels with associated gauges, switches and controls.
- g) The CAFS **must** be provided with water discharges or outlets as applicable for operation and control of the system.

3.23.1 **CAFS Engine**

- a) The CAFS **must** be provided with a diesel engine, with sufficient power to meet the specified performance requirements.
- b) The engine **must** draw fuel directly from the vehicle fuel tank.
- c) The engine **must** not completely drain all fuel from the vehicle fuel tank.
- d) The engine **must** be equipped with an hour meter.
- e) The engine mounting method **must** absorb vibration from the expected operating conditions.
- f) The engine (if required) **must** be provided with an oil pan drain extension or other suitable means to drain engine oil.
- g) The engine filters **must** be easily accessible for servicing.

3.23.2 **CAFS Water Pump**

- a) The CAFS **must** be equipped with an integral single-stage centrifugal design pump.
- b) The pump **must** be provided with a vertically split aluminium case, replaceable bronze impeller, and seal rings.
- c) The pump **must** provide a minimum of 570 l/min (150 GPM) at a pressure of 1375 kPa (200psi).
- d) An oil free priming system **must** be provided, with controls at the operator's panel.
- e) The priming system **must** prime the pump through 6 meters (20 feet) of 76mm (3 inch) hard suction hose, with a minimum 4.88 metre (16 foot) lift.
- f) The pump **must** include a re-circulation line to prevent pump overheating.

3.23.3 **CAFS Air Compressor**

- a) The CAFS **must** be provided with an air compressor with sufficient output to meet the specified performance requirements.
- b) The compressor **must** be an oil injected screw type design.
- c) The compressor **must** be provided with a Gates, Poly Chain Belt Drive System to ensure positive engagement of the compressor drive and prevent belt slippage in the event of inclement weather and or inadvertent contamination of the belt surface through spillage of oil or foam solution onto the belt drive.
- d) The compressor **must** be provided with an automatic means of balancing air pressure to water pressure within plus/minus 5 percent, throughout the operating range.
- e) The compressor oil tank **must** be equipped with a sight gauge.

3.23.4 **CAFS Foam System**

- a) The CAFS **must** be provided with an integrated foam proportioning system compatible with "class A" foam concentrates.
- b) The foam system **must** be plumbed to both hose reels, the side discharge, the rear discharge and the bumper turret.
- c) The foam system **must** be provided with check valves to prevent foam concentrate from entering the water system, and water from entering the foam system.
- d) The system **must** be sized to meet the flow requirements of the hose reels and bumper turret monitor.
- e) The foam proportioning system **must** be a fully automatic design, with direct injection into the discharge side of the pump.
- f) The foam proportioning system **must** deliver accuracy to within 3 percent of calibrated settings.

3.24 Discharge and Inlet Plumbing

- a) All plumbing for discharge outlets and suction inlets **must** be schedule 10 stainless steel or heavy duty high pressure wire reinforced flexible hose with stainless steel couplings, to prevent corrosion.
- b) Victaulic couplings **must** be used on the plumbing system to ease with component removals.
- c) Pump discharges **must** be provided with adapters and required elbows.
- d) The system **must** be equipped with a drain, designed to allow complete draining of the pump system.

3.24.1 Dump Valves

- a) The water tank **must** be provided with a left side discharge dump valve.
- b) The dump valve **must** be 250mm by 250mm (10 inch by 10 inch).
- c) The dump valve must be telescopic extending a minimum of 460mm (16 inch) outside the vehicle body.
- d) The valves **must** have a locking mechanism, to prevent accidental opening.
- e) The telescoping chutes **must** be manually operated and designed with a spring-loaded clip, enabling the chute to be locked and released easily and quickly.
- f) The dump valve and telescoping chute **must** be completely disassembled and finish painted to match the vehicle body before installation.

3.24.2 Direct Tank Filling

- a) The vehicle **must** be equipped with two valves on the water tank fill lines to allow water from external sources to fill into water tank.
- b) One 65mm (2½ inch) manual valve **must** be provided at the right side pump control panel.
- c) One 65 mm (2½ inch) checked valve **must** be provided at the rear of the vehicle.

3.24.3 Rear Discharge

- a) The vehicle **must** be provided with one 65mm (2½ inch) discharge, plumbed to flow water only, water/foam only, and compressed air foam, at the rear of the vehicle.
- b) The rear discharge **must** be provided with a 65mm (2½ inch) ball valve.
- c) The rear discharge valve **must** be controlled from the pump operator control panel.

3.24.4 **Side Discharges**

- a) The vehicle **must** be provided with two 38 mm (1½ inch), side mounted discharge outlets, plumbed to flow water only, water/foam only, and compressed air foam, one on each side of the vehicle.
- b) The side discharge valves **must** be 38mm (1½ inch) ball valves.
- c) The side discharge valves **must** be located near the deck platform.

3.25 **Hose Reels**

- a) Two hose reels **must** be provided, one on each side of the vehicle.
- b) The hose reels **must** be provided with an aluminium reinforced frame, electric rewind motors accessible from the ground and a manual backup function in case of an electrical failure.
- c) Each hose reels **must** hold a minimum of 60 metres (200 ft) of 25.4 mm (1 inch) diameter hose.
- d) Each hose reel **must** be provided with a 38 mm (1½ inch) swing out valve.
- e) The reels **must** be provided with chrome plated hose guide rollers.
- f) The hoses **must** be ReelTex model 3215 or equivalent.
- g) Each hose **must** be equipped with a low flow, low pressure, combination fog/smooth bore nozzle with single shutoff and pistol grip.
- h) The hoses **must** be capable of discharge: water only, water/foam only, air only, and compressed air foam solutions.
- i) The hose reel system **must** be equipped with provisions to drain the hoses before storing on the hose reels.
- j) The nozzles **must** be placed to allow for access from the walkway of the vehicle.

3.26 **Front Bumper**

- a) A bumper of sufficient strength including an apron to incorporate the turret system **must** be provided.
- b) The bumper and apron **must** be protected with a spray on protective coating to protect against abrasion, impact and corrosion.
- c) The outer edges of the bumper **must** be provided with upright pole style bumper guides.

3.27 **Front Bumper Turret**

- a) A front bumper turret **must** be mounted must be provided.

- b) The monitor provided **must** be Akron 3463 FireFox Electronic Monitor or approved equivalent with Akron 3293 FireFox electric nozzle or approved equivalent.
- c) The monitor nozzle **must** be low flow with minimum discharge range of 30 GPM to 125 GPM.
- d) A joy stick control **must** be mounted in the centre of the drive and passenger seating positions to provide vertical and horizontal monitor control, automatic oscillation control, and automatic stow and deploy control, on and off electric valve control, and automatic pattern control from straight stream to fog.
- e) The monitor **must** provide a minimum of 90° of horizontal travel to each side of centre and 45° of vertical travel above and below centre.
- f) The monitor **must** be plumbed into the CAFS and discharge water only, foam/water only, and compressed air foam.
- g) The monitor **must** also be provided with a straight bore tube sized.
- h) As applicable, the monitor **must** be provided with a quick disconnect to allow easy removal for hood tilt operations during engine servicing.
- i) The vehicle **must** be equipped with an indicator that will provide the vehicle operator with a visual indication of the monitor's discharge direction from the driver's and passenger seat.

3.28 Under Truck Protection

- a) The vehicle **must** be provided with under truck protection nozzles.
- b) Each discharge **must** be placed to maximized ground area protection.
- c) System control **must** be provided within reach of the driver.

3.29 Grass Nozzles

- a) The vehicle **must** be provided with grass fire sweep nozzles.
- b) One nozzle directing water to the left and the other to the right **must** be provided.
- c) Each nozzle **must** be independently controlled with an easy to reach ¼ turn ball valve allowing water to one side only.
- d) System control **must** be provided within reach of the driver.

3.30 CAFS Controls and Gauges

3.30.1 Exterior CAFS Control Panel

- a) The vehicle **must** be equipped with an exterior control panel that operates in full duplex with the interior cab control.

- b) The control panel **must** be located to provide the operator with a 360° view of the area surrounding the vehicle.
- c) The control panel **must** be designed for use by an operator in a standing position, and provide visibility and accessibility of gauges and controls.
- d) The control panel **must** be equipped with protected LED lighting at the top of the panel, controlled on the operator's panel.
- e) The control panel backing **must** have a black scratch resistant finish.
- f) The control panel **must** have weatherproof controls.
- g) The control panel **must** include all controls required to fully operate the fire suppression system including:
 - i. A water tank level indicator;
 - ii. A foam level indicator;
 - iii. A 65 mm (2½ inch) Master water pressure, liquid filled indicator;
 - iv. A 65 mm (2½ inch) Master vacuum indicator;
 - v. A 65 mm (2½ inch) Master air pressure, liquid filled indicator;
 - vi. Pump Primer controls;
 - vii. CAFS operational controls;
 - viii. Liquid filled pressure indicators for all discharges;
 - ix. Tank to Pump electric butterfly valve control;
 - x. Vernier throttle control;
 - xi. CAFS engine oil pressure indicator, with a visual and audible low pressure warning indicator;
 - xii. CAFS engine water temperature indicator, with a visual and audible high temperature warning indicator;
 - xiii. CAFS compressor temperature indicator, with a visual and audible high temperature warning indicator;
 - xiv. CAFS engine voltmeter;
 - xv. CAF engine hour meter;
 - xvi. An unload mode;

- xvii. An automatic setting to provide balancing of the air pressure to water pressure when the CAFS is functioning;
- xviii. Foam system activation controls;
- xix. Foam proportioning controls with rates variable from 0.1% to 1.0%;
- xx. A low and no concentrate warning indicator;
- xxi. Manual backup controls;
- xxii. CAFS compressor air pressure indicator.

3.30.2 **Interior CAFS Cab Control Console**

- a) The vehicle cab **must** be provided with an interior CAFS control console located in the cab, between the seats that operates in full duplex with the exterior control panel.
- b) All gauges, controls, and indicators on the control console **must** be permanently identified.
- c) All switches and controls **must** be backlit, and brighten when activated to indicate to the operator that the switch has been turned on.
- d) Electrical components and wiring for console mounted equipment and accessories **must** be secured within the console, and include wiring service loops where applicable.
- e) The interior cab console **must** include:
 - i. Water tank level indicator;
 - ii. Foam cell level indicator;
 - iii. The front bumper turret controller;
 - iv. CAFS operational controls;
 - v. CAFS engine oil pressure indicator, with a visual and audible low pressure warning indicator;
 - vi. CAFS engine water temperature indicator, with a visual and audible high temperature warning indicator;
 - vii. Compressor temperature indicator, with a visual and audible high temperature warning indicator;
 - viii. CAFS pump and compressor pressure indicators;
 - ix. Siren controller;
 - x. An electric valve controller for the tank-to-pump valve;

- xi. Foam system activation controls; and
- xii. A low and no concentrate warning indicator.

3.31 Water and Foam Level Gauges

- a) The water and foam tank level gauges **must** be LED.
- b) The gauges **must** be equipped with a flashing warning, when respective tanks reach 25% full.

3.32 Vehicle Body

- a) The vehicle body **must** be fabricated from aluminium for corrosion prevention, durability, strength, and integrity of the body construction.
- b) The vehicle body **must** be equipped with enclosed weather resistant compartments for equipment storage.
- c) The cabinet floors **must** be designed to allow easy sweep out of debris, be ventilated, and have provisions for drainage of moisture.
- d) The compartments floors **must** be provided with a compartment matting.
- e) Cabinet interiors **must** be lit using protected LED lighting that automatically turn on when the door is opened and turn off when the door is closed.
- f) The vehicle **must** be equipped with brush guards for vehicle roof lights.
- g) A spray on protective coating to protect against abrasion, impact and corrosion **must** be applied on vehicle roof light brush guards.
- h) Storage and equipment restraints **must** be provided for two nominal 3.05 m (10 foot) sections of 76 mm (3 inch) diameter hard suction hose.
- i) Vehicle body design **must** keep the operators from climbing on the body roof, or appropriated railing **must** be provided.

3.33 Compartments

- a) Compartments doors **must** be equipped with keyed locks to secure compartment doors during vehicle movement.
- b) Compartments **must** be ventilated.
- c) The compartments **must** have roll-up doors, equipped with a strap to assist with door closure (if required), interior door seals and a means to hold the door in the open position.
- d) The compartments **must** be manufactured and sized to maximise available space.
- e) The compartments **must** be as low as possible to access tooling/components from a standing position.

- f) One compartment at the rear of the vehicle **must** be provided for the storage of six hose pack. Each hose packs have minimum dimensions of 600 mm high (24 inch) x 330 mm wide (13 inch) x 510 mm deep (20 inch).
- g) One side compartments **must** be sized to store one portable pump. Portable pump minimal dimensions 600 mm (42 inch) x 485 mm (19 inch) x 430 mm (17 inch).
- h) The interior wall of the cabinets **must** be provided with provisions to mount 20mm (3/4 inch) plywood sheet. This provision **must** not reduce total usable volume of storage.

3.34 **Paint**

- a) The chassis components **must** be painted black.
- b) The vehicle cab **must** be painted two tone, consisting of FLNA 4006 White over FLNA 3225 Red Akzo-Nobel lead-free, chromate-free high solid LV acrylic urethane paint.
- c) A 12.7 mm gold colour stripe with a 3.18 mm black outline on both sides **must** be placed horizontally around the cab of the vehicle over the two tone paint break line.
- d) The exact line in between white and red will be based on cab design and covered during Pre-Build Meeting.
- e) The vehicle body colour **must** be FLNA 3225 Red.

3.35 **Decals**

- a) All lettering **must** be applied in the ARIAL BLOCK font, sized to accommodate the required text, in the outlined areas.
- b) Lettering and identification numbers **must** be gold colour with black outline.
- c) If room permitting the text “FIRE♣FEU” in reverse **must** applied to the front of the vehicle.
- d) IAW NFPA 1901 white reflective striping **must** be placed horizontally around the cab and sides of the body. The combination of stripes design to be 100 mm (4 in) high for the centre stripe and 25.4mm (1 in) for top and bottom stripes. Striping to be white on cab and chassis and silver on roll up doors.
- e) The vehicle identification number sized 100 mm in height **must** be provided on the front of the vehicle applied to the left and right furthestmost location between the windshield and the bumper.
- f) The vehicle identification number sized 400 mm in height **must** be provided at the rear of the vehicle.
- g) The vehicle identification number sized 500 mm in height **must** be provided on each side of the vehicle near the rear of the vehicle.
- h) The vehicle identification number sized 400 mm in height **must** be provided on the top of the vehicle.

- i) The National Defence Fire Service Crest **must** be applied to both the driver and officer doors, sized and positioned to fit the available space.
- j) The National Defence logo **must** be applied to each side of the vehicle body.
- k) The rear facing sections of the vehicle **must** be provided with red and yellow chevrons in accordance with NFPA 1901.
- l) Decals **must** be applied using high quality vinyl with a clear polyurethane coating, or **equivalent**.

3.36 Corrosion Protection

- a) The vehicle **must** be designed and manufactured to prevent galvanic corrosion.
- b) The materials used in the vehicle manufacturing **must** resist damage or deterioration as a result of cleaning with hot or cold water, steam, or detergents.
- c) A commercial rust prevention coating **must** be applied to the vehicle, such as Krown Rust Control or Rust Check.
- d) A decal and warranty papers for the rust prevention coating **must** accompany the vehicle.

3.37 Warning, Markings and Instruction Plates

- a) All identification, instructional, and warning labels **must** be in both English and French or International symbols.
- b) All identification, instructional, and warning labels **must** within view of the operator.
- c) All indicators and controls **must** be permanently labelled.

3.37.1 Vehicle identification

- a) The vehicle identification information **must** be permanently affixed in a conspicuous and protected location.
- b) Identification information **must** include the cab and chassis manufacturer's name, model number, serial number, and model year.
- c) Identification information **must** include the body manufacturer's model and serial number.
- d) Identification information **must** include the equipment manufacturer's model and serial number.
- e) Identification information **must** include the GVWR and GAWR ratings.

4. INTEGRATED LOGISTIC SUPPORT (ILS)

4.1 Certification

- a) The vehicle **must** be certified IAW NFPA, certification documents provided at/or prior to pre-delivery inspection.
- b) Weight as referred in Para 3.4.2 **must** be provided prior to pre-delivery inspection. DND reserves the right to witness weighing of the vehicle.

4.2 **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	3
Warranty Letter	Digital	X	X	4
Data Summary	Digital	X		4.5.1.
Photographs	Digital	X		4.5.2
Dimensioned Drawing	Digital	X	X	4.5.3
Special Tool List	Digital	X		4.5.4

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

4.3.1 Operator's Manuals

- a) The operator's manuals **must** be in both English and 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.

4.3.2 Parts Manual(s)

- a) The parts manual(s) **must** be in English.

- 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.

4.3.3 **Maintenance Manuals**

- a) The maintenance manual **must** be both in English.
- b) The maintenance manual **must** include the cab and chassis and equipment.
- c) 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.
- d) The maintenance manual **must** include a listing of the necessary tolerances, torque levels, fluid volume, and special tools (including item part numbers).
- e) The maintenance manual **must** include information on the order of disassembly and assembly of the systems and components of the vehicle.
- f) The maintenance manual **must** include special tools list as per 4.5

4.3.4 **Manual Review and Approval by DND Authorities**

- a) Sample manuals **must** be submitted to the Technical Authority (TA) prior to the delivery of the first vehicle for each model and or sub-system for review and approval. Sample manuals will not be returned. TA along with Fire Marshall will review and the TA will provide approval or comments on the manuals within 30 calendar days.
- b) The contractor **must** provide responses to the TA comments.
- c) One (1) complete set of approved manuals (Operator's, Maintenance, and Parts) in electronic format **must** be delivered to the Technical Authority.

4.3.5 **Manual Delivery with Vehicle**

- a) One (1) complete set of manuals (Operator's, Maintenance, and Parts) **must** accompany each vehicle, shipped to each location.

4.3.6 **Electronic Format**

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

4.3.7 **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.

4.3.8 **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.

4.3.9 **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 as applicable 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.
- d) The TA will provide approval or comments on the manuals within 30 calendar days.

4.4 **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.

4.4.1 **Warranty Letter Delivery**

- a) The Contractor **must** provide a warranty letter in both English and French to the Technical Authority. 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.

4.5 **Other ILS Deliverables to Technical Authority**

4.5.1 **Data Summary**

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

4.5.2 **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.
- b) One left front three-quarter view of a completed unit **must** be provided.
- c) One right rear three-quarter view of a completed unit **must** be provided.

4.5.3 **Dimensioned Drawing**

- a) One side, front, rear and top views sketch showing the dimensions **must** be provided. Brochure sketches are acceptable.

4.5.4 **Special Tools List**

- a) The Contractor **must** provide an itemized list of specific special tools required for the servicing and repair of the vehicle.

4.5.5 **Cataloguing Information**

- a) The contractor **must** provide the Technical Authority, upon request, the information necessary to catalogue components or sub-components on the vehicle.
- b) The information **must** be sufficient to allow the Technical Authority to identify, classify and fully describe the part(s) to a NATO standard. This could include specifications, standards, drawings, or catalogues with brief description(s) of relevant dimensional, material, mechanical, electrical and physical performance characteristics. Information /drawings sent to the Technical Authority will not be sent to other suppliers for production and will remain the property of the contractor.

4.5.6 **Major Equipment Serial Numbers**

- a) The Contractor **must** provide a list of all serial numbers recorded during manufacturing which contains description, model and serial numbers. Either electronic or work copy will be acceptable.

4.6 **Safety Recalls and Servicing Data**

- a) Safety recalls, and manufacturer's technical service bulletins, or **equivalent must** be provided to the technical authority (DSVPM 5-2) and the final delivery locations on a continuing basis, throughout the life expectancy of the vehicle or for no less than 10 years.

4.7 **Training**

- 4.7.1 **Training Deliverables** – The following table indicates the ILS Training elements that the Contractor **must** deliver, including the expected means of delivery and the reference paragraph.

Element	Format/ Medium	Delivered to TA by E-mail for approval	Remarks	Reference Paragraph
Course Syllabus	Digital	X	-	4.7.2 d) & 4.7.4 d)
Maintenance Training	-	-	Delivery in person, at the location specified in the contract.	4.7.2 & 4.7.6
Operator Training	-	-	Delivery in person, at the location specified in the contract.	4.7.4 & 4.7.6
Proof of Training Certificate	Digital	X	TA will provide template	476.2 e) & 4.7.4 e)

4.7.2 **Maintenance Training**

- a) The Contractor **must** provide a maintenance training course.
- b) The course **must** be given at the delivery destination and be available in both English and French.
- c) The course **must** have a minimum duration of one day to provide training of up to eight (8) maintenance personnel and have the final dates arranged with the Technical Authority.
- d) The course **must** have a syllabus or course outline and schedule available for review seven (7) days prior to the course commencement date.
- e) After completion of the course, the Contractor **must** have a “*PROOF OF MAINTENANCE TRAINING*” certificate signed by a Canada Representative for the destination. The Technical Authority will supply this document in an electronic format.

4.7.3 **Maintenance Training Curriculum**

- a) Operator's training detailed in Paragraph 4.7.4 below **must** be included in the curriculum.

- b) Operation and maintenance safety precautions **must** be included in the curriculum.
- c) Preventive maintenance including servicing schedules **must** be included in the curriculum.
- d) Trouble shooting, testing, and adjustments **must** be included in the curriculum.
- e) Special tools and test equipment **must** be included in the curriculum.

4.7.4 **Operator Training**

- a) The Contractor **must** provide an operator training course.
- b) The course **must** be given at the delivery destination and be available in both English and French.
- c) The course **must** have minimum duration of one day to provide training for up to eight (8) operators and have the final dates arranged with the Technical Authority.
- d) The course **must** have a syllabus or course outline and schedule available for review seven (7) days prior to the course commencement date. Training to include but not limited to:
 - i. Preventive maintenance performed by operators (NFPA 1002 Chap 4),
 - ii. Compressed Air Foam operation (NFPA 1901 Chap 21),
 - iii. Pump Operator Training (NFPA 1002 Chapter 8) including, produce effective stream from tank, produce effective stream from pressurized source, produce effective stream from a static source, refilling the vehicle with water and proportioning rates & concentration for foam/CAF applications.
 - iv. Auxiliary equipment operation including: winch operation and safety, auxiliary lights, warning lights, hose reels, front bumper monitor, under truck nozzles, installation of the Wildfire Forestry FireFlex or approved equivalent and cab control console.
 - v. Written test for all participant.
 - vi. Review of course after written test.
- e) After completion of the course the Contractor **must** have a “*PROOF OF OPERATOR TRAINING*” certificate signed by a Crown Representative for the destination. The Technical Authority will supply this document in an electronic format.

4.7.5 **Operator Training Curriculum**

- a) Safety precautions to be observed while operating and servicing the vehicle **must** be included in the curriculum.
- b) Vehicle operating characteristics **must** be included in the curriculum.
- c) Vehicle operating procedures **must** be included in the curriculum.

- d) Pre-operating and pre-shutdown procedures **must** be included in the curriculum.
- e) Daily and weekly operator servicing procedures **must** be included in the curriculum.

4.7.6 **Training Materials**

- a) Training materials **must** be provided to each attendee.
- b) Training materials **must** include a list of topics to be covered.
- c) Training materials **must** include an approximate timetable showing when topics are scheduled to be covered and how much time is scheduled for each topic.
- d) Training materials **must** list any reference material.
- e) Training materials **must** make available any reference material used.

4.7.7 **Training Aid**

- a) A bilingual PowerPoint presentation training **must** be provided.
- b) The training aid; as a minimum the English version **must** be provided for review by DND Authorities prior to the initial familiarization training.
- c) Two training aids as itemized in paragraph 4.7 **must** cover all operations and maintenance activities and will be kept by DND.

ATTACHEMENT 1 TO PART 4 - EVALUATION CRITERIA
Technical Evaluation Matrix
Wildland Firefighting Vehicle with Compressed Air Foam System (CAFS)
Date: 31 Januray 2023

Bidder Information

Bidder Name: _____
 Proposal Date: _____
 Proposed Make and Model: _____

Technical Mandatory Criteria			
PD Reference	PD Requirement	Bid Evaluation Requirement	Location in Bid Proposal
3.1 b)	Standard Requirement 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.	The Bidder must provide client information for industry acceptability or experience as specified in the purchase description.	
3.4.3	Dimensions a) The vehicle must have road legal dimensions across Canada. b) The maximum overall height of the vehicle must be a maximum of 3.75 metres (12.5 feet). c) The maximum overall length of the vehicle must be a maximum of 9.14 metres (30 feet).	The bidder must provide a dimensionned drawings of the proposed vehicle.	
3.22 b)	Water Tank The water tank must have a minimum certified capacity of 4542 litres (1,200 US gallons).	Substantive information.	
3.23 a)	Foam Tank The vehicle must be equipped with a 115 litre (30 US gallon) Class A foam tank.	Substantive information.	
3.24 a)	Compressed Air Foam System (CAFS) A self-contained, slide in type CAFS must be provided.	Substantive information.	
Proposed Equivalents			
PD Reference	PD Requirement	Bid Evaluation Requirement	Location in Bid Proposal