

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

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

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

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

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

Comments - Commentaires

Title - Sujet TRUCK, F/F, WATER SUPPLY		
Solicitation No. - N° de l'invitation W8476-155160/A	Date 2015-02-05	
Client Reference No. - N° de référence du client W8476-155160		
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-923-66706		
File No. - N° de dossier hp923.W8476-155160	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-03-18		Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Martin, Erik		Buyer Id - Id de l'acheteur hp923
Telephone No. - N° de téléphone (819) 956-3842 ()		FAX No. - N° de FAX (819) 953-2953
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes		

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Vehicles & Industrial Products Division
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

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

Solicitation No. - N° de l'invitation

W8476-155160/A

Amd. No. - N° de la modif.

File No. - N° du dossier

hp923W8476-155160

Buyer ID - Id de l'acheteur

hp923

Client Ref. No. - N° de réf. du client

W8476-155160

CCC No./N° CCC - FMS No/ N° VME

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PART 1 - GENERAL INFORMATION

1. Requirement

Canada is seeking proposals to procure:

- 1.1 Three (3) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items as described in Annex “A”- Pricing and in accordance with Annex “B”- Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus
- 1.2 Irrevocable options identified in Annex “A”- Pricing.
 - 1.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
 - 1.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex “A”- Pricing.
 - 1.2.3 The options may be exercised within twelve (12) months after contract award.

2. Debriefings

Bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

3. Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

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

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. The 2003 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days

Insert: ninety (90) days

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

3. Enquiries - Bid Solicitation

All enquiries must be submitted to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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 questions or may request that the Bidder do so, so that the proprietary nature of the question 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.

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in *Ontario*.

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.

5. Environmental Considerations

Canada is committed to greening its supply chain. In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to acquire products and services that have a lower impact on the environment than those traditionally acquired. Environmental performance considerations include, among other things: the reduction of greenhouse gas emissions and air contaminants; improved energy and water efficiency; reduced waste and support reuse and recycling; the use of renewable resources; reduced hazardous waste; and reduced toxic and hazardous substances. In accordance with the Policy on Green Procurement, for this solicitation:

- Offerors / suppliers are requested to provide all correspondence including (but not limited to) documents, reports and invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.
- Offerors / suppliers should recycle (shred) unneeded copies of non-classified/secure documents (taking into consideration the Security Requirements).
- Product components used in performing the services should be recyclable and/or reusable, whenever possible.

6. Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications, Statement of Work or Purchase Description 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 seven (7) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies);

Section II: Financial Bid (1 hard copy);

Section III: Certifications (2 hard copies);

Section IV: Additional Information (2 hard copies)

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

2. Section I: Technical Bid

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

Bidders should complete and submit with their bid the following;

- Appendix "1" - Technical Information Questionnaire - Truck, Firefighting, Mobile Water Supply Fire Apparatus.

2.1 Substitutes and Alternatives

Bidders may propose substitutes and alternatives where "**shall^(E)**" is indicated in the technical requirement description (Purchase Description/Statement of Requirement/Statement of Work). Offerors / suppliers are encouraged to offer or suggest green solutions whenever possible.

2.1.1 Substitutes and alternatives that are equivalent in form, fit, function and performance will be considered for acceptance by the Technical Authority where the Bidder:

- (a) Clearly identifies a substitute and/or an alternative;
- (b) Designates the brand name, model and/or part number of the substitute and/or of the product, where applicable;
- (c) States that the substitute product is fully interchangeable with the item specified in the technical requirement description;
- (d) Provides complete specifications and brochures, where applicable;
- (e) Provides compliance statements that include technical details showing the substitute and/or the alternative meet all technical requirements specified in the technical requirement description; and
- (f) 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.



2.1.2 Substitutes and alternatives offered as equivalent in form, fit, function and performance will not be considered for acceptance by the Technical Authority if:

- (a) The bid fails to provide all of the information requested to allow the Technical Authority to fully evaluate the evaluate the equivalency; or
- (b) The substitute and/or the alternative fail to meet or fail to exceed the technical requirements specified in the technical requirement description.

3. Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1 Exchange Rate Fluctuation Risk Mitigation

- 3.1.1 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 , 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.
- 3.1.2 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.
- 3.1.3 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).
- 3.1.4 At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450 , 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.
- 3.1.5 Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

4. Section III: Certifications

Bidders must submit the certifications required under Part 5 - Certifications.

5. Section IV Additional Information

Canada requests that bidders submit the following information:

5.1 Delivery

5.1.1 Firm Quantity

While delivery of the vehicles is requested by March 31, 2015, the best delivery that can be offered is as follows:

Item 001 – One (1), Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items will be delivered within _____ calendar days from the effective date of the contract.

Item 002 – One (1), Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items will be delivered within _____ calendar days from the effective date of the contract.

Item 003 – One (1), Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items will be delivered within _____ calendar days from the effective date of the contract.

5.1.2 Optional Quantity

If an option is exercised, the best delivery that can be offered is as follows:

Item 004 – Up to two (2) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items will be delivered within _____ calendar days after an option is exercised.

5.2 Manufacturer's Standard Warranty Period

Canada requests that the Bidder provide details of the manufacturer's standard warranty period for the vehicle/equipment and its component that exceeds the minimum warranty period of twelve (12) months.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

1.1 Mandatory Technical Evaluation Criteria

1.1.1 Mandatory Proof of Compliance

Bidders must submit, with their bid, all proof of compliance required in the Annex B - Purchase Description and the Appendix 1 - Technical Information Questionnaire.

1.1.2 Substitutes and/or Alternatives

Bidders proposing substitutes and/or alternatives must provide all the information as detailed in Part 3, Section 2 - Substitutes and Alternatives to be considered for evaluation.

1.2 Mandatory Financial Evaluation Criteria

1.2.1 Bidders must provide, with their bid, the financial information requested in the bid solicitation and at Annex A - Pricing for items 001, 002, 003.

1.2.2 The prices of the bid Bids must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for the firm quantity (items 001, 002 and 003) and FCA Free Carrier at Contractor's Canadian facility, Incoterms 2000 for optional quantities (item 004). Canadian Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

1.2.3 Aggregate Evaluated Price

Bids will be evaluated on an aggregate price basis for the firm quantity, optional quantity and familiarization instruction/training (option) as follows:

- a) the firm unit price for the firm quantity, the optional quantity and familiarization instruction/training (option) will be multiplied by their identified estimated quantities; and
- b) the sum of all results will determine the aggregate evaluated price.

2. Basis of Selection

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

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and associated information to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, 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.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

1. Certifications Required Precedent to Contract Award

1.1 Integrity Provisions – Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

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" list (http://www.labour.gc.ca/eng/standards_equality/eq/emp/fcp/list/inelig.shtml) available from Employment and Social Development (ESDC) - Labour's website.

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.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex (C) Federal Contractors Program for Employment Equity - Certification, before contract

award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

2. Additional Certifications Required Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications 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 comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

2.1 Product Conformance

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 the purchase description(s).

This certification does not relieve the bid from meeting all mandatory technical evaluation criteria detailed in Part 4.

Bidder's authorized representative signature

Date

PART 6 - RESULTING CONTRACT CLAUSES

1. Requirement

- 1.1 The Contractor must deliver three (3) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items as described in Annex "A" - Pricing and in accordance with Annex "B" - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus
- 1.2 The Contractor grants to Canada irrevocable options identified in Annex "A"- Pricing.
 - 1.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
 - 1.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex "A"- Pricing.
 - 1.2.3 The options may be exercised within Twelve (12) months after contract award.
- 1.3 Optional Extended Warranty Period (**if applicable**)

The Contractor grants to Canada the irrevocable option to extend the warranty period for an additional ____ (to be inserted by PWGSC at time of contract award) months, under the same terms and conditions and at the price stated in the Contract at Annex "A" - pricing. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within ninety (90) calendar days after contract award and/or the exercising of an option by sending a written notice to the Contractor.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual *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.

2.1 General Conditions

2010A (2014-11-27) General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

Section 09 entitled Warranty of general conditions 2010A is amended by deleting subsection 2 in its entirety and replacing it with the following:

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.

If action to effect repairs under warranty cannot be initiated within **two (2)** working days and completed within a reasonable length of time or if the Contractor has no repair facilities in the immediate vicinity (**within 100 kilometres**) of the specified delivery destinations (consignees), the Department of National Defence reserves the right to make such repairs and be reimbursed by the Contractor at the rate of **\$103.91** per hour for labour and the cost for replaced parts."

(If applicable)

2.1.1 Section 09 of general conditions 2010A is amended by replacing the period of twelve (12) months by twenty-four (24) months.

All other provisions of the warranty section remain in effect.

3. Term of Contract

3.1 Delivery of Vehicle

3.1.1 Firm Quantity

Delivery date of the vehicles must be made as follows:

Item 001 – One (1) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

Item 002 – One (1) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

Item 003 – One (1) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

3.1.2 Option Quantity

Item 004 – Up to two (2) Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items to be delivered within _____ calendar days after an option is exercised. (Days to be inserted by PWGSC the Contracting Authority at time of contract award.)

4. Authorities

4.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Erik Martin
Title: Supply Specialist
Organization: Public Works and Government Services Canada - Acquisitions Branch
LEFT Directorate, HP Division,
7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec,
K1A 0S5
Telephone: 819 956-3842
Facsimile: 819 953-2953
E-mail: erik.martin@pwgsc-tpsgc.gc.ca

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.

4.2 Procurement Authority

The Procurement Authority for the Contract is:

Name: _____ (To be inserted by PWGSC at time of contract award.)
Title: _____
Organization: _____

Telephone: _____

Facsimile: _____

E-mail: _____

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

4.3 Technical Authority:

The Technical Authority for the Contract is:

Name: _____ (To be inserted by PWGSC at time of contract award.)

Title: _____

Organization: _____

Telephone: _____

Facsimile: _____

E-mail: _____

The Technical Authority named above 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.

4.4 Contractor's Representative

Name and telephone number of the person responsible for:

General enquiries

Name: _____ (To be completed by the bidder.)

Title: _____

Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail: _____

Delivery follow-up

Name: _____ (To be completed by the bidder.)
Title: _____
Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail: _____

4.5 After Sales Service

- 4.5.1 The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs and a full range of repair parts for the vehicle/equipment offered:

Item 001

Name: _____
Address: _____

Telephone Number: _____

Distance between the delivery location and the dealer and/or agent: _____ km

Item 002

Name: _____
Address: _____

Telephone Number: _____

Distance between the delivery location and the dealer and/or agent: _____ km

Item 003

Name: _____
Address: _____

Telephone Number: _____

Distance between the delivery location and the dealer and/or agent: _____ km

5. Payment

5.1 Basis of Payment - Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm unit price(s) specified in Annex "A" - Pricing, and as follows:

Basis of Payment (BOP) Type 1: Firm unit prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

Basis of Payment (BOP) Type 2: Firm unit prices in Canadian dollars, FCA Free Carrier, Incoterms 2000 at Contractor's Canadian facility or Contractor's Canadian distribution point, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

Basis of Payment (BOP) Type 3: Price to be negotiated in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Canadian Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

The transportation cost and living expense will be "negotiated" when Canada intends to exercise an option and has identified the applicable quantities and destinations. When requested by Canada, as a basis for negotiation, the Contractor must provide the transportation price(s) and/or Travel and living expense and relevant information.

Basis of Payment (BOP) Type 4: If exercised, the Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint

Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/index.php?sid=90&hl=1&lang=eng>), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

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.



5.2 SACC Manual Clauses

H1001C Multiple Payments

2008-05-12

5.3 Exchange Rate Fluctuation Adjustment

- 5.3.1 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.
- 5.3.2 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.
- 5.3.3 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 provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:
- $$\text{Adjustment} = FCC \times Qty \times (i_1 - i_0) / i_0$$
- where formula variables correspond to:
- FCC Foreign Currency Component (per unit)
- i_0
Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])
- i_1
exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])
- Qty quantity of units
- 5.3.4 The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.

- 5.3.5 For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
- 5.3.6 The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or 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 , Claim for Exchange Rate Adjustments.
- 5.3.7 The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGSC-TPSGC 450  (i.e. $[i_1 - i_0] / i_0$).
- 5.3.8 Canada reserves the right to audit any revision to costs and prices under this clause.

6. Invoicing Instructions

- 6.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions including the Client Ref # _____. Invoices cannot be submitted until all work identified in the invoice is completed. Offerors / suppliers are requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.

Each invoice must be supported by:

- (a) a copy of the release document and any other documents as specified in the Contract;

- 6.2 Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the following address for certification and payment:

National Defence Headquarters
Mgen George R. Pearkes Bldg
101 Colonel By Drive
Ottawa, Canada
K1A 0K2

Attention: DLP 5-5-1-2

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

6.3 Holdback

A ten percent (10%) holdback will apply on the total price of each vehicle (items 001,002,003 and 004) on any due payment of the said vehicle/equipment. Release of the holdback (10%) is conditional upon receipt and certified acceptance by inspection authority of the said vehicle and all related items as identified in Annex "A" - Pricing.

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 Taxes payable as it was claimed and payable under the previous invoice.

- (a) The original and one (1) copy of the invoice for the holdback must be forwarded to the Procurement Authority identified under the section entitled "Authorities" of the Contract.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

7. Certifications

7.1 Compliance

Compliance with the certifications and related documentation 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, provide the related documentation or if 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.

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

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

8. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

9. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) 2010A (2014-11-27) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus;
- (e) Appendix 1- Technical Information Questionnaire - Truck, Firefighting, Mobile Water Supply Fire Apparatus;
- (f) Annex "C", Federal Contractors Program for Employment Equity - Certification;
- (g) the Contractor's bid dated _____

10. SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors	2014-11-27
D5510C	Quality Assurance Authority (Department of National Defence) - Canadian-based Contractor	2014-06-26
D5515C	Quality Assurance Authority (DND) - Foreign-based and United States Contractor	2010-01-11
D5540C	ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)	2010-08-16
D5604C	Release Documents - Foreign based Contractor	2008-12-12
D5605C	Release Documents - US based Contractors	2010-01-11
D5606C	Release Documents - Canadian-based Contractors	2012-07-16
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2008-05-12

11. Inspection and Acceptance

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 Statement of Work 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.

12. Preparation for Delivery

The vehicle / equipment must be serviced, adjusted and delivered in condition for immediate use. The interior and exterior must be cleaned before leaving the factory and being released to inspection authority or consignee personnel at the final delivery location.

The fuel tanks must be at least half full prior to release of the vehicle(s) to inspection authority or consignee.

All vehicles delivered to the consignee are to be delivered between the hours of 8:00 am and 4:00 pm Monday through Friday, except Federal holidays. Any attempt by the carrier to deliver vehicles before or after these hours may be refused unless arrangements have been made for authorized, qualified personnel to be available to perform inspections and to accept the delivery. 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.

13. Shipping Instructions - Delivery at Destination (For Firm quantities)

13.1 The Contractor must ship the goods prepaid DDP - Delivered Duty Paid to destinations (as detailed at Annex "A" - Pricing). Unless otherwise directed, delivery must be made by the most economical means. Shipping charges must be shown as a separate item on the Contractor's invoice. The Contractor is responsible for all delivery charges, administration, costs and risks of transport and customs clearance, including the payment of customs duties and taxes.

13.2 The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the contacts specified in Annex "A" - Pricing. The consignee may refuse shipments when prior arrangements have not been made.

14. Release Documents - Distribution

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

- a. One (1) copy mailed to consignee marked: "Attention: Receipts Officer";
- b. Two (2) copies with shipment (in a waterproof envelope) to the consignee;
- c. One (1) copy to the Contracting Authority;
- d. One (1) copy to:

National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
Attention: _____

- e. One (1) copy to the Quality Assurance Representative;
- f. One (1) copy to the Contractor; and
- g. For all non-Canadian contractors, one (1) copy to:
DQA/Contract Administration
National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A OK2
E-mail: ContractAdmin.DQA@forces.gc.ca.

NOTE: For into-plane refuelling contracts b, c and d above are not required

15. Post-Contract Award Meeting/Pre-Production Meeting

Within ten (10) working days of the receipt of the Contract, the Contractor must contact the Technical Authority to determine the details of a pre-production meeting. The meeting will be held at the Contractor's plant_____ (Bidders must specify location). Cost of holding such pre-production meeting must be included in the price of the bid. Please note that the travel and living expenses for Government Personnel will be arranged and paid for by the Canada. The crown reserves the right to carry out the Post-Contract Award Meeting/Pre-Production Meeting via teleconference.

16. Progress Reports

The Contractor must submit monthly 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.

17. Tools and Loose Equipment

For shipment verification, all items and tools, which are shipped loose with the vehicle/equipment must be listed on the Inspection Certificate (CF 1280) or on an attached packing note.

18. Spare Parts Availability

The contractor must ensure that spare parts required to properly maintain and repair the complete vehicle covered by this specification will be available for purchase by the Department of National Defence, or its authorized agents, for a period of 10 years.

19. Material

Material supplied must be new unused and of current production by manufacturer. (2015 model-year or newer).

20. Design Changes

The "Design Change, Design Deviation and Waiver Procedure" as defined in National Defence Standard D-02-006-008/SG-0001 must apply.

21. Interchangeability

Unless changes during the production run are authorized by Procurement Authority, all vehicles 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.

22. Packaging

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.

23. Service at Delivery

The Contractor must send a Service Representative to each delivery destination to perform the assembly/preparation on all vehicles delivered. Cost to provide this service must be included in the price of each vehicle.

24. Vehicle Recall Notices

All vehicle recall notices must be forwarded to:

National Defence Headquarters
MGen George R. Pearkes Building
101 Colonel By Drive
Ottawa, Ontario K1A 0K2

Attention: (designation and name of TA to be inserted by PWGSC at contract award)

ANNEX “A” - PRICING**Item 001** Truck, Firefighting, Mobile Water Supply Fire Apparatus (**Firm Quantity**)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all approved manuals, data summary, photographs, warranty letter(s), preventative maintenance replacement parts kit list, line setting ticket, special tools list and familiarization training in accordance with the attached Annex “B” - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus.

The Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items must be delivered to:

3 ASG GAGETOWN SUPPLY COMPANY
Major Equipment Section
BLDG B10
CFB Gagetown
Omorocto, NB
E2V 4J5
Canada

Delivery contact: _____ (Name to be inserted by PWGSC at time of contract award.)

Date of delivery: _____ (Date to be inserted by PWGSC at time of contract award.)

Firm unit price of \$ _____ per vehicle, including all equipment and related items, in accordance with Basis of Payment Type 1 (as detailed at Clause 5.1 Basis of Payment).

Quantity: One (1)

Item 002 Truck, Firefighting, Mobile Water Supply Fire Apparatus (**Firm Quantity**)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all approved manuals, data summary, photographs, warranty letter(s), preventative maintenance replacement parts kit list, line setting ticket, special tools list and familiarization training in accordance with the attached Annex “B” - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus.

The Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items must be delivered to:

CFB/ASU WAINWRIGHT Base Supply
Major Equipment Section

BLDG 593
CFB/ASU WAINWRIGHT
DENWOOD, AB
T0B 1B0
Canada

Delivery contact: _____ (Name to be inserted by PWGSC at time of contract award.)

Date of delivery: _____ (Date to be inserted by PWGSC at time of contract award.)

Firm unit price of \$ _____ per vehicle, including all equipment and related items, in accordance with Basis of Payment Type 1 (as detailed at Clause 5.1 Basis of Payment).

Quantity: One (1)

Item 003 Truck, Firefighting, Mobile Water Supply Fire Apparatus (**Firm Quantity**)

The Contractor must deliver the vehicle/equipment including the sample manuals, CD of all approved manuals, data summary, photographs, warranty letter(s), preventative maintenance replacement parts kit list, line setting ticket, special tools list and familiarization training in accordance with the attached Annex "B" - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus.

The Truck, Firefighting, Mobile Water Supply Fire Apparatus and related items must be delivered to:

CFB Suffield
Base Supply Section
CFB Suffield
Suffield, AB
T0J 2N0
Canada

Delivery contact: _____ (Name to be inserted by PWGSC at time of contract award.)

Date of delivery: _____ (Date to be inserted by PWGSC at time of contract award.)

Firm unit price of \$ _____ per vehicle, including all equipment and related items, in accordance with Basis of Payment Type 1 (as detailed at Clause 5.1 Basis of Payment).

Quantity: One (1)

Item 004 Truck, Firefighting, Mobile Water Supply Fire Apparatus (Optional Quantity)

If this option is exercised, the Contractor must deliver the vehicle/equipment including a complete set of technical manuals, line setting ticket and the warranty letter in accordance with the attached Annex “B” - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus.

Firm unit price of \$ _____ per vehicle/equipment in accordance with Basis of Payment Type 2 (as detailed at Clause 5.1 Basis of Payment).

Quantity: up to two (2)

Item 005 Familiarization instructions/training (Option)

If this option is exercised, the Contractor must provide familiarization instruction/training, in accordance with the attached Annex “B” - Purchase Description - Truck, Firefighting, Mobile Water Supply Fire Apparatus.

Firm unit price of \$ _____ in accordance with Basis of Payment Type 2 (as detailed at Clause 5.1 Basis of Payment).

Quantity: up to two (2)

Item 006 Transportation Cost (optional Quantities)

(Item 006 will not be included in the financial evaluation)

If optional transportation is exercised, the contractor must deliver the vehicle/equipment to final destination detailed below.

The (type of vehicle) and ancillary items must be delivered to:
_____(to be provided by PWGSC if an option is exercised)

Delivery contact: _____ (Name to be inserted by PWGSC if an option is exercised.)

Date of delivery: _____ (Date to be inserted by PWGSC if an option is exercised.)

Quantity: Up to two (2)

Negotiated price: \$(to be negotiated if an option is exercised) per vehicle/equipment, for transportation cost, Delivered Duty Paid at destination, in accordance with Clause 5.1, Basis of Payment Type 3.

Item 007 Travel and Living for Familiarization Instruction/Training (Option)

(Item 007 will not be included in the financial evaluation)

All travel must have the prior authorization of the Technical Authority. All payments are subject to government audit.

When requested by Canada, the Contractor must provide an estimated cost for the travel and living.

Estimated cost: _____ Familiarization Instruction/Training, for Travel and Living expenses, Delivered Duty Paid at destination, in accordance with Clause 5.1, Basis of Payment Type 4.

Quantity: up to two (2)

Item 008 Optional Extended Warranty Period

Optional warranty coverage available: YES _____ NO _____

(Item 008 will not be included in the financial evaluation)

If yes, Canada requests that the Bidder provide details and pricing information of any optional extended warranty period available for the vehicle/equipment and any related items.

If exercised, the warranty period will be extended for an additional period of _____ months/calendar days.

Firm unit price of \$ _____ Basis of Payment Type 2 (as detailed in Clause 5.1)



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.

ANNEX "B"
PURCHASE DESCRIPTION
FOR
TRUCK, FIREFIGHTING,
MOBILE WATER SUPPLY FIRE APPARATUS

ECC 189200

1. SCOPE

1.1 Scope - This Purchase Description describes the requirements for a Mobile Water Supply Fire Apparatus. The apparatus includes a minimum 13,638 litre (3000 Imp gallon) single compartment water tank, mounted on a 6x6 Heavy Truck.

1.2 Instructions - The following instructions apply to this Purchase Description:

- (a) Requirements, which are identified by the word "**shall**", are mandatory. Deviations will not be permitted;
- (b) Requirements identified by "**shall**^(B)" are mandatory. The Technical Authority will consider substitutes/alternatives for acceptance as an equivalent;
- (c) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- (d) Where "**shall**", "**shall**^(B)", or "will" are not used, the information provided is for guidance only;
- (e) In this document "provided" **shall** mean "provided and installed";
- (f) Where technical certification is required, a copy of the certification or an acceptable proof of compliance **shall** be provided;
- (g) Metric measurements **shall** be used to define the requirement. Other measurements are for reference only and may not be exact conversions; and

- (h) Dimensions stated as nominal **shall** be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, which differ from the actual measured dimensions.

1.3 Definitions - The following definitions apply to the interpretation of this Purchase Description:

- (a) "Technical Authority" (TA) - The government official responsible for technical content of this requirement.
- (b) "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.
- (d) "Guidance" - Guidance is provided to indicate a solution that would suit the application. The Contractor can be technically compliant while deviating from "guidance".
- (e) "Apparatus" and "Vehicle" - The entire vehicle including all systems and sub-systems, in a complete manufactured state which will be deployed in firefighting operations as intended for the built configuration.
- (f) "Manufacturer" or "Original Equipment Manufacturer (OEM)" - The Company responsible for the apparatus and/or sub-system design, development, assembly, test and evaluation, and performance verification.

2. APPLICABLE DOCUMENTS - The following documents form part of this Purchase Description. Effective dates **shall** be those in effect upon the date of manufacture. Sources are as shown:

Canadian Motor Vehicle Safety Standards (CMVSS)

Transport Canada,
Road Vehicle and Motor Vehicle Regulation,
330 Sparks Street, Tower C,
Ottawa, Ontario K1A 0N5
<http://www.tc.gc.ca/acts-regulations/GENERAL/M/mvsa/menu.htm>

CAN/ULC-S515

Underwriters' Laboratories of Canada
Automobile Fire Fighting Apparatus
200-440 Laurier Ave West
Ottawa, Ontario K1R 7X6
<http://www.ulc.ca>

Highway Traffic Act

www.e.laws.gov.on.ca
O.Reg.413/05

NFPA 1901 - Standard for Automotive Fire Apparatus

NFPA 1906 - Standard for Wildland Fire Apparatus

National Fire Protection Association (NFPA)
1 Batterymarch Park
Quincy, Massachusetts 02169-7471
<http://www.nfpa.org>

SAE Handbook

Society of Automotive Engineers Inc.
400 Commonwealth Dr.,
Warrendale, PA, 15096
<http://www.sae.org>

Yearbook

Tire and Rim Association Inc.,
3200 West Market St.,
Akron, Ohio, 44321
<http://www.us-tra.org/traHome.htm>

3. REQUIREMENTS

3.1 Standard Design

- (a) **Latest Model** - The vehicle design **shall** be the manufacturer's latest model.
- (b) **Industry Acceptability** - The vehicle design **shall** have demonstrated industry acceptability by having been manufactured and sold commercially for at least 2 years, or be manufactured by a company that has at least 5 years of experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity.
- (c) **Engineering Certification** - The vehicle design **shall** have engineering certification available, upon request, for this vehicle/equipment from the original manufacturers of major drive train components and major equipment systems and assemblies.
- (d) **Regulations** - The vehicle **shall** conform to all applicable laws, regulations and industry standards governing manufacture, safety, noise levels and pollution in effect in Canada at time of manufacture.
- (e) **Published Ratings** - The vehicle **shall** have system and component capacities equivalent to published ratings (i.e. product or component brochures).
- (f) **Standard Components** - The vehicle **shall** include all standard components, equipment and accessories for the model offered, although they may not be specifically described in this Purchase Description.
- (g) **Couplings** - Unless otherwise specified, all inlets, discharges, and hoses **shall** be equipped with Storz couplings.

3.2 Operating Conditions - The vehicle **shall** operate safely on paved roads, gravel roads, dirt roads with severe washboard, and potholes, in all seasonal conditions found in Canada, in a temperature range of -40°C to 37°C (-40°F to 98°F).

3.3 Safety

3.3.1 Vehicle Safety Regulations

- (a) The completed vehicle **shall** comply with all Canada Motor Vehicle Safety Standards (CMVSS) for trucks in effect and applicable by law in Canada at the time of body integration.

- (b) The completed vehicle **shall** have Safety Compliance Certification Label with a **National Safety Mark (NSM)**, as a seal of compliance.
- (c) The contractor **shall** submit, the variant equipment integrator NSM certification number as a proof of registration with Transport Canada as a final stage manufacturer.
- (d) The completed vehicle **shall** meet the requirements of ULC-S515, effective at the time of manufacture.

3.3.2 Noise Level - The vehicle noise level **shall** meet the requirements of legislation relative to Occupational Safety and Health, both in the cab and the vehicle exterior.

3.3.3 Human Factors Engineering - The Apparatus will be operated by the DND Fire Service, which fall within the range of dimensional characteristics as collected in Defence and Civil Institute of Environmental Medicine (DCIEM) Report 98-CR-15, for CF personnel, for CF Fire Fighters wearing the CF Fire Fighter Personal Protective Ensemble (PPE) Turnout gear (Scale D01402CFS Protective Clothing - Fire Fighters dated 5 Mar 12). Systems and components of the Apparatus **shall**:

- (a) Be designed for safety and ease to use by CAF users with anthropometric characteristic measurements ranging from 95th percentile male to 5th percentile female;
- (b) Have entry and exit points equipped with handles and steps sized and positioned to accommodate CAF users with anthropometric characteristic measurements ranging from 95th percentile male to 5th percentile female; and
- (c) Be equipped, with warning and instruction plates, non-slip walking surfaces and heat shields, for operator safety.

3.4 Vehicle Performance

- (a) The vehicle, equipped as specified, **shall** have a minimum top speed, of 80 km/hr (50 mph).
- (b) The vehicle, equipped as specified, **shall** have a minimum vehicle gradeability of 31.6% at 3.2 km/hr (2 mph).

3.5 Ratings and Dimensions - The vehicle **shall** be sized to exceed the loads imposed by the required equipment when fully loaded.

- (a) **Gross Vehicle Weight Rating (GVWR)** - The Gross Vehicle Weight (GVW), while laden with the maximum payload, **shall** not exceed the vehicle's Gross Vehicle Weight Rating (GVWR).
- (b) **Gross Axle Weight Rating (GAWR)** - The Gross Axle Weights (GAWs), while laden with the maximum payload, **shall** not exceed the respective Gross Axle Weight Ratings (GAWRs).
- (c) **Centre of Gravity** - The centre of gravity of the complete tank, substructure, and mounted equipment under all loading conditions (full to empty) **shall** be in front of the rear axle and **shall** be within the

chassis manufacturer's allowable conditions.

- (d) **Clearances** - In areas other than at the axles, the ground clearance **shall** be at least 380 mm (15") and should be as high as practically possible.

3.6 Chassis Engine - The engine provided **shall:**

- (a) Be **diesel** powered;
- (b) Be **turbocharged**;
- (c) Have sufficient power to meet the specified performance requirements;
- (d) Be equipped with the manufacturer's recommended safety or emergency de-rate or shut-down system, with controls in the cab;
- (e) Be equipped with an automatic or manually activated fast idle system to raise engine speed when required for operations: and
 - i. The system **shall** have interlocks to prevent engine starting or shut down, gear shifting, or travelling with fast idle engaged.
 - ii. The system **shall** not interfere with the operation of the emergency engine shut-down system.
- (f) Be equipped with an engine governor or electronic fuel control system limiting the maximum speed of the vehicle.

3.6.1 Engine Components - The engine **shall include:**

- (a) A replaceable **air filter**;
- (b) A **cooling system**, to maintain an engine temperature at or below the OEM's maximum temperature rating under all conditions for which the apparatus is designed; and
- (c) An internal **engine compression brake** system.

3.6.2 Fuel Fired Preheat System - The vehicle **shall be equipped with a Fuel Fired Preheat System, which preheats the vehicle by heating the engine coolant. The system **shall**:**

- (a) Consist of all **components** required for the preheating of engine coolant, and all fittings, hoses and controls required for the efficient operation of the system;
- (b) **Operate independently** or while the engine is operating, drawing fuel from the engine fuel tank;
- (c) Operate on all **diesel formulations** suitable for the installed engine; and
- (d) Operate without a requirement for **power** from outside of the vehicle.

3.6.3 **Cold Weather Starting Aids** - The vehicle **shall** be equipped with:

- (a) A **block heater**;
- (b) A **fuel filter/water separator** incorporating a thermostatically controlled heater; and
- (c) A self-regulating **in-line fuel heater** to warm the fuel before it enters the fuel filter(s) and to maintain the fuel temperatures above the waxing/gelling point during cold weather operation.

Note: The following fuel heater is provided as guidance - Fuel Pro.

3.6.4 **Exhaust System**

- (a) The vehicle **shall** be equipped with an exhaust system suitably located and/or shielded so that personnel will not contact a heated surface.
- (b) The exhaust system **shall** be equipped with weather guards or an effective device to prevent entry of rain into intake and exhaust stacks, if applicable.
- (c) If a diesel particulate filter is used, a manual or parked regeneration feature **shall** be provided.

3.7 **Brakes** - The braking system **shall**:

- (a) Be a full **air actuated service brake** system and **spring actuated parking brake** system that complies with Canadian Motor Vehicle Safety Standard (CMVSS);
- (b) Include at least a 4-channel **anti-lock (ABS) brake** system;
- (c) Be S-cam type air brakes with **automatic slack adjusters** on all wheels;
- (d) Include a **wet tank reservoir** that can be recharged using a quick disconnect fitting for charging air system;
- (e) Include an **automatic air dryer**;
- (f) Be equipped with heated **expello valve** on the wet tanks and manual pull type on the dry tanks. The air tank **shall**^(E) be equipped with pull type drain connected with cable and could be reached from outside of the vehicle;
- (g) Include brake housing **dust shields** and visual **brake stroke indicators** on all wheels; and
- (h) Include **emergency brake chambers** on any rear axle(s).

3.8 **Suspension**

- (a) The front axle **shall**^(E) be equipped with a **spring suspension**.
- (b) The vehicle **shall**^(E) be equipped with **rear rubber block suspension**.
- (c) The rear axle **shall**^(E) be equipped with a **stabilizer bar**.

- (d) All axles **shall**^(B) be equipped with **shock absorbers**.

3.9 Wheels and Tires

- (a) The vehicle **shall** be equipped with steel-belted, tubeless radial tires.
- (b) The tires **shall** be mounted on steel or aluminum hub pilot disc wheels that are balanced to preclude wheel shimmy at all vehicle speeds.
- (c) All tires **shall** be mud and snow type.
- (d) The vehicle **shall** be delivered with one spare tire/wheel assembly, for each size/type of tire/wheel assembly supplied on the vehicle.

3.10 Axles

- (a) The vehicle **shall** be 6-wheel drive (6x6), equipped with a front driving axle and tandem rear drive axles.
- (b) The vehicle **shall**^(B) be equipped with driver controlled differential locks on rear axles.

3.11 Frame - The vehicle frame rails **shall** be constructed of at least 120,000 psi high strength steel.

3.12 Steering - The vehicle **shall** be equipped with a power assisted steering system with a telescopic/tilt steering column.

3.13 Automatic Transmission - The vehicle **shall** be equipped with a heavy duty automatic transmission.

3.13.1 Power Take-Off (PTO)

- (a) The PTO **shall**^(B) be transmission mounted.
- (b) The PTO **shall** have a torque rating that will allow the water pump to meet the rated performance.
- (c) The gearbox **shall** be of sufficient size to withstand the engine torque for the range of pump operating conditions and be selected to give the maximum performance with the engine, transmission, and PTO.

3.14 Fuel Tank

- (a) The vehicle fuel supply system **shall** include a fuel tank mounted on heavy-duty support brackets.
- (b) The fuel tank **shall** be the manufacturer's standard capacity, compatible with this size and type of vehicle, in accordance with ULC-S515 Chapter 11.
- (c) The fuel tank **shall** not interfere with the operation of any equipment installed on the vehicle or disturb the balance of the weight configuration.

3.15 Alternator - The alternator **shall** supply sufficient current to carry all electrical load requirements and voltage output compatible with the specific battery type, in accordance with the manufacturer's specifications.

3.16 Batteries

- (a) The vehicle **shall** be supplied with maintenance free batteries which **shall** have a rating exceeding the draw.
- (b) Batteries **shall** be mounted in an accessible, well protected location, including heat shielding, hold downs, and ventilation.

3.17 Hydraulic System - If applicable, the hydraulic system **shall** be complete with all required components for the operation of the installed hydraulic equipment and including pump, motors, actuator, cylinders, reservoir, filters and control valves. The reservoir, if applicable, **shall** be labeled with approved hydraulic fluid and reservoir capacity.

3.18 Electrical System - The vehicle **shall** be equipped with LED lights (except where indicated). The electrical system **shall** include:

- (a) **Halogen headlights;**
- (b) Clearance lights, stop lights, turn signals and tail lights that comply with the Highway Traffic Regulations;
- (c) All circuits protected from overload;
- (d) Insulating grommets where wiring passes through metal;
- (e) **Optical Warning Devices**, designed and controlled in accordance with ULC-S515 Chapter 12;
- (f) **Audible Warning Devices**, designed and controlled in accordance with ULC-S515 Chapter 12;
- (g) **Ground Lighting;**
 - i. The apparatus **shall** be equipped with ground lighting providing illumination, in all areas designed for personnel to climb and descend the apparatus.
 - ii. Ground lighting at entry door positions **shall** be automatically illuminated when the entry doors open.
 - iii. All other lighting **shall** be switch controlled.
- (h) **Hand Held Spotlight;**
 - i. One minimum 300,000-candle power hand held spotlight, with a momentary type control switch, coiled cord, and bracket, **shall**^(B) be provided.
 - ii. The spot light **shall**^(B) be securely stored within reach of the seated passenger in the cab, and hard wired into the 12-volt electrical system.
- (i) A **wigwag system**, with in cab controls;

(j) **Roof Mounted Light Bar; and**

- i. The apparatus **shall** be equipped with a roof mounted LED light bar.
- ii. The light bar provided **shall** have a nominal dimension of 1.32 metres (52 inches) wide.
- iii. The light bar **shall** be provided with traffic clearing lights interfaced with the park brake.
- iv. Traffic clearing lights **shall** automatically come on when the emergency light switch is activated and the park brake is released.

(k) A multi-position control for the emergency lighting system.

- i. One switch position **shall** be provided for each of the following functions:
 - 1. Turn off all emergency lighting;
 - 2. Turn on all emergency lighting; and
 - 3. Turn off all lighting positioned below the roof line.
- ii. The emergency light switch **shall** be located in a position that is accessible to the driver's seated position.

3.19 Cab - The vehicle cab **shall** be in accordance with ULC-S515 Chapter 13. The vehicle **shall** be equipped with:

- (a) A **conventional day cab**, with heavy duty suspension;
- (b) **Driver and passenger seats**. Both seats **shall**:
 - i. Be high-back;
 - ii. Be air suspended seats;
 - iii. Have cloth inserts; and
 - iv. Be equipped with a retractable 3-point seat belt assembly.
- (c) Two aerodynamic, heavy-duty, heated, motorized, **rear view mirrors**.
 - i. Each mirror **shall**^(B) include a convex section.
 - ii. Mirror glass **shall** be replaceable;

Note: The following heavy-duty west coast mirrors dimensions are provided as guidance: 15 cm by 40 cm (6 inches by 16 inches). The following convex mirrors dimensions are provided as guidance: 20 cm (8 inches) diameter.

- (d) Two rotating and pivoting interior **sun visors**;
- (e) **Dark Upholstery**;
- (f) Removable waterproof **mats** for easy cleaning;
- (g) As a minimum, molded **Armrests** on both doors and one armrest per seat;

- (h) **Premium insulation** in the cab including the floor(s);
- (i) A factory installed, **air conditioning** system;
- (j) Manufacturer's standard interior **trim**;
- (k) An AM/FM **radio** with CD player;
- (l) **Air horn(s)**. If air horns are mounted on the roof, then snow shields **shall** be provided;
- (m) **Tinted windshield** to reduce solar heating effects;
- (n) Mobile radio power leads and antennae cable wired into the vehicle. The power and antennae leads **shall**^(E) be provide with a service loop terminating at the overhead console for future installation of radio equipment; and
- (o) An antennae base mounted high on the cab exterior.

3.20 Cab Controls and Instruments - The cab controls and instruments **shall** include:

- (a) Electric **windshield washer sprayer**;
- (b) Intermittent **windshield wipers**;
- (c) **Cruise control** system with a fast idle feature;
- (d) **Speedometer**;
- (e) **Tachometer**;
- (f) **Odometer**;
- (g) **Oil pressure gauge** with a low engine oil pressure indicator;
- (h) **Coolant temperature gauge** with a high coolant temperature indicator;
- (i) **Transmission temperature gauge** with a high transmission temperature indicator;
- (j) **Voltmeter**;
- (k) **Air pressure** gauge(s);
- (l) Reverse (back-up) warning alarm;
- (m) **Fuel level gauge**;
- (n) A **PTO engagement indicator**;
- (o) An engine **hour meter** with numeric display, which accurately records accumulated engine running time;
- (p) A **master battery switch**, accessible in the cab within reach of the driver; and

- (q) An **air restriction indicator**.

3.21 Miscellaneous Equipment - The vehicle **shall** be equipped with:

- (a) **License plate mounting** provisions, front and rear. The Rear licence plate **shall** be illuminated;
- (b) Front and rear **mud flaps**. Front mud flaps **shall** be sufficiently sized and positioned to prevent body damage from wheel splash and stone throw; and
- (c) **Tow hooks** mounted at the front and at the rear, of sufficient strength to permit the recovery of the vehicle.

3.22 Paint, Decal, and Corrosion Protection

3.22.1 Paint

- (a) All paint **shall** be applied to the Apparatus in accordance with the **paint manufacturer's recommendations** and the manufacturer's best production procedures, rendering a durable finish and a smooth appearance, free from runs, sags and orange peel.
- (b) The surface **shall** include a corrosion-prevention pre-treatment to all bare metal, a sealer/primer, a minimum of two coats of base colour paint, and two coats of clear finish.
- (c) All painted components of the Apparatus **shall** be painted prior to assembly to ensure full coverage of metal treatments and paint.
- (d) If aluminum is penetrated after painting, for mounting purposes, the point of penetration and all mounting hardware **shall** be treated with a corrosion inhibiting pre-treatment.
- (e) The paint process **shall**^(E) utilize Akzo-Nobel's high-solid LV products, including:
 - i. Akzo-Nobel Sealer/Primer LV - Acrylic urethane sealer/primer;
 - ii. Akzo-Nobel High Solid LV topcoat - Lead free, chromate-free, high-solid acrylic urethane topcoat; and
 - iii. Akzo-Nobel High Solid LV clear coat.
- (f) The Apparatus **shall**^(E) be painted two-tone, consisting of a FLNA 4006 White over FLNA 3225 Red Akzo-Nobel Lead free, chromate-free, high-solid acrylic urethane Paint applied to the upper section of the cab, with the paint break line determined at the preproduction meeting.
- (g) The chassis components **shall** be finish painted black.

3.22.2 Decal Package - The Apparatus **shall** be provided with a decaling package.

- (a) The two-tone paint break **shall** be covered by a ¾" Stripe (½" gold stripe, with ⅛" black outline), with a clear polyurethane coating.
- (b) The cab and body **shall**^(E) be provided with a double white Scotchlite reflective stripe, a nominal 152 mm (6 inches) and 51 mm (2 inches)

wide, horizontally around the cab and body, in accordance with ASTM D 4956 and in compliance with NFPA 1901.

- (c) All lettering **shall** be applied in the ARIAL BLOCK font, in sizes ranging from 51 mm (2 inches) to 152 mm (6 inches) to accommodate the required text, in the outlined areas.
- (d) All lettering **shall** be gold with a black outline.
- (e) Decals **shall** be in both official languages on the same side of the vehicle.
- (f) Decals **shall** be applied using high quality vinyl with a clear polyurethane coating.
- (g) The following decals **shall** be provided in the following locations:
 - i. **"FIRE · FEU"**, 75mm (3 inches) in height, on the front of the vehicle, horizontally centred over the grill, and vertically centred between the chassis stripe and grill;
 - ii. **Front identification number**, 102 mm (4 inches) in height, applied on a white background to the left furthestmost location of the vehicle's front bumper;
 - iii. **Base identifier**, 51 mm (2 inches) to 152 mm (6 inches) in height sized to fit, applied to the topsides of the cab;
 - iv. **Crest or door logos**, horizontally and vertically centred on both the driver and passenger doors;
 - v. **National Defence logo**, sized and centred to fit the available space on the sides of the body, forward near the roofline;
 - vi. **Side identification number**, sized and centred to fit the available space on the sides of the body, rearward near the roofline; and
 - vii. **Rear identification number**, 102 mm (4 inches) in height, applied on a white background to the lower right furthestmost location on the vehicle's rear.

3.22.3 Corrosion Protection

- (a) **Corrosion Protection Design** - The vehicle **shall** be designed to prevent galvanic corrosion.
- (b) **Rust Proofing** - Aftermarket rust proofing **shall** be applied to the vehicle in addition to standard factory rust proofing.
- (c) **Rust Preventative** - All metal surfaces on the vehicle **shall** be treated with a rust preventative oily film product having the following properties:
 - i. Moisture displacing;
 - ii. Creeping (capillary action);
 - iii. Low solvent content;

- iv. Compatible with rubbers, plastics and, all other materials used in automotive construction;
 - v. Non-toxic; and
 - vi. Minimal dripping.
- (d) **Salt Spray Endurance Test** - Written proof of a twelve hour ASTM B117 salt spray endurance test certification by an independent test laboratory **shall** be provided, before vehicle acceptance. Krown Rust Kontrol and Rust Check products have been previously certified, proof is not required.
 - (e) **Application Areas** - Corrosion protection application **shall** include, but is not limited to the underside of fenders and hood, enclosed and boxed-in sections, seams, mouldings, crevices, weld points, underbody and exposed exterior brackets.
 - (f) **Warranty Documentation** - A decal and warranty papers **shall** accompany each vehicle.

3.23 Lubricants, Hydraulic Fluids and Fittings

- (a) Axles, transmission and differentials **shall** be furnished with synthetic lubricant.
- (b) The synthetic lubricant **shall** be approved by components manufacturer and furnished by the OEM.
- (c) The vehicle **shall** operate satisfactorily on Canadian Forces Supply Line lubricants including synthetic lubricants. This includes 15W40 and SAE 75W90. Vehicle hydraulic systems **shall** operate using DEXRON III.

3.24 Identification - The following information **shall** be permanently affixed in a conspicuous and protected location:

- (a) The manufacturer's name, model number, serial number and model year;
- (b) The GVWR, GCWR and GAWR ratings, in kilograms (as applicable); and
- (c) The height and length, in metres.

3.25 Warning and Instruction Plates

- (a) The vehicle **shall**^(E) be equipped with warning and equipment operation instruction plates that are in accordance SAE J115.
- (b) The plates **shall** be within easy view of the operator, be bilingual (English and French) and/or make use of graphic symbols as defined in SAE J1362.

4. EQUIPMENT

4.1 Special Equipment Design Considerations

- (a) **Ground Clearance** - When selecting equipment installation locations, the Contractor **shall** maintain the highest ground clearance possible, and

should not install equipment lower than the lowest point on the chassis frame rails.

- (b) **Centre of Gravity** - The height of the fully loaded vehicle's centre of gravity **shall** not exceed the Chassis manufacturer's maximum limit, in accordance with ULC-S515 Chapter 3.

4.2 Pump

- (a) The mobile water supply apparatus **shall** be equipped with a pump securely mounted to the vehicle, at or above the chassis frame rails.
- (b) The pump **shall** meet the requirements of **ULC-S515 Chapter 15**.
- (c) The water pump **shall** have a minimum **capacity** of 1,800 litres per minute (500 US Gallons per minute).
- (d) The pump **shall** be PTO (Power Take-Off) driven from the vehicle engine.
- (e) The pump body **shall** be hydrostatically tested to 3400 kPa (495 psi).
- (f) The pump **shall**^(E) be equipped with a plate identifying the pump model and serial number.

4.2.1 Priming Pump

- (a) A positive displacement, oil-less, rotary vane, electric motor driven priming pump **shall**^(E) be provided.
- (b) The priming pump **shall**^(E) be operated by a single push-pull bronze control mounted on the pump operator panel.

4.2.2 Pump Operator's Panel - The Apparatus **shall** be equipped with a Pump Operator's Panel, which is compliant with ULC-S515.

4.2.3 Drains - The system **shall** be equipped with drain valves, designed to allow the complete draining of the pump and all water carrying lines and accessories, routed to a trough which drains to the side, away from the Pump Operator's Position.

4.3 Water Tank - The mobile water supply apparatus **shall** be equipped with a water tank compliant with the requirements of **ULC-S515 Chapter 16**.

4.3.1 Capacity

- (a) The water tank **shall** have a minimum certified capacity of 13,638 litres (3000 Imp gallon).
- (b) The certified capacity **shall** be recorded on the manufacturer's record of construction and delivered with the fire apparatus.

4.3.2 Tank Construction

- (a) The water tank **shall**^(E) be constructed of Polyprene® copolymer, treated to prevent degradation from exposure to sunlight (heat and UV), and flexible enough to resist cracking and fatigue due to movement.
- (b) Material **shall** be of sufficient thickness to provide complete

structural integrity of the tank for the expected life of the vehicle, for the required use.

4.3.3 **Mounting** - The tank to vehicle mounting method **shall** be designed and constructed to:

- (a) Prevent tank shifting;
- (b) Retain the tank while travelling empty;
- (c) Withstand the maximum gross loading under specified operating conditions; and
- (d) Allow for the independent differences in vehicle and tank flexion (Cradled, cushioned, spring-mounted, etc.).

4.3.4 **Stability** - The water tank **shall** be equipped with baffles, swash partitions, or a method for dynamic water movement control, to stabilize partial loads of water.

4.3.5 **Sump(s)** - The water tank **shall** be equipped with at least one cleanout sump at the lowest point of the tank designed to allow water to fully drain from the tank.

- (a) The sump(s) **shall** be equipped with an easily accessible minimum 75mm (3') pipe plug, which is protected from projectile road debris.
- (b) If the sump is used for tank-to-pump line connection, the design **shall** prevent sludge or debris in the sump from entering the pump.

4.3.6 **Tank-to-Pump Intake** - The water tank **shall** be connected to the intake side of the pump with a valve controlled at the pump operator's panel.

4.3.7 **Tank-to-Pump Flow** - The water tank **shall** be equipped with a piping and valve arrangement delivering water to the pump at a minimum rate of 2000L/min (500gpm).

- (a) The flow rate **shall** be sustainable while pumping a minimum of 80 % of the certified tank capacity with the apparatus on level ground.
- (b) The tank-to-Pump line **shall** be equipped with an automatic means to prevent unintentional backfilling of the water tank through the line.
- (c) Connections or outlets from the tank to the pump **shall** be designed to prevent air from being entrained while pumping water from the tank.

4.3.8 **Fill Opening** - The water tank **shall** be equipped with a readily accessible, covered fill opening, allowing insertion of a minimum 65mm (2.5") hose with coupling.

- (a) The cover **shall** be marked with a label that reads "water fill".
- (b) A screen that is easily removed and cleaned **shall** be installed in the opening.
- (c) The fill opening cover or another device **shall** open as a vent to release pressure build-up in the tank.

4.3.9 Vent/Overflow Outlet

- (a) The water tank **shall** be equipped with a vent/overflow outlet that is sized to allow water to be drawn from the tank at a rate at least equal to the 2000L/min (500gpm) and pumped into the tank without pressure build-up under the required operation.
- (b) The overflow outlet **shall** be behind the rear wheels, so as not to reduce vehicle traction.

4.4 Plumbing - Plumbing **shall**^(B) be stainless steel, to prevent corrosion.

4.4.1 Tank Filling

- (a) The apparatus **shall** be equipped with a valved tank fill lines to allow water from external sources to be pumped into the water tank.
- (b) The tank fill line valve **shall** regulate flow, controlled from the pump operator's position.
- (c) The tank filling system **shall** include at least:
 - i. One (1) Top fill (**external fill**) directly into the tank, which permits a minimum filling rate of 4000L/min (1000 gpm);
 - ii. One (1) nominal 102 mm (4 inch) or 152 mm (6 inch) hard **suction inlet**, compatible with the pump rating, on the road side, equipped with long handle chrome vented caps and an intake screen;
 - iii. One (1) nominal 65 mm (2.5 inch) or 75 mm (3 inch) hard **suction inlet**, with camlocks or threaded hose;
 - iii. One (1) nominal 102 mm (4 inch) **tank fill inlet**, for pressure filling from hydrants, with Storz coupling; and
 - iv. One (1) nominal 65 mm (2.5 inch) **tank fill inlet**, for pressure filling from hydrants, with Storz coupling.

4.4.2 Water dispensing

- (a) Plumbing **shall** be installed to allow for the water from the tank to be dispensed through the installed pumping system.
- (b) At a minimum, water **shall** be dispensed through:
 - i. Two (2) nominal 65 mm (2.5 inch) outlets;
 - ii. One (1) nominal 254 mm (10 inch) **dump valve**, equipped with a swing capacity for operation at the rear to the right, center, and left, with a minimum capacity of 4000L/min.

4.5 Body - The body **shall**^(B) be fabricated with nominal 3/16 inch 5052 or 5083 marine grade aluminium, for corrosion prevention, durability, strength, and integrity of the body construction.

4.6 Equipment Storage - The apparatus body **shall** be equipped with enclosed weather resistant storage compartments, with a minimum volume of 0.6 m³ (21 ft³) for Equipment storage in accordance with **ULC-S515 Chapter 9**.

- (a) The compartments **shall** be ventilated and have provisions for drainage of moisture.
- (b) All electrical junctions or wiring within the compartments **shall** be protected from mechanical damage resulting from equipment stored within the compartment.
- (c) Compartments **shall** be equipped with accessible equipment holders for all of the Minor Equipment required in this Purchase Description, designed to secure the equipment under all vehicle operating conditions.
- (d) Storage compartments **shall**^(E) be equipped with turtle track matting.

4.7 Minor Equipment

- (a) The mobile water supply apparatus **shall** be equipped with Minor Equipment in accordance with ULC-S515.
- (b) Above the applicable standard, the following Minor Equipment **shall** be provided:
 - i. Four (4) **1500 gallon portable ponds** with folding metal frame; and
 - ii. One nominal 75 mm (3 inch) **camlock to Storz adapter**.
- (c) All Minor Equipment **shall** be stored on-board in dedicated accessible storage locations, secured in brackets where applicable.

4.8 Hose Storage - The apparatus body **shall** be equipped with on-board storage provisions for all hoses required in this Purchase Description. All hose storage areas **shall**^(E):

- (a) Be reinforced at the corners;
- (b) Have a bottom made of removable sections fabricated from non-corrosive materials;
- (c) Have a bottom constructed to prevent the accumulation of water and allow ventilation to aid in drying hose;
- (d) Have an interior which is smooth and free from all projections that might cause damage to the hose (i.e. nuts, sharp angles, or brackets);
- (e) Allow laying and removal of hose from the storage area without obstruction from reels, handrails, ladders, or equipment holders; and
- (f) Be equipped with a positive means to prevent unintentional deployment of the hose from the top, sides, front, and rear of the hose storage area while the apparatus is underway in normal operations.

4.9 Hoses - All hoses, other than hard suction, **shall** be Red Chief hoses with Storz couplings. The apparatus **shall** be provided with the following, mounted in dedicated storage locations:

- (a) One (1) **pony length hose**, with a nominal length of 3 metres (10 feet) and a nominal diameter of 102 mm (4 inch);
- (b) Two (2) sections of clear lightweight **hard suction hose** with a nominal length of 3 metres (10 feet) each, with strainer, and a nominal diameter of 102 mm (4 inch) or 152 mm (6 inch), compatible with the apparatus hard suction inlet;
- (c) Four (4) sections of clear lightweight **hard suction hose** with a nominal length of 3 metres (10 feet) each, with strainer, and a nominal diameter of 65 mm (2½ inch) or 75 mm (3 inch), compatible with the apparatus hard suction inlet;
- (d) Two (2) **intake hoses** with a nominal length of 7.5 metres (25 feet) and a nominal diameter of 102 mm (4 inch); and
- (e) Four (4) **supply hoses** with a nominal length of 15 metres (50 feet) and a nominal diameter of 65 mm (2½ inch).

5. INTEGRATED LOGISTIC SUPPORT (ILS)

5.1 Vehicle Manuals - All manuals required for the description, operation, maintenance and repair of the complete vehicle/apparatus, including sub-systems, **shall** be provided.

- (a) **Operator's Manuals** - Operator's Manuals **shall** be bilingual (English/French). The Operator's Manual **shall** include:
 - i. Instructions for the safe operation of the vehicle;
 - ii. Daily operator maintenance instructions/checks (including lubrication);
 - iii. Safety warnings; and
 - iv. Hand signals (as necessary).
- (b) **Parts Manuals** - The Parts Manuals **shall** be in English (bilingual is desirable). The Parts Manuals **shall** include:
 - i. Illustrations showing all components of the vehicle including equipment and accessories from other manufacturers that are supplied for the requirements of the contract, with numbers for the itemization of the parts;
 - ii. A listing for all itemized parts showing the Original Equipment Manufacturers (OEM) part number, the part name, and a brief description of the item;
 - iii. Cross reference relating the OEM part number to the correct illustration and item number; and
 - iv. A representation of bilingual warning signs and identification labels delivered on the equipment.
- (c) **Maintenance (Service) Manuals** - The Maintenance Manual **shall** be in

English (bilingual is desirable). The Maintenance Manuals **shall** include:

- i. A trouble shooting 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;
- ii. A listing of the necessary tolerances, torque levels, and fluid volumes required, and a section listing special tools (including item part numbers);
- iii. Information on the order of disassembly and assembly of the systems and components of the vehicle; and
- iv. Plumbing and wiring diagrams.

5.1.2 Manual Delivery

- (a) **Sample Manuals** - The Contractor **shall** submit sample manuals to the Technical Authority (TA) for each equipment model and/or sub-system for approval as specified above. Sample manuals will not be returned. The Crown will provide approval or comments on the manuals within 30 days. Sample manuals should be submitted with enough time for review prior to vehicle delivery.
- (b) **Approved Manuals (to TA)** - One (1) complete set of manuals (Operator's, Maintenance, and Parts) in electronic format **shall** be delivered to the Technical Authority.
- (c) **Approved Manuals (At Destination)** - Two (2) complete sets of manuals (Operator's, Maintenance, and Parts), in paper and electronic format, **shall** accompany the first vehicle shipped to each location.
- (d) **Approved Operator's Manual (With Vehicle)** - One (1) Operator's manual (paper format) **shall** be provided with every vehicle.

5.1.3 Electronic Format

- (a) Approved copies of the electronic format manuals **shall** be delivered on CD/DVD-ROM.
- (b) CD/DVD-ROM **shall** be an unlocked PDF in a searchable format and **not** require installation, password and/or Internet connection to be accessed.

5.1.4 Provisional Manuals

- (a) In the event that approved manuals are not available at the time of delivery of the equipment, manuals marked "Provisional" **shall** be supplied with the equipment.
- (b) Upon TA approval, the Contractor **shall** deliver replacement manuals to all destinations where provisional manuals were delivered.

5.1.5 Manual Supplements

- (a) The Contractor **shall** supply manual supplements (Operator's, Maintenance

and Parts) to support dealer-installed equipment not covered in approved manuals, if applicable.

- (b) These supplements **shall** require separate DND approval.
- (c) These supplements **shall** be provided to each destination in the same quantities and format as the approved manuals.

5.1.6 Translation and Reproduction Rights - The Canadian Government **shall** reserve the right to translate and reproduce, for Government use only, all or any part of the publications supplied, including the training packages delivered against the contract agreement.

5.1.7 Manual Changes

- (a) Until the last vehicle is delivered with approved manuals, changes to equipment, which affect the contents of manuals, **shall** be reflected in a revision of the electronic and paper version of the manuals.
- (b) Changes to the manuals **shall** conform to the same format and presentation requirements as the original approved manuals.
- (c) The revised electronic version of the manual **shall** be sent to the Technical Authority by the Contractor.

5.2 Data Summary

- (a) The Contractor **shall** provide a bilingual Data Summary for each make/model/configuration of vehicle, by completing the Technical Authority's template with data and a vehicle picture.
- (b) The Contractor **shall** provide a Data Summary, if possible, before the shipment of the vehicle(s).

5.3 Warranty Letter

- (a) The Contractor **shall** provide a bilingual Warranty Letter to the Technical Authority and with each vehicle delivered in the approved DND format.
- (b) The TA will provide the Contractor with a template for the DND acceptable format of the warranty letter.
- (c) The Warranty Letter **shall** include the following details:
 - i. A contact person and phone number, for each Canadian designated warranty service provider that will honour the warranty for the equipment and attachments (if applicable) procured under this contract;
 - ii. Additional warranty coverage of sub-systems and a copy of the bilingual warranty letter from each sub-system's Original Equipment Manufacturer (OEM);
 - iii. The warranty period as negotiated in the contract; and

- iv. Contractor contact information, name, and phone number, for warranty support.

5.4 Photographs

- (a) The Contractor **shall** provide photographs to the TA, in electronic format, within 30 days of the first vehicle delivery. The photographs should be in color, taken against a plain background, and in digital JPEG format with a minimum 10 megapixel resolution.
- (b) At a minimum, the photographs **shall** be:
 - i. One left front three-quarter view of a complete vehicle; and
 - ii. One right rear three-quarter view of a complete vehicle.

5.5 Dimensioned Drawing - One side and front view sketch showing the dimensions **shall** be provided. Brochure sketches are acceptable.

5.6 Line Setting Ticket

- (a) The Contractor **shall**^(E) provide a Line Setting Ticket describing the components provided on the cab and chassis.
- (b) One copy of the Line Setting Ticket **shall** accompany each completed vehicle to the final delivery point.
- (c) The Contractor **shall** produce a Supplement listing for all non-production line components and systems included in the Contract.
 - i. The Supplement **shall** indicate the name of the component or system and the installation company (name and address).
- (d) One copy of the Line Setting Ticket and one copy of the Supplement **shall** be forwarded to the Technical Authority as soon as they are available.

5.7 Special Tools List

- (a) The Contractor **shall** provide an itemized list of specific special tools required for the servicing and repair of the apparatus.
- (b) The list **shall** include the following information:
 - i. Item name;
 - ii. Manufacturer's part number (OEM);
 - iii. Quantity recommended per delivery location;
 - iv. Contractor's part number;
 - v. Unit price; and
 - vi. Unit of issue.
- (c) The special tools **shall** also be listed in the Maintenance Manual.

5.8 Recommended Spare Parts List - The Contractor **shall** provide, to the Technical Authority, a list detailing the spare parts deemed necessary to maintain the vehicle for a period of 12 months exclusive of any warranty period, for each configuration. The Recommended Spare Part List **shall**:

- i. Include the following information:
 1. Item name;
 2. Contractor's part number;
 3. Original manufacturer's number;
 4. Original manufacturer's NATO Supply code (NCAGE) or name and address;
 5. NSN (NATO Stock Number) (if known);
 6. Quantity per equipment;
 7. Quantity recommended;
 8. Unit price;
 9. Unit of issue; and
 10. Reference to part location in the parts manual.
- ii. Be delivered to the Technical Authority. The list **shall** be supplied in an editable electronic format, preferably as a spreadsheet.

5.9 Safety Recalls and Servicing Data - Safety recalls, and manufacturer's technical service bulletins, or equivalent **shall** be provided to the Technical Authority and the final delivery locations on a continuing basis, throughout the life expectancy of the vehicle or for not less than 10 years.

5.10 Familiarization Training

5.10.1 Operator Familiarization Training

- (a) The Contractor **shall** deliver an operator familiarization training course covering, as a minimum, the apparatus servicing procedures, and how to operate the features of the apparatus safely and efficiently.
- (b) The operator training course **shall**:
 - i. Be designed for attendance of up to twelve (12) operators;
 - ii. Be one (1) day in duration;
 - iii. Be delivered **twice**, at each delivery location; and
 - iv. Be delivered in the official language of the province of delivery.

- (c) Training dates **shall** be coordinated with the TA.
- (d) The contractor **shall** provide a copy of the training package to the TA for review and approval, at least 7 days in advance of the scheduled training.
- (e) The Contractor **shall** deliver the "PROOF OF OPERATOR TRAINING" certificate for signature by a Crown Representative from the location where the training is taking place and return the signed document to the TA. The Technical Authority will supply a template of the document in electronic format to the Contractor.

5.10.2 Maintenance Familiarization Training

- (a) The Contractor **shall** deliver a maintenance training course covering, as a minimum, the safety precautions, trouble shooting, test and adjustment, special tools and test equipment, minimum operation and features of the vehicle and the safe and efficient maintenance of the vehicle.
- (b) The maintenance training course **shall**:
 - i. Be designed for attendance of up to eight (8) maintenance personnel;
 - ii. Be up to three (3) days in duration;
 - iii. Be delivered **once**, at each delivery location; and
 - iv. Be delivered in the official language of the province of delivery.
- (c) Training dates **shall** be coordinated with the TA.
- (d) The contractor **shall** provide a copy of the training package to the TA for review and approval, at least 7 days in advance of the scheduled training.
- (e) The Contractor **shall** deliver the "PROOF OF MAINTENANCE TRAINING" certificate for signature by a Crown Representative from the location where the training is taking place and return the signed document to the TA. The Technical Authority will supply a template of the document in electronic format to the Contractor.

5.10.3 Instructor Experience - All training **shall** be delivered by an instructor who is fully trained and functional on all aspects of the Apparatus, with at least three (3) years of experience within the past five (5) years on the specific apparatus or an apparatus of similar design.

5.10.4 Operation Video - The Contractor **shall** delivery an English video demonstrating an overview of the operation of all aspects of the apparatus, to the TA, within 30 days of the first vehicle delivery.

6. QUALITY ASSURANCE PROVISIONS

6.1 Performance and Verification Testing

- (a) The first vehicle of each Configuration to be delivered **shall** be examined and performance tested by the Contractor, under real or equivalent load and operating conditions, to ensure item by item conformance to specified requirements. The QAR and/or the Technical Authority may witness this testing to assess the handling characteristics.
- (b) The Contractor **shall** have a fully equipped vehicle weighed on certified scales. The total weight and weight on each axle **shall** be furnished.
- (c) The remaining vehicles **shall** be tested by the Contractor with or without load to check general performance and operation.

6.2 Vehicle Delivery Condition

- (a) The vehicle **shall** be delivered to destination clean and in a fully operational condition (serviced and adjusted).
- (b) If the vehicle requires assembly at destination, the Contractor **shall** be responsible for all manpower and equipment to perform assembly. The consignee will provide the area required for assembly.
- (c) For shipment verification, all items which are shipped loose with each vehicle **shall** be listed on the shipping certificate or to an attached packing note.



APPENDIX 1
TRUCK, FIREFIGHTING,
MOBILE WATER SUPPLY FIRE APPARATUS
ECC 189200

TECHNICAL INFORMATION QUESTIONNAIRE

This questionnaire covers technical information, which will be used to evaluate the technical compliance of the configuration(s) of the vehicle(s) offered.

Where the specification paragraphs below indicate **Proof of Compliance**, a **Proof of Compliance** document demonstrating compliance with each corresponding performance requirement/specification **shall** be provided with the bid.

Bidders should indicate the requested information and indicate the document name/title and page number where the **Proof of Compliance** can be found.

Definitions for **Equivalent** and **Proof of Compliance** are found in the DEFINITIONS section at the end of this document.

CONTRACTOR INFORMATION

Contractor Name _____

Proposal Date _____

Substitutes/Alternatives

Are any equipment substitutes/alternatives offered as **Equivalent**? YES ☐ NO ☐

If yes, please identify all equipment substitutes/alternatives offered as **Equivalents**, below. Bidders should provide information to demonstrate how the offered substitute/alternative is **Equivalent**:

Proposed Mobile Water Supply: Make _____ - Model _____

Proposed Chassis: Make _____ - Model _____

PURCHASE DESCRIPTION PARAGRAPHS

3.1 (b) Industry Acceptability

Demonstrate industry acceptability by providing information to support the claim that the apparatus has been manufactured and sold commercially for at least 2 years, or provide information to support the claim that the manufacturer has at least 5 years of experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity.

Information can be found in:

Document(s): _____ on page(s): _____.

3.1 (e) Published Ratings - Proof of Compliance

The vehicle brochure showing the latest offered configurations can be found in:

Document(s): _____ on page(s): _____.

3.3.1 (b)/(c) National Safety Mark - Proof of Compliance

Provide the variant equipment integrator NSM certification number as proof of registration with Transport Canada as a final stage manufacturer. Models proposed by American Contractors should be included in the current edition of the Transport Canada "List of Vehicles Admissible from the United States".

The certification number can be found in:

Document(s): _____ on page(s): _____.

3.5 Ratings and Dimensions - Proof of Compliance

Gross Vehicle Weight _____ , GVWR _____.

Front axle weight _____ , GAWR (front) _____.

Rear axle(s) weight _____ , GAWR (rear) _____.

Vehicle and Axle ratings can be found in:

Document(s): _____ on page: _____.

3.10 Axles - Proof of compliance

The axle information can be found in:

Document(s): _____ on page: _____.

4.2(c) Pump - Proof of compliance

Make _____ - Model _____

Pump capacity information can be found in:

Document(s): _____ on page: _____.

4.3.1(a) Water Tank Capacity - Proof of compliance

Water Tank Capacity: _____

Water tank capacity information can be found in:

Document(s): _____ on page: _____.

4.3.2 Tank Construction - Proof of compliance

Tank construction information can be found in:

Document(s): _____ on page: _____.

4.4/4.6/4.8 - Plumbing/Equipment Storage/Hose Storage

The bidder ***shall*** provide a sketch identifying the locations of required tank fill inlets, water dispensing outlets, equipment storage compartments, and hose storage locations.

The sketch can be found in:

Document(s): _____ on page: _____.

DEFINITIONS

The following definitions apply to the interpretation of this Technical Information Questionnaire:

- a) "Equivalent" - A standard, means, or component type, which has been accepted by the Technical Authority as meeting the specified requirements for form, fit, function and performance.
- b) "Proof of Compliance" - An unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document **shall** provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior representative of the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications **shall** be provided. The certificate **shall** detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

ANNEX “C” to PART 5 – BID SOLICITATION**FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY -
CERTIFICATION**

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

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

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

Complete both A and B.

A. Check only one of the following:

- ☐ A1. The Bidder certifies having no work force in Canada.
- ☐ A2. The Bidder certifies being a public sector employer.
- ☐ A3. The Bidder certifies being a federally regulated employer being subject to the *Employment Equity Act*.
- ☐ A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

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

- ☐ A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC -Labour.

OR

- ☐ A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC -Labour. As this is a condition to contract award,

proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC C-Labour.

B. Check only one of the following:

☐ B1. The Bidder is not a Joint Venture.

OR

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