



National Defence
National Defence Headquarters
Ottawa, Ontario
K1A 0K2

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

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À :

Megan Buchanan, DLP 8-1-4
Megan.Buchanan@forces.gc.ca

Title/Titre Low Profile Type 2 Ambulance	Solicitation No – N° de l'invitation W6399-22LI06/A
Date of Solicitation – Date de l'invitation 04 January 2023	
Address Enquiries to – Adresser toutes questions à Megan.Buchanan@forces.gc.ca	
Telephone No. – N° de téléphone 613-945-2929	FAX No – N° de fax
Destination Specified herein	

Proposal To: National Defence 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 and services listed herein and on any attached sheets at the price(s) set out therefore.

Proposition à : Défense nationale Canada

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

Instructions:

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

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

**Solicitation Closes –
L'invitation prend fin**

At – à : 02:00 PM Eastern Standard Time (EST)

On - le : 10 February 2023

Delivery required - Livraison exigée	Delivery offered - Livraison proposée
Vendor Name and Address - Raison sociale et adresse du fournisseur	
Name and title of person authorized to sign on behalf of vendor (type or print) - Nom et titre de la personne autorisée à signer au nom du fournisseur (caractère d'imprimerie)	
Name/Nom _____	Title/Titre _____
Signature _____	Date _____

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement applicable to this Request for Proposal.

1.2 Statement of Work

The requirement is detailed in Annex A – Purchase Description for Low Profile Type 2 Ambulance.

1.3 Debriefings

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

1.4 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the Canada-Chile Free Trade Agreement (CCFTA), the Canadian Free Trade Agreement (CFTA), the Canada-Peru Free Trade Agreement (CPFTA), the Canada-Columbia Free Trade Agreement (CCoIFTA), the Canada-Panama Free Trade Agreement (CPanFTA), the Canada-Honduras Free Trade Agreement (CHFTA), the Canada-Korea Free Trade Agreement (CKFTA) and the Canada-European Union Comprehensive Economic and Trade Agreement (CETA).

PART 2 - BIDDER INSTRUCTIONS

2.1 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 Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-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](#) (2022-03-29) Standard Instructions – Goods and Services – Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modifications:

- a) Section 02, Procurement Business Number is deleted in its entirety.
- b) Section 20(2), Further Information is deleted in its entirety.
- c) Subsection 2.d. of Section 05, Submission of Bids, is deleted in its entirety and replaced with the following:

Send its bid only to the address specified in the bid solicitation.

- d) Section 06, Late Bids, Is deleted in its entirety;
- e) The text under Section 07, Delayed Bids, is deleted in its entirety and replaced with the following:

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

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services –Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

2.2 Electronic Submission of Bids

- a) Bids must be submitted only to the Department of National Defence by the date, time and place indicated on page 1 of the bid solicitation. Bids must be received electronically as noted in subparagraph b).
- b) **Electronic Submissions: Individual e-mails exceeding five (5) megabytes, or that includes other factors such as embedded macros and/or links, may be rejected by the DND e-mail system and/or firewall(s) without notice to the Bidder or Contracting Authority.** Larger bids may be submitted through more than one e-mail. The Contracting Authority will confirm receipt of documents. It is the Bidder's responsibility to ensure that the Contracting Authority has received the entire submission. Bidders should not assume that all documents have been received unless the Contracting Authority confirms receipt of each document. In order to minimize the potential for technical issues, Bidders are requested to allow sufficient time before the closing time and date to confirm receipt. Technical and financial documents received after the closing time and date will not be accepted.

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing 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 question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (One (1) electronic copy)

Section II: Financial Bid (One (1) electronic copy)

Section III: Certifications (One (1) electronic copy)

Section IV: Additional Information (One (1) electronic copy)

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

Bidders may use Annex B to indicate their prices. If Bidders choose to use Annex B to indicate their prices, Bidders must include Annex B in their financial bid.

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.

Section II: Financial Bid

Bidders must submit their financial bid as follows:

Bidders must submit firm prices, Delivered Duty Paid (DDP) at destination of the goods specified in Annex B Incoterms 2010, Applicable Taxes excluded. The total amount of Applicable Taxes must be shown separately.

Bids must be submitted in Canadian dollars.

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

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

Section IV: Additional Information

3.1.3 Warranty Period

3.1.3.1 Manufacturer's Standard Warranty Period

1. Canada requests that the Bidder provide details of the Manufacturer's Standard Warranty period for the equipment and components that exceeds the minimum warranty period of 12 months. Any additional manufacturer's standard warranty such as those derived from the Original Equipment Manufacturer (OEM) for components/subassemblies will form part of the proposed contract.

3.1.3.2 Extended Warranty Period

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Bidders must meet all mandatory technical evaluation criteria detailed in Annex C – Technical Information Questionnaire.

4.1.2 Financial Evaluation

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

4.2 Basis of Selection

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless otherwise specified, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed).

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 [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.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Statement of Work

The Contractor must perform the Work in accordance with the Purchase Description at Annex A.

6.3 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](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2022-12-01), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract, with the following modifications:

a. Definition of Minister is modified as follows:

"Canada", "Crown", "Her Majesty" or "the Government" means Her Majesty the Queen in right of Canada as represented by the Minister of National Defence and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of National Defence has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister.

6.3.2 Use and Translation of Written Material

Unless otherwise provided in the Contract, copyright in any written material used, produced or delivered under the Contract belongs to the author of the material or its rightful owner. Canada has the right to use, reproduce and disclose for government purposes any written material relating to the Work that is delivered to Canada.

If the Contract does not require the delivery of any written material in both of Canada's official languages, Canada may translate the written material into the other official language. The Contractor acknowledges that Canada is the owner of the translation and has no obligation to provide the translation to the Contractor. Canada agrees that any translation must include any copyright or proprietary right notice that was part of the original. Canada acknowledges that the Contractor is not responsible for any technical errors or other problems which may be caused by the translation.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before _____. *(To be completed by DND at contract award)*

6.4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to acquire the goods described at Annex A of the Contract under the same conditions and at the price stated in the Contract. 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 twenty-four (24) months after contract award by sending a written notification to the Contractor.

6.4.3 Shipping Instructions

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

1. Incoterms 2010 "DDP Delivered Duty Paid" at destinations indicated in Annex B.
2. The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the Technical Authority. The consignee may refuse shipments when prior arrangements have not been made.

6.4.4 Delivery and Unloading

Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.

When making deliveries, sufficient personnel must be provided to permit unloading of any type of vehicle without the assistance of federal government personnel.

At some sites, the delivery truck must be unloaded while parked at the curb. When material is placed on the sidewalk, it must be placed in proximity to the designated entrance so as to be readily accessible to transport by mechanical handling equipment utilized by site personnel.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Megan Buchanan
Title: Senior Materiel Acquisition and Support Officer
Department of National Defence
Directorate of Land Procurement

Address: 101 Colonel By Drive
Ottawa, Ontario
K1A 0K2

Telephone: 613-945-2929
E-mail: Megan.Buchanan@forces.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.

6.5.2 Technical Authority

The Technical Authority for the Contract is: *(To be completed by DND at contract award)*

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

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

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

6.5.3 Contractor's Representative *(To be completed by the bidder)*

Name: _____
Title: _____
Address: _____
Telephone: _____
Email: _____

6.5.4 After Sales Service *(To be completed by the bidder)*

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

Name: _____
Title: _____
Address: _____
Telephone: _____
Email: _____

6.6 Payment

6.6.1 Basis of Payment

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

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

6.6.2 Multiple Payments

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payments

6.6.3 SACC Manual Clauses

SACC Manual clause [C2000C](#) (2007-11-30) Taxes – Foreign-based Contractors

6.6.4 Electronic Payment of Invoices – Contract

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

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

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled “Invoice Submission” of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original must be forwarded to the Contracting Authority identified under the section entitled “Authorities” of the Contract.

6.8 Certifications

6.8.1 Compliance

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

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

6.9 Applicable Laws

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

6.10 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) the general conditions 2010A (2022-12-01) Goods – Medium Complexity;
- (c) Annex A, Purchase Description of Low Profile Type 2 Ambulance;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____

6.11 Defence Contract

SACC *Manual* clause [A9006C](#) (2012-07-16) Defence Contract

6.12 Insurance

SACC *Manual* clause [G1005C](#) (2016-01-28) Insurance – No Specific Requirement

6.13 Packaging Requirement

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.

SACC *Manual* clause [D2000C](#) (2007-11-30), Markings

SACC *Manual* clause [D2001C](#) (2007-11-30), Labelling

SACC *Manual* clause [D2025C](#) (2017-08-17), Wood Packing Materials

SACC *Manual* clause [D9002C](#) (2007-11-30), Incomplete Assemblies

6.14 Quality Assurance

SACC *Manual* clause [D5545C](#) (2019-05-30), ISO 9001:2008 – Quality Management Systems Requirement (Quality Assurance Code C)

6.15 Vehicle Safety

SACC *Manual* clause [A9049C](#) (2011-05-16) Vehicle Safety

6.16 Work Site Access

SACC *Manual* clause [A1009C](#) (2008-05-12) Work Site Access

6.17 Post-Contract Award/Pre-Production Meeting

Within ten (10) calendar days from the effective date of the Contract, the Contractor must contact the Contracting Authority to determine if a post-contract award meeting is required. A meeting will be convened at the discretion of the Technical Authority after contract award to review technical and contractual requirements. The Contractor shall be responsible for the preparation and distribution of the minutes of meeting within five (5) calendar days after the meeting has been held. The meeting will be held at the Contractor's facilities or at a Government facility or via teleconference, at Canada's discretion and at no additional cost to Canada, with representatives of the Contractor and the Department of National Defence.

6.18 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.

ANNEX A
PURCHASE DESCRIPTION FOR LOW PROFILE TYPE 2 AMBULANCE

1. SCOPE

1.1 Scope

This purchase description covers the requirements for an ambulance, Type 2, 4x4 drive (selectable or full-time), designed and built to the Ontario Provincial Land Ambulance & Emergency Response Vehicle Standard with the exception of sections 6 (Exterior Identification) and 10 (Emergency Warning System), which are to be excluded in whole or in part in accordance with this purchase description.

1.2 Instructions

The following instructions apply to the interpretation of this Purchase Description:

- a) Requirements, which are identified by the word "must", are mandatory. Deviations will not be permitted;
- b) Requirements identified with a "will" define actions to be performed by Canada and require no action/obligation on the Contractor's part;
- c) Where "must" or "will" are not used, the information provided is for guidance only;
- d) In this document "provided" means "provided and installed";
- e) Where a technical certification is referred to in this purchase description, a copy of the certification or an acceptable Proof of Compliance must be supplied for the vehicle when requested by the Technical Authority;
- f) Metric measurements are used to define the requirement. Other measurements are for reference only and may not be exact conversions;
- g) Where a standard is specified and the Bidder has offered an equivalent, that equivalent standard must be supplied by the Bidder; and
- h) Dimensions stated as nominal are to be treated as approximate dimensions. Nominal dimensions reflect a method by which materials or products are generally identified for sale commercially, but which differ from the actual dimensions.

1.3 Definitions

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

- a) "Equivalent" - Substitutes and alternatives that are equivalent in product, performance or a standard will be considered for acceptance by the Technical Authority where Proof of Compliance for equivalency for the respective requirement is provided for evaluation;
- b) "Vehicle" – The entire vehicle including all systems and sub-systems, in a complete manufactured state in accordance with the requirements in this Purchase Description;
- c) "Technical Authority" - The government official responsible for technical content of this requirement;
- d) "Proof of Compliance" - A document such as a brochure, a third party test report, a report generated by third party software, or a certificate of attestation signed by a senior representative

of the Original Equipment Manufacturer (such as a certified engineer) indicating the performance and/or feature specified;

- e) "Road Legal" – Applies to a self-propelled vehicle designed for or capable of transporting persons, property, material or permanently or temporarily affixed apparatus on a highway;
- f) "Gross Vehicle Weight Rating" (GVWR) - Maximum operating weight of the vehicle as stated by the manufacturer;
- g) "Gross Axle Weight Rating" (GAWR) - The value specified by the vehicle manufacturer as the load-carrying capacity of a single axle system, as measured at the tire-ground interfaces;
- h) "Curb Weight" - Empty weight (no payload included) of a fully equipped vehicle; and
- i) "Payload" - The unencumbered carrying capacity of the vehicle (i.e., GVWR less Curb Weight).

1.4 Technical Information Questionnaire

The Bidder must complete the Technical Information Questionnaire at Annex C. Failure to provide specified brochures, performance analysis, drawings, curves or tables may render the proposal non-compliant. A nil response to a Technical Information Questionnaire question may be considered non-compliant. Any deviation from the purchase description must be listed in the Conformance Certificate.

1.5 Applicable Documents

The following documents form part of this Purchase Description. Canada will not be supplying any reference documents. Sources are as shown:

Motor Vehicle Safety Regulations (MVSr)
Government of Canada, Transport Canada,
<http://www.tc.gc.ca>

Transport Canada - Technical Standards Document No. 120, Revision 2
Tire Selection and Rims for Motor Vehicles with a GVWR of More Than 4 536 kg
Government of Canada, Transport Canada,
<http://www.tc.gc.ca>

Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard
Ontario Ministry of Health and Long-Term Care
<https://www.health.gov.on.ca>

Hazardous Products Act
Government of Canada
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>

Canadian Occupational Health and Safety Regulations
Government of Canada
<http://laws-lois.justice.gc.ca/eng/acts/H-3/>

SAE Handbook
www.sae.org

2. REQUIREMENTS

2.1 Standard Design

The vehicle must:

- a) Be the latest model from a manufacturer who has demonstrated industry acceptability by selling this type and size class of vehicle for at least five (5) years;
- b) Include all components and accessories normally supplied for this application, although they may not be specifically described in this Purchase Description;
- c) Have engineering certification available for this application from the original manufacturers of drive train components, major equipment, systems and assemblies;
- d) Conform to all applicable laws, regulations and industrial standards in effect in Canada at the time of manufacture. The regulatory areas may include but are not necessarily limited to manufacturing, health and safety, noise levels, environment and emissions; and
- e) Not have system and component capacities increased above published ratings (i.e., product or component brochures).

2.2 Operating Conditions

The vehicle, at GVWR, must operate safely and efficiently on highways, secondary roads, gravel roads and dirt roads (e.g., construction sites, open fields and dirt tracks) in year round conditions including mud, snow, sand and ice in the temperature range of -40°C to 37°C.

2.3 Safety Standards

2.3.1 Vehicle Safety Regulation

The vehicle must:

- a) Meet the provisions of the Canadian Motor Vehicle Safety Regulations (MVSR);
- b) Have a Safety Compliance Certification Label with a National Safety Mark (NSM) as a seal of compliance or be accompanied by a Vehicle Import Form containing proof of Inspection by the Registrar of Imported Vehicles; and
- c) Comply with the Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard, except as specified otherwise in this purchase description.

2.3.2 Hazardous Materials

The Contractor must minimize or eliminate the use of hazardous materials, ozone depleting substances, polychlorinated biphenyls, asbestos and heavy metals (as described in the Hazardous Products Act of Canada) on the vehicle at time of delivery.

2.3.3 Human Engineering and Safety

The vehicle must:

- a) Comply with the relevant sections of the Canadian Occupational Health and Safety Regulations;
- b) Be safe and easy to use by a 95th percentile male to 5th percentile female (as per SAE Rule B3.9.3) under all operating conditions;
- c) Be equipped, where required for operator safety, with safety features such as warning and instruction plates, heat shields and protective covers over rotating/moving parts; and
- d) Be equipped with non-slip walking surfaces, bolsters to protect people moving through openings from projections or obstructions, and interior grab bar handles and rails to assist the movement of people seated, or entering / exiting the ambulance.

2.4 Maintainability

All maintenance and repair tasks, especially routine operator maintenance, must:

- a) Be designed for easy performance of all tasks utilizing standard tools (i.e., no special tools); and
- b) Be designed to permit a 95th percentile male to 5th percentile female (as per SAE Rule B3.9.3) to perform tasks including:
 - i. Easy access to all items that require service or maintenance; and
 - ii. Not have access panels permanently attached (i.e., no riveted plates);

2.5 Performance

The vehicle, at GVWR, must be capable of sustaining a speed of 120 km/h (74.5 mph) on a level paved road.

2.6 Weight Ratings

The vehicle must:

- a) Have a GVWR of not less than the sum of the unloaded vehicle mass plus the cargo carrying capacity and the product obtained by multiplying the designated seating capacity by 68 kg (149.6 lbs) (i.e., curb weight plus payload) as defined in the MVSR; and
- b) Have a combined GAWR that complies with all provincial weight restrictions across Canada.

2.7 Dimensions

The vehicle must have dimensions that are road legal across all of Canada including:

- a) Overall height of no more than 2.9 m (114 in); and
- b) Overall width including folded exterior rear view mirrors of no more than 2.41 m (95 in).

2.8 Engine

The vehicle engine must:

- a) Operate on ultra-low Sulphur diesel fuel in accordance with CAN/CGSB Standard 3.517 or unleaded gasoline in accordance with CAN/CGSB Standard 3.5-99;
- b) Meet current Canadian emission standards; and
- c) Be turbocharged and electronically controlled.

2.8.1 Engine Components

The engine must include:

- a) A replaceable dry-type air filter that includes a filter restriction gauge;
- b) A magnetic drain plug for the oil pan;
- c) Spin-off replaceable oil and fuel filters;
- d) Engine coolant for temperatures down to -40°C;
- e) Exhaust system that clears the body and that is directed away from critical areas such as wiring, storage areas and mud flaps; and
- f) A cooling system that includes a thermostatically controlled fan.

2.8.2 Cold Weather Starting Aids

The vehicle must be equipped with the following:

- a) A 110-volt coolant block heater of the highest wattage capacity recommended by the engine manufacturer;
- b) A 110-volt battery blanket;
- c) The following for diesel engines only:
 - i. A fuel filter/water separator incorporating a thermostatically controlled heater; and
 - ii. An air intake heater system, or a cold weather starting fluid injection system that incorporates the following:
 - a. A thermostatically controlled safety shut-off device to prevent the injection of starting fluid into a hot air intake;
 - b. An easily accessible spin-on starting fluid reservoir, changeable without special tools; and
 - c. An automatic control, enabling operation only when the starter is engaged.

2.8.3 Anti-Theft Device

The vehicle must be equipped with an anti-theft device that locks the steering and shift lever, but allows the engine to keep running with all other mechanical and electrical functions operable, when the driver has removed the ignition key.

2.9 Fuel System

The vehicle must:

- a) Have a fuel tank(s) with a minimum total capacity of no less than 150 liters (40 US gallons); and
- b) Have the fuel filler cap marked to identify the vehicle fuel type.

2.10 Transmission

The vehicle must be equipped with an electronically controlled fully automatic transmission as follows:

- a) Compatible with the engine provided;
- b) Requires no driver intervention to start, change speeds, or stop;
- c) Has a minimum of five (5) forward speeds and one (1) reverse speed; and
- d) Includes an audible back-up alarm to alert personnel that the vehicle transmission is in reverse.

2.11 Brakes

The vehicle brakes must:

- a) Be the manufacturer's standard hydraulically operated disk brakes incorporating an anti-lock braking system (ABS);
- b) Include separately actuated parking brakes; and
- c) Meet the provisions of the Canadian Motor Vehicle Safety Regulations (MVSR).

2.12 Wheels and Tires

The vehicle must be equipped with:

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- a) Tires and rims selected in accordance with Transport Canada Technical Standards Documents No. 120, balanced to preclude wheel shimmy at all vehicle speeds;
 - b) Tires, suitable for all weather conditions detailed in Section 2.2, as follows:
 - i. Highway tires on the front axle; and
 - ii. Mud and snow tires on the rear axle;
 - c) Full-size spare wheel and tire assembly for each tire size stored in a dedicated storage location on the vehicle; and
 - d) Wheel changing tools and a heavy-duty hydraulic jack capable of lifting the loaded vehicle.

2.13 Suspension

The vehicle must be equipped with:

- a) Heavy duty coil or leaf spring suspension at the front;
- b) Heavy duty coil or leaf spring suspension at the rear or, if required to facilitate loading the main cot, an air suspension system to permit lowering the rear of the vehicle; and
- c) Double acting shock absorbers on all axles.

2.14 Axles

The vehicle must be equipped as follows:

- a) One (1) speed single front drive axle with single wheels;
- b) One (1) speed single rear drive axle with single wheels; and
- c) All-wheel drive (AWD) or selectable four-wheel drive configuration with modes as follows:
 - i. Two (2) wheel drive high (rear);
 - ii. Four (4) wheel drive high; and
 - iii. Four (4) wheel drive low.

2.15 Frame/Chassis

The vehicle frame/chassis must:

- a) Include a galvanized steel frame and cross-members;
- b) Include two (2) front and two (2) rear tow hooks or loops of sufficient strength and mounting to permit the recovery and tie-down of the fully loaded vehicle that are accessible without having to crawl under the vehicle;
- c) Be reinforced as follows:
 - i. All stress concentration points; and
 - ii. Chassis front and rear towing points and equipment mounting points;
- d) Include the manufacturer's standard front and rear license plate holders, illuminated in accordance with the CMVS requirements;
- e) Include manufacturer's standard mud flaps on the front and rear wheels;
- f) Include a skid plate(s) on the underside of the frame/chassis that provides damage protection for the engine and transmission from road debris; and

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- g) Include a front push bumper with a hidden winch as follows:
- i. Electric winch incorporated into the front bumper such that is hidden from view other than the cable hook/guide plate;
 - ii. Minimum pulling capacity of 4090 kg (9000 lbs); and
 - iii. Include a winch accessory kit in a soft-shell case stored in the vehicle in as accessible location that includes the following:
 - a. Removable operating cable;
 - b. Recovery strap;
 - c. Gloves;
 - d. Shackle;
 - e. Choker chain;
 - f. Snatch block; and
 - g. Tree trunk protector.

2.16 Cab

The vehicle must be equipped with the manufacturer's standard weatherproof, insulated and sound proofed two (2) person cab equipped with the following:

- a) HVAC - A factory installed heating, ventilation and air conditioning system as follows:
 - i. Equipped with an environmentally friendly refrigerant;
 - ii. Include all components and controls required for regulation of the cab interior temperature;
 - iii. Include a multi-speed fan for ventilation and defrost; and
 - iv. Tinted side windows to reduce solar heating effects;
- b) Doors - Driver and passenger side doors as follows:
 - i. Include power windows and door locks;
 - ii. Keyed alike; and
 - iii. Include a keyless entry system
- c) Seats - Seats as follows:
 - i. Padded high-back adjustable (horizontal and vertical) driver and front passenger seats with arm rests on both sides; and
 - ii. Leatherette or vinyl waterproof surfaces or equipped with aftermarket water-proof seat covers;
- d) Seat Belts - Retractable shoulder/lap belt assemblies for the driver and front passenger;
- e) Airbags – Driver and passenger airbags;
- f) Steering – Power steering with an adjustable/tilt type steering wheel;
- g) Side Mirrors - Two aerodynamic, heavy-duty, heated, motorized, side mirrors as follows:
 - i. Include convex mirrors;
 - ii. Replaceable glass;
 - iii. Adjustable from inside the cab; and
 - iv. Painted the same color as the cab or have a bright metallic non-painted finish;
- h) Sun Visors - Two dual panel, rotating and pivoting, interior sun visors that can be used simultaneously for forward and side sun blocking;
- i) Windshield Wipers - Electrical power actuated windshield wipers with variable intermittent speeds;
- j) Windshield Washers - Electrical power actuated windshield washers;

- k) Cab Floor – Weatherproof flooring that resists absorption of toxins and promotes ease of cleaning (carpet is not acceptable);
- l) Pass-Through - A communication window connecting the patient compartment and the cab of maximum practicable size;
- m) Radio - The manufacturer's standard AM/FM radio with a CD player and/or audio jack for connecting portable audio devices, and a clock;
- n) GPS - The manufacturer's standard Touch-screen Navigation system in addition to or as part of the radio system;
- o) Back-up Camera - The manufacturer's standard back-up camera including:
 - i. Front and rear facing color output cameras that activate when the vehicle is reversing;
 - ii. Minimum 7.5 cm x 7.5 cm (3 in x 3 in) dash-mounted display; and
 - iii. Permits operator to switch between front and rear view;
- p) Interior – Manufacturer's standard interior trim with dark upholstery, coat hooks, rubber mats and armrests on all doors;
- q) USB - Two (2) continuously powered USB ports in the center console area;
- r) Coffee Cup Holders - Dash coffee cup holders (minimum 2);
- s) Lighting – Interior lighting as follows:
 - i. Interior LED lighting with a door activated switch; and
 - ii. Manufacturer's standard map light for illumination of paperwork held by the passenger in the cab (Note: Gooseneck type swiveling spotlight type map lights are not acceptable);
- t) Fire Extinguisher – One (1) 2.3 kg (5 lb) ULC approved and rechargeable dry chemical fire extinguisher with a minimum rating of 3A10BC equipped with a pressure gauge and service inspection tag, mounted in the cab in a location that is readily accessible to the Driver.

2.16.1 Communication System

The vehicle must be equipped with the following:

- a) Two-Way Radio Fittings - All the required fittings, wiring and space allocation for future installation of a standard two-way radio, with cabling labelled for ease of installation;
- b) Public Address System - A Public Address system with sirens and operation modes of hi-lo, yelp, wail, public announcement, air horn and radio re-broadcast; and
- c) Intercom - A two-way intercom system for communication between the cab and the patient compartment.

2.16.2 Vehicle Controls/Instruments

The vehicle must be equipped with the following controls/instruments:

- a) Instruments - Manufacturer's standard instruments as follows:
 - i. Tachometer;
 - ii. Odometer showing cumulative distance in kilometers;
 - iii. Coolant temperature gauge and/or high coolant temperature indicator;
 - iv. Transmission temperature gauge and/or high transmission temperature indicator;

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- v. Engine oil pressure gauge and/or low engine oil pressure indicator;
 - vi. Voltmeter or ammeter;
- b) Back-Up Alarm - A back up alarm shut off switch located on the driver's side dash;
 - c) Cruise Control – Manufacturer's standard cruise control system; and
 - d) Black-Out Switch - In contravention of the CMVS regulations, a single manually operated switch that shuts off all sound and light emitting sources internal and external to the vehicle (i.e., complete black-out including brake lights, dash lights, headlights, etc.) with the exception of the Infrared Flood Lamp/Driving Lights that are controlled independently.

2.17 Patient Compartment

Unless specified otherwise, the patient compartment must be compliant with the requirements of the Ontario Provincial Land Ambulance & Emergency Response Vehicle Standard for a Type II Ambulance.

2.17.1 Patient Compartment Equipment/Fittings

The following must be provided:

- a) Main Cot - The Stryker MX Pro 3 secured at three points to prevent movement during transit, oriented with the patient's head pointing toward the cab;
- b) Primary Attendant's Seat - An attendant's seat located at the head of the main stretcher as follows:
 - i. Mounted on a seat pedestal;
 - ii. A padded water-proof seat with arm rests and a high back rest equipped with a retractable seatbelt;
 - iii. Horizontally and vertically adjustable without having to move from a seating position; and
 - iv. Capable of pivoting 180° from facing the rear of the vehicle to the front of the vehicle with the ability to lock in the forward and rear facing positions;
- c) Secondary Attendant's Seat - An attendant's seat located on the right side of the patient compartment as follows:
 - i. Mounted on a seat pedestal;
 - ii. A padded water-proof seat with arm rests and a high back rest equipped with a retractable seatbelt;
 - iii. Horizontally and vertically adjustable without having to move from a seating position; and
 - iv. Capable of pivoting 180° from facing the rear of the vehicle to the front of the vehicle with the ability to lock in the forward and rear facing positions;
- d) Action Wall - An action wall on the road-side of the patient compartment as follows:
 - i. An action area towards the front of the patient compartment that is at a level accessible by the attendant when seated in the primary attendant's seat; and
 - ii. Contain the following:
 - a. Main oxygen outlet and controls;
 - b. The suction aspiration system;
 - c. Attendant control console (patient compartment switch panel) for lights;
 - d. Thermostat for HVAC system(s);
 - e. Reading light; and
 - f. Mounting space for the two-way radio handset and speaker;
- e) Suction Aspiration System – A portable electrically powered suction aspiration system as follows:
 - i. Be color coded to indicate suction and labelled with the manufacturer's name and any applicable standard ratings;
 - ii. Be equipped with a suction outlet with a variable speed switch and a vacuum gauge;

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- iii. Be connected to a reusable collection jar of a minimum of 1200 mL (40.6 US fluid oz) which uses disposable collection bags;
 - iv. Have an electric vacuum pump powered by 12 VDC either through the ambulance on-board system (when plugged in) or by rechargeable batteries when disconnected; and
 - v. Include minimum ten (10) disposable collection bags for the collection jar;
- f) Backboard - Minimum one (1) backboard with a dedicated storage area in the patient compartment.

2.17.2 Patient Compartment Floor

The patient compartment floor must:

- a) Be at the lowest level permitted by the chassis/body;
- b) Have a heavy duty safety floor covering material (e.g., LONCOIN®) bonded to the floor that is:
 - i. Fireproof and slip-proof no wax type; and
 - ii. Mark resistant and scuff proof;
- c) Have protective floor level mouldings, edging and trim that is sealed to prevent fluid seepage under cabinets, walls, etc.

2.17.3 Exterior Patient Compartment Doors

The patient compartment floor must have the following doors:

- a) Rear Doors – Double doors at the rear of the patient compartment as follows:
 - i. Dual doors with vertical hinges that provide a minimum clear opening to permit loading/unloading the main cot;
 - ii. Include swing limiters and hold-open devices; and
 - iii. Have a fixed window of the maximum practical size made of automotive grade laminated glass in each door with 10-20% “Visible Light Transmission” level of glass tinting to reduce solar heating effect. Should aftermarket tinting be used, it is to be a metallic film with 10-20% “Visible Light Transmission” of a smoke charcoal color;
- b) Side Exit Door – Manufacturer’s standard sliding door located on the curb side of the patient compartment with a fixed window of the maximum practical size made of automotive grade laminated glass in each door with 10-20% “Visible Light Transmission” level of glass tinting to reduce solar heating effect. Should aftermarket tinting be used, it is to be a metallic film with 10-20% “Visible Light Transmission” of a smoke charcoal color.

2.17.4 Interior Shelving, Storage and Mounting

Interior shelving, storage and mounting must be provided according to the Ontario Provincial Land Ambulance & Emergency Response Vehicle Standard as follows:

- a) Shelves and storage compartments constructed from aluminum;
- b) Be designed and built to avoid unwanted opening in transit or as a result of a vehicle collision;
- c) Have doors for shelves and storage compartments as follows:
 - i. Have interior locks and release handles that allow the doors to be locked or unlocked without using a key; and
 - ii. Have one or more windows made of lightly tinted, transparent, non-shattering material;
- d) Have doors for the action wall equipment compartments as follows:

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- i. Be sliding doors made of a heavy duty, transparent, non-shattering material such as Plexiglas or polycarbonate which complies with Transport Canada Regulations for motor vehicle glazing;
 - ii. Have bevel edged finger holes or handles for ease of opening;
 - iii. If finger holes are provided, have open sided cut-outs on the opposing door edges to prevent fingers from being pinched when opening the doors;
 - iv. Have a simple latch system to prevent compartments from opening freely during travel; and
 - v. Have a system that allows the sliding doors in their frame to flip up or down to allow full width and height access to the storage compartment;
- e) Include four (4) ceiling mounted Intravenous (IV) hooks with securing straps for IV solution bags.

2.17.5 Oxygen System

The ambulance must have a hospital grade piped oxygen system capable of storing and supplying medical oxygen as follows:

- a) Permit connection to minimum one (1) steel or aluminum type "M" or type "S" oxygen tank;
- b) Include minimum two (2) jumbo "D" oxygen cylinder mounting cradles suitable for storing aluminum or steel oxygen cylinders in the interior of the patient compartment near the connection point;
- c) Include minimum two (2) Amico DISS wall outlets, model O-DISWAL-U-OXY or equivalent located as follows:
 - i. On the action wall; and
 - ii. Top of the curb-side wall, located above the head of the right-side attendant seat;
- d) Color coding of all components to indicate oxygen; and
- e) Safety protection for both outlets from impact such as a cover for when not in use.

2.17.6 Patient Compartment Lighting

The patient compartment must be equipped with the following lighting:

- a) Overhead Lighting – Overhead white patient compartment LED lighting as follows:
 - i. Mounted as close to flush as possible;
 - ii. Include high and low settings or variable intensity;
 - iii. Activated automatically at the low setting when any patient compartment door is opened; and
 - iv. Controls (on/off/intensity) located on the attendant control console on the action wall;
- b) Cabinetry Lighting – Minimum one (1) LED cabinet light in each interior storage cabinet as follows:
 - i. Mounted forward in the cabinet so as to not be covered when the cabinet is filled with supplies;
 - ii. Include high and low settings or variable intensity;
 - iii. Activated automatically at the low setting when the cabinet door is opened; and
 - iv. Controls (on/off/intensity) located on the attendant control console on the action wall;
- c) Action Wall Reading Light – An LED light for lighting up the action wall controlled by a switch on the action wall; and
- d) Light Disable Switch - Single manually operated switch to disable all light sources inside the patient compartment located on the action wall.

2.17.7 Patient compartment Heating, Ventilation and Air Conditioning (HVAC)

The patient compartment must be equipped with an HVAC system as follows:

- a) Meet the requirements of the Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard for ambulance body HVAC;
- b) Ducted forced air high volume capacity with low velocity delivery for minimum draft circulation;
- c) Not allow the vehicle exhaust gases resulting from internal combustion into the patient compartment;
- d) Be designed so that when power to the ambulance electrical system is energized (at start up or when shore power is connected), the heating and cooling functions will return to the last settings in use when the power was turned off;
- e) Include an auxiliary 110 VAC electric heater powered exclusively from the shore power source when energized (i.e., not function when the vehicle is running and the DC to AC inverter is energized); and
- f) Have controls on the action wall as follows:
 - i. Thermostat Control - A thermostat control for the HVAC system as follows:
 - a. Allow control of the patient compartment temperature from 15 to 23°C (59 to 74°F);
 - b. Have a timer that allows the thermostat to be set on a seven-day schedule for a minimum seven days in advance; and
 - c. Have an override switch that turns the heater on, independent of thermostat setting;
 - ii. Heater Fan Speed Switch - A switch that operates the HVAC circulation fan in three settings: high, low and off positions;
 - iii. Climate Control Selector – A switch to select whether the HVAC heater or air conditioner is used; and
 - iv. Auxiliary Heater Thermostat Control - A thermostat control for the auxiliary heater that allows maintenance of the patient compartment above the set-point.

2.18 Ambulance AccessoriesThe following accessories must be provided:

- a) Clock – One battery operated, digital clock with a seconds display, mounted in the patient compartment, with a face large enough to read the time from any location in the patient compartment;
- b) Waste Containers – Two (2) containers of a minimum capacity of 5 l (1.32 US gal), one approved for waste disposal and the other for hazardous waste disposal, mounted in an accessible dedicated location in the patient compartment;
- c) Sharps Containers - One sharps container of with a safe design such as Becton Dickinson #367201 “Vacutainer” or equivalent, mounted in the patient compartment; and
- d) Fire Extinguishers – One (1) 2.3 kg (5 lb) ULC approved and rechargeable dry chemical fire extinguisher with a minimum rating of 3A10BC equipped with a pressure gauge and service inspection tag, mounted on a fire extinguisher bracket in the patient compartment.

2.19 Vehicle Electrical System

The vehicle must be equipped with manufacturer's standard 12-volt electrical system that includes:

- a) Alternator with an output of at least 350 amperes;
- b) Wiring protected by insulating grommets where passing through metal;
- c) Electrical circuits protected with fuses, relays or circuit breakers;
- d) Exterior wiring sealed to provide protection from the elements and submersion in salt water;
- e) Shore Power Supply - An auto-eject, ground fault interrupt (GFI) protected 110 VAC external shore power supply inlet for use when the vehicle is parked and can be plugged into a power supply. The shore power supply will be the preferred supply for all 110 VAC equipment including:
 - i. All 110 VAC power outlets; and
 - ii. Ambulance body electrical heater;
- f) A minimum 3,000-watt 15-Amp DC-to-AC inverter with weatherproof, 110-VAC, GFI receptacles as follows:
 - i. Two (2) 110 V, 400 Watt AC power outlets in the center cab console area;
 - ii. Two (2) additional receptacles installed in the patient compartment; and
 - iii. Operate when the engine is running and automatically disconnect when the shore power supply is energized;
- g) The following within the patient compartment:
 - i. Flush-mounted 12 VDC polarized socket-type outlets with continuous power, located as follows:
 - a. Minimum two (2) on the driver-side cabinet wall near the head of the stretcher as dedicated incubator receptacles; and
 - b. Additional outlets as required;
 - ii. Minimum two (2) continuously powered USB ports; and
 - iii. Minimum two (2) GFI protected 110 Volt AC duplex outlets.

2.19.1 Batteries

The following must be provided:

- a) Chassis Battery - Dedicated heavy duty maintenance free battery for the vehicle start/operation with a total cold cranking ampere capacity at -28.9° C of at least 1500 (CCA);
- b) Conversion Battery(ies) - Additional batteries as required for operation of the patient compartment located under the hood or in a dedicated battery box as follows:
 - i. Lockable, corrosion resistant, ventilated and electrically insulated.; and
 - ii. Permit easy access (without the use of tools) for daily inspections, periodic maintenance and battery charging;
- c) Have the battery locations labelled "Chassis Battery" and "Conversion Battery" as applicable;
- d) Include an isolation bar isolator that allows all batteries to be charged simultaneously, but does not allow the batteries to draw from each other; and
- e) Include a master disconnect to isolate the conversion battery(ies) from the chassis battery to avoid drainage while in storage.

2.19.2 Vehicle Lights

The vehicle must be equipped with the following LED lights (where available) in accordance with MVSR Regulations:

- a) Headlights;
- b) Fog lights inset into the front bumper;
- c) The manufacturer's standard brake, turn, hazard and clearance lights;
- d) In-cab dash and control panel lights that provide adequate lighting for night-time operations; and
- e) Flood Lamp/Driving Lights – Infrared flood lights mounted on each side of the front of the vehicle to provide illumination to the area directly to the front of the vehicle, controlled independently of the black-out switch.

2.19.3 Exterior Emergency Lighting

In contravention of Section 10 of the Ontario Provincial Land Ambulance & Emergency Response Vehicle Standard, exterior emergency warning lighting (forward warning lights, side and rear roof level warning lights, scene lights, grille lights and intersection lights) are NOT to be provided except for forward and rearward facing emergency red flashing lights (final configuration of the red flashing lights to be confirmed at the Contract Kick-Off meeting).

2.20 Decals

In contravention of Section 6 of the Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard, no identification marking as an ambulance (decals or otherwise) are to be provided on the exterior of the vehicle.

2.21 Paint

The following paint procedure must be followed for the vehicle:

- a) The exterior painted in accordance with the paint manufacturer's recommendations, rendering a durable finish and a smooth appearance free from runs, sag and orange peel;
- b) The final paint color is to be the manufacturer's standard color (final color to be determined at the Contract Kick-Off meeting);
- c) Non-ferrous metals (e.g., aluminum) anodized where exposed to the environment; and
- d) A phosphate treatment plus primer or an E-coat system on all ferrous metals, followed by a minimum of one coat of paint and a clear coat.

2.21.1 Corrosion Protection System

The following must be provided for the vehicle:

- a) Aftermarket rust proofing provided in addition to standard factory rust proofing. The treatment date will be directed by the Technical Authority to optimize seasonal rust prevention benefits. If not demanded prior to delivery, a pre-paid certificate authorizing treatment at an aftermarket outlet must be provided with the vehicle;
- b) Metal surfaces treated with a rust preventive oily film product having the following properties;
 - i. Moisture displacing;
 - ii. Creeping (capillary action);
 - iii. Low solvent content;
 - iv. Compatibility with rubbers, plastics and all other materials used in automotive construction;
 - v. Nontoxic; and

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- vi. Minimal dripping;
 - c) The application includes, but is not limited to, enclosed and boxed-in sections, seams, mouldings, crevices, weld points, underbody and exposed exterior brackets.

Note: The product applied must be a commercial product such as Krown, or Rust Check. A decal and warranty papers must accompany the vehicle.

2.21.2 Corrosion Resistant Materials

The vehicle must:

- a) Utilize materials that resist damage or deterioration as a result of cleaning with hot or cold water, steam, or detergents; and
- b) Be designed to prevent galvanic corrosion.

2.22 Lubricants and Hydraulic Fluids

The axles, transmission and differentials must be lubricated with synthetic non-proprietary lubricants and hydraulic fluids that are suitable for the destination and the season of delivery. Grease fittings provided on the vehicle must conform to SAE J534.

2.23 Warning and Instruction Plates

The vehicle must be equipped with warning and equipment operation instruction plates that are in accordance SAE J115 as follows:

- a) Each control permanently marked to identify the function;
- b) Bilingual (English and French) format and/or make use of international graphic symbols, as much as possible, as defined in SAE J1362; and
- c) Mounted within easy view of a person standing near the location.

2.24 Identification

The following information must be permanently affixed in a conspicuous and protected location:

- a) The vehicle manufacturer's name, model number, vehicle identification number (VIN) and model year;
- b) The body manufacturer's model and serial number;
- c) Equipment manufacturer's model and serial number; and
- d) The GVWR and GAWR ratings.

2.25 Vehicle Delivery Condition

The vehicle must be delivered to destination in a fully operational condition (serviced and adjusted) and the interior and exterior thoroughly cleaned. For shipment verification, all items such as wheel wrenches, jacks, and all other tools, equipment and accessories, which are shipped loose with the vehicle, must be listed on the shipping certificate or to an attached packing note. The vehicle fuel tank(s) must be at least half full on delivery.

2.26 Training

The Contractor must provide a one (1) day (8 hours) familiarization course in English, at the delivery location, for a maximum of eight (8) DND personnel, no later than one (1) month after delivery of the vehicle on a date as arranged with the DND Technical Authority. The instruction must be split into two (2)

segments of four (4) hours each for operator familiarization and maintainer familiarization, to include the following:

- a) Operator familiarization:
 - i. Safety precautions while operating and servicing the vehicle;
 - ii. Vehicle operating characteristics and procedures;
 - iii. Pre-operating and shutdown procedures;
 - iv. Detailed operation and normal servicing of the vehicle; and
 - v. Daily/weekly operator servicing procedures;

- b) Maintainer familiarization:
 - i. Operating familiarization including:
 - a. Safety precautions while operating and servicing the vehicle;
 - b. Vehicle operating characteristics and procedures;
 - c. Pre-operating and shutdown procedures;
 - d. Detailed operation and normal servicing of the vehicle; and
 - e. Daily/weekly operator servicing procedures;
 - ii. Sub-systems familiarization;
 - iii. Operation and maintenance safety precautions;
 - iv. Preventive maintenance including servicing schedules;
 - v. Trouble shooting, testing, and adjustments; and
 - vi. Use of special tools and test equipment;

- c) Provision of the following for each course:
 - i. Training materials for each DND attendee;
 - ii. Training material to include:
 - a. A list of topics to be covered;
 - b. A timetable showing when topics are scheduled to be covered and how much time is scheduled for each topic;
 - c. A list of reference material; and
 - d. Copies of reference material if used as part of the training.

3. DELIVERABLE INFORMATION

The Contractor must provide the following:

Element	Format	TA	Each vehicle
Manuals	Digital	X	X
	Paper		X
Warranty Letter	Digital	X	X
Data Summary	Digital	X	
Photographs	Digital	X	
Dimensioned Drawing	Digital	X	X
Safety Data Sheet	Digital	X	X
Special Tool List	Digital	X	
Preventive Maintenance Replacement Parts Kit List	Digital	X	
Recommended Spare parts List	Digital	X	
Initial Parts Kit List	Digital	X	
Initial Parts Kit	N/A		X

- a) Manuals – The following manuals in both hard copy and electronic (MS Word or PDF) in both English and French format. Electronic format must not require installation, password and/or

Internet connection to be accessed and be an unlocked PDF in a searchable format. The following must be provided:

- i. Operator's Manual – Vehicle operator's manual including the following information:
 - a. Instructions for the safe operation of the vehicle;
 - b. Daily operator maintenance instructions/checks (including lubrication);
 - c. Safety warnings; and
 - d. Any other operator familiarity items required;
- ii. Maintenance (Shop Repair) and Parts Manual including the following information:
 - a. Overview and illustrations showing all components of the vehicle including fitted equipment, suspension system and accessories from other manufacturers that are supplied against the requirements of the Contract. The illustrations must have numbers for the itemization of the parts;
 - b. A listing for all itemized parts showing the manufacturer's part numbers (including Original Equipment Manufacturer's) of the illustration, the part name and a brief description of the item;
 - c. Cross reference relating all part numbers (including Original Equipment Manufacturer's) to the correct figure and item number;
 - d. Scheduled preventive maintenance requirements;
 - e. A trouble shooting guide, showing the steps and tests required to determine the exact cause of a problem and an explanation of what steps would be required to correct a problem;
 - f. Information on the order of disassembly and assembly of the systems and components of the vehicle; and
 - g. A listing of the necessary tolerances, torque levels, fluid volumes, and special tools (including item part numbers);
- iii. Fitted Equipment Manuals - OEM user manuals for all fitted equipment not included in the vehicle manuals;

Note: Manuals may be provided as a single bilingual version or as two separate manuals (English and French).

- b) Data Summary - Bilingual data summary for each vehicle by completing the Technical Authority's template;
- c) Photographs - Photographs of each completed vehicle delivered to include:
 - i. Photographs in color, taken against a plain background, in digital JPEG format with a minimum 10-megapixel resolution;
 - ii. One left front three-quarter view; and
 - iii. One right rear three-quarter view;
- d) Dimensioned Drawing – One front-view and one side-view line drawing that gives dimensions of vehicle components, sizes, etc. with the vehicle part number and manufacturer's name;
- e) Safety Data Sheet - A list, in digital format, of all hazardous materials used on the vehicle. If there are no hazardous materials used, this must be stated on the list;
- f) Special Tools List - A list of special tools required for the servicing and repair of the vehicle including the following information for each item on the list:
 - i. Item name;
 - ii. Manufacturer's part number (OEM);
 - iii. Quantity recommended per delivery location; and
 - iv. Unit price;

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- g) Preventive Maintenance Replacement Parts Kit List - A list of parts needed to perform preventive maintenance on the vehicle for a six (6) month period including the following information for each item on the list:
- i. Item name;
 - ii. Manufacturer's part number (OEM);
 - iii. Manufacturer's NATO Supply code (NCAGE) or name and address;
 - iv. NSN (NATO Stock Number) (if known);
 - v. Quantity recommended; and
 - vi. Unit price;
- h) Recommended Spare Parts List - A list of spare parts necessary to maintain the vehicle for a six (6) month period including the following information for each item on the list:
- i. Item name;
 - ii. Manufacturer's part number (OEM);
 - iii. Manufacturer's NATO Supply code (NCAGE) or name and address;
 - iv. NSN (NATO Stock Number) (if known);
 - v. Quantity recommended; and
 - vi. Unit price;
- i) Initial Parts Kit - An initial parts kit with each vehicle to include a complete set of filters and filter elements from the Original Equipment Manufacturer (OEM) required in the first 12 months of service; and
- j) Safety Recalls and Servicing Data - The Contractor must provide the following information to all customer locations throughout the life expectancy of the vehicle or for no less than ten (10) years:
- i. Safety Recalls; and
 - ii. Manufacturer's Technical Service Bulletins (or equivalent).

**ANNEX B
BASIS OF PAYMENT**

Item No.	Description	Quantity	Delivery Address <i>(complete addresses to be provided at contract award)</i>	Delivery Date	Firm Unit Price	Extended Price
01	Type 2 Ambulance	2	Ashton, Ontario	_____ DD/MM/YYYY		
02	Type 2 Ambulance	2	Trenton, ON	_____ DD/MM/YYYY		
03	Training in accordance with Annex A, section 2.26	1	Ashton, Ontario	Within one (1) month of delivery		
04	Initial Parts Kit in accordance with Annex A, section 3	4		Delivered with each vehicle		
Sub-total						
Applicable tax (%)						
TOTAL						

Optional Quantity – Can be exercised within twenty-four (24) months after contract award						
Item No.	Description	Quantity	Delivery Address	Delivery Lead Time	Firm Unit Price	Extended Price
05	Type 2 Ambulance	4	Ashton, Ontario <i>(complete address to be provided at contract award)</i>	_____ Days		
06	Training in accordance with Annex A, section 2.26	1	Ashton, Ontario	Within one (1) month of delivery		
07	Initial Parts Kit in accordance with Annex A, section 3	4		Delivered with each vehicle		
					Sub-total	
					Applicable tax (%)	
					TOTAL	

Extended Warranty Period

If the warranty period is extended for an additional period of _____ months/calendar days *(to be provided by Bidder)*, the Contractor will be paid a firm unit price of \$ _____ *(to be provided by Bidder)* per vehicle/equipment, applicable taxes are extra.

ANNEX C
TECHNICAL INFORMATION QUESTIONNAIRE

Purpose

This Annex covers technical information to be supplied by each Bidder. This information is required by the Technical Authority for technical assessment of equipment offered.

Instructions

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

PURCHASE DESCRIPTION PARAGRAPHS

The paragraph numbers referenced refer to the paragraphs in the Purchase Description (Annex A) and not to those within this Annex.

Table 1: Compliance Matrix for Type 2 Ambulance

Annex A Para	Description	Compliant Circle One	Bid Reference
2.1	Standard Design: Make/Model: Model Year:	Yes / No	
2.2	Operating Conditions	Yes / No	
2.3.1	Vehicle Safety Regulations Origin of Manufacture: (Canada or foreign)	Yes / No	
2.3.2	Hazardous Materials	Yes / No	
2.3.3	Human Engineering and Safety	Yes / No	
2.4	Maintainability	Yes / No	
2.5	Performance: Level Paved Road Sustained Speed:	Yes / No	

2.6	Weight Ratings: GVWR: GAWR (combined):	Yes / No	
2.7	Dimensions: Overall Height: Overall Width (including folded exterior rear view mirrors):	Yes / No	
2.8	Engine	Yes / No	
2.8.1	Engine Components	Yes / No	
2.8.2	Cold Weather Starting Aids Starting fluid injection system or an air intake heater system provided (diesel engine only):	Yes / No	
2.8.3	Anti-Theft Device	Yes / No	
2.9	Fuel System Total Capacity:	Yes / No	
2.10	Transmission Forward Speeds: Reverse Speeds:	Yes / No	
2.11	Brakes	Yes / No	
2.12	Wheels and Tires Tire Size and Load Rating: Spare Wheel and Tire provided:	Yes / No	

	Wheels changing tools and hydraulic jack provided:		
2.13	Suspension	Yes / No	
2.14	Axles AWD or Four-Wheel Drive configuration:	Yes / No	
2.15	Frame/Chassis Winch Make/Model:	Yes / No	
2.16	Cab	Yes / No	
2.16.1	Communication System	Yes / No	
2.16.2	Vehicle Controls/Instruments	Yes / No	
2.17	Patient Compartment	Yes / No	
2.17.1	Patient Compartment Equipment/Fittings	Yes / No	
2.17.2	Patient Compartment Floor	Yes / No	
2.17.3	Exterior Patient Compartment Doors	Yes / No	
2.17.4	Interior Shelving, Storage and Mounting	Yes / No	
2.17.5	Oxygen System	Yes / No	
2.17.6	Patient Compartment Lighting	Yes / No	

2.17.7	Patient Compartment HVAC	Yes / No	
2.18	Ambulance Accessories	Yes / No	
2.19	Vehicle Electrical System	Yes / No	
2.19.1	Batteries	Yes / No	
2.19.2	Vehicle Lights	Yes / No	
2.19.3	Exterior Emergency Lighting	Yes / No	
2.20	Decals	Yes / No	
2.21	Paint	Yes / No	
2.21.1	Corrosion Protection System	Yes / No	
2.21.2	Corrosion Resistant Materials	Yes / No	
2.22	Lubricants and Hydraulic Fluid	Yes / No	
2.23	Warning and Instruction Plates	Yes / No	
2.24	Identification	Yes / No	

Conformance Certificate - If the vehicle and equipment offered do not conform exactly to the requirements of the purchase description, any deviation must be listed below.

If there are no deviations, the Bidder must indicate below by checking the box:

NO DEVIATIONS

Firm Name:

Address:

Bidder Representative:

Title:

Telephone Number:

Signature and Date:

**ANNEX D to PART 3 OF THE BID SOLICITATION
ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts any of the following Electronic Payment Instrument(s):

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

ANNEX E to PART 5 of the 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-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)