

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 0A1 / Noyau 0A1
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 Health Command Post Vehicle | |
| Solicitation No. - N° de l'invitation W6399-12DE16/B | Date 2012-02-21 |
| Client Reference No. - N° de référence du client W6399-12DE16 | |
| GETS Reference No. - N° de référence de SEAG PW-\$\$HP-901-59361 | |
| File No. - N° de dossier hp901.W6399-12DE16 | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-04-03 | 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: Churchill, Gerald | Buyer Id - Id de l'acheteur hp901 |
| Telephone No. - N° de téléphone (819) 956-3935 () | FAX No. - N° de FAX (819) 953-2953 |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: <div>Specified Herein Précisé dans les présentes</div> | |

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

| | |
|--|--|
| 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 |

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

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Appendix 2

PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this requirement.

2. Requirement

Canada is seeking proposals to procure:

- 2.1 Two (2) Health Command Post Vehicles and related items as described in Annex “A” - Pricing and in accordance with Annex “B” - Purchase Description for Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle.
- 2.2 Irrevocable options identified in Annex “A” - Pricing.
 - 2.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.
 - 2.2.2 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.
 - 2.2.3 The options may be exercised within twenty four (24) months after contract award.

3. Debriefings

After contract award, 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.

4. Interpretation

The mandatory requirements stated in this Request for Proposal use the words "shall" or "must" or "mandatory". Proposals not meeting all of the mandatory requirements will be given no further consideration.

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 (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) 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 (**2011-05-16**) 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

Subsection **12.1 of 2003**, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Replace subsection 1. (a) and (b) with the following:

1. Canada may reject an offer where any of the following circumstances is present:
 - (a) the Bidder is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which renders the Bidder ineligible to bid on the requirement;
 - (b) an employee, or subcontractor included as part of the bid, is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which would render that employee or subcontractor ineligible to bid on the requirement, or the portion of the requirement the employee or subcontractor is to perform;

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 with copies 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. 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 and 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 are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or 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 must complete and submit by the bid closing date and time the following;

- 1) Appendix 1- Technical Information Questionnaire - Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle.

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).

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.

2.1.3 In conducting the evaluation of bids, Canada may, but will have no obligation to request the bidder offering a substitute and/or an alternative, to provide a copy of the alternative standard and to demonstrate, at the bidder's sole cost, that it is equivalent to the technical requirement.

3. Section II: Financial Bid

Bidders must submit their prices in Annex “A”- Pricing in accordance with the Basis of Payment described in **Part 6 - RESULTING CONTRACT CLAUSES**, at **Clause 6.1 Basis of Payment**.

3.1 Exchange Rate Fluctuation

- 3.1.1 Unless otherwise specified in the bid solicitation, bids must be in Canadian currency.
- 3.1.2 Bidders may request Canada to assume the risk for exchange rate fluctuation. This request must be specifically made at time of bidding.
- 3.1.3 The foreign currency component is defined as the element of the price that will be directly affected by exchange rate fluctuations. It could include the net price FOB foreign manufacturer's plant, costs associated with applicable duty, excise tax, Goods and Services Tax or Harmonized Sales Tax, if applicable, entry fees, transportation costs or delivery charges payable in a foreign currency, and any other charges associated with being the importer of record if they originated from and are required to be paid in a foreign currency.
- 3.1.4 The foreign value of the foreign currency component of the bid or negotiated price must be provided before contract award. Form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments, may be used for this purpose. If milestone payments are proposed, it is recommended to indicate on the above form the foreign currency component associated with each milestone event.
- 3.1.5 All bids are evaluated in Canadian currency. Therefore, for evaluation purposes, the noon rate quoted by the Bank of Canada as being in effect on date of bid closing, or such other date as may be specified in the bid solicitation, will be applied as the initial conversion factor for the specified currency. (Column 3 of the above form will be completed by the Contracting Authority.)
- 3.1.6 Rates proposed by bidders will not be accepted for the purposes of this exchange rate adjustment provision.
- 3.1.7 If there are two (2) identical bids, and provided that the bid selected would still be considered the most advantageous to Canada, preference will be given to the Bidder who assumes all or part of the exchange rate adjustment risk over a bidder who does not assume any of this risk. Furthermore, preference will be

given to the Bidder who assumes all of the exchange rate adjustment risk over a bidder who assumes only part of this risk.

3.1.8 Canada will pay the exchange rate adjustment amount in Canadian currency using the prevailing noon rate on the date of payment by Canada or, as applicable, in accordance with clause C3015C, C3020C, C3025C, or C3030C.

4. Section III: Certifications and Additional Information

Bidders must submit the certifications required under **PART 5 - CERTIFICATIONS**.

4.1 Additional Information

Canada requests that bidders submit the following information:

4.1.1 Delivery

4.1.1.1 Firm Quantity

While delivery of the vehicles is requested by August 30, 2012, the best delivery that can be offered is as follows:

Item 001 – Two (2) Health Command Post Vehicles and related items will be delivered within _____ calendar days from the effective date of the contract.

4.1.1.2 Optional Quantity

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

Item 002 – Up to two (2) Health Command Post Vehicles and related items will be delivered within _____ calendar days after an option is exercised.

4.1.2 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

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

2. Technical Evaluation

- 2.1 The purpose of the technical evaluation is to determine if the goods and/or services offered meet all mandatory technical requirements outlined in the documents enumerated hereafter and as required in **Section I - Technical Bid of Part 3 - BID PREPARATION INSTRUCTIONS:**

- Annex “B” - Purchase Description for Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle, and;
- Appendix 1- Technical Information Questionnaire - Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle.

3. Financial Evaluation

- 3.1 The purpose of the financial evaluation is to determine the aggregate price, based on the information submitted in Annex “A” - Pricing.

3.2 Aggregate Price Calculation

Bids will be evaluated on an aggregate price basis for the firm quantity and the optional quantity. Since the optional quantity are to be exercised within twenty-four (24) months, the firm unit prices for the optional quantity will be averaged.

- 3.2.1 To determine the averaged price for the optional quantities, calculation will be as follows:

- a) The firm unit prices for the optional quantity for each period of twelve (12) months will be added; and

- b) The sum will be divided by two (2).

3.2.2 To determine the aggregate price for the firm quantity and optional quantity, calculation will be as follows:

- a) The averaged price for the optional quantity obtained in 3.2.1 b) above will be multiplied by the total estimated optional quantity identified; and
- b) The result will be added to the total price for the firm quantity.

3.3 Any **Extended Warranty Period** offered will not be included in the financial evaluation and further negotiations may be required.

4. **Basis of Selection**

4.1 A bid must comply with the requirements of the bid solicitation and meet all mandatory requirements 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 to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Certifications Precedent to Contract Award

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

1.1 Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.
3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) () is subject to the FCP, and has a valid certificate number as follows:
 _____ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site.

[Http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml](http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml)

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with this requirement.

2. Requirement

2.1 The Contractor must deliver two (2) Health Command Post Vehicles and related items as described in Annex “A” - Pricing and in accordance with Annex “B” - Purchase Description for Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle.

2.2 The Contractor grants to Canada irrevocable options identified in Annex “A” - Pricing.

2.2.1 The options may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

2.2.2 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.

2.2.3 The options may be exercised within twenty four (24) months after contract award.

2.3 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.

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 (<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2011-05-16) General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

3.1.1 **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."

All other provisions of the warranty section remain in effect.

4. Term of Contract

4.1 Delivery of Vehicles

4.1.1 Firm Quantity

Delivery date of the vehicles must be made as follows:

Item 001 - Health Command Post Vehicles and related items must be delivered on or before _____ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

4.1.2 Option Quantity

Item 002 - Health Command Post Vehicles 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.)

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Gerry Churchill
 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: 819 956-3935
 Facsimile: 819 953-2953
 E-mail: gerald.churchill@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.

5.2 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.

5.3 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.

5.4 Contractor's Representative

Name and telephone number of the person responsible for :

General enquiries

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

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

Delivery follow-up

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

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

5.5 After Sales Service

5.5.1 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:

Name: _____
 Address: _____

 Telephone Number: _____

Distance between the delivery location and the dealer and/or agent: _____km

6. Payment

6.1 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, Goods and Services tax/Harmonized Sales Tax 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, Goods and Services Tax/Harmonized Sales Tax 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.

6.2 SACC Manual Clauses

H1001C Multiple Payments

2008-05-12

6.3 Exchange Rate/Payment on Delivery

6.3.1 The price in Canadian currency includes the foreign currency component in respect of goods, services or both originating outside Canada, as detailed in form PWGSC-TPSGC 9411, Claim for Exchange Rate Adjustments.

6.3.2 The price must be adjusted to reflect the exchange rate in effect and applied by Canada Border Services Agency (CBSA) on the date of importation, but only in respect of the foreign currency component detailed in the above form.

6.3.3 No price adjustment directly resulting from the application of the provisions contained in this clause will be applied for increases or decreases in the exchange rate within a variation of: plus or minus 2 percent of the exchange rate(s) mentioned above; or plus or minus \$100 of the total cumulative amount claimed for exchange rate adjustment under the Contract.

6.3.4 On each invoice or claim for payment submitted under the Contract, the Contractor must indicate the exchange rate adjustment amount (either upward, downward or no change) as a separate item. In addition, the invoice must be accompanied by a copy of CBSA Form B3-3, Canada Customs Coding Form, for the imported goods, services or both.

6.3.5 Canada will have the right to audit any revision to costs and prices under this clause.

7. Invoicing Instructions

7.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions including the Client Ref # W6399-12DE16. Invoices cannot be submitted until all work identified in the invoice is completed.

7.2 Invoices must be distributed as follows:

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

W6399
National Defence Headquarters
Mgen George R. Pearkes Bldg
101 Colonel By Drive
Ottawa, Canada
K1A 0K2

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

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

7.3 Holdback

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

Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, 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 GST/HST 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.
- (c) One (1) copy must be forwarded to the consignee.

8. Certifications

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

9. Applicable Laws

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

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) 2010A (2011-05-16) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description for Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle;
- (e) Appendix 1- Technical Information Questionnaire - Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle;
- (f) Appendix 2;
- (g) the Contractor's bid dated _____

11. SACC Manual Clauses

| | | |
|--------|---|------------|
| A1009C | Work Site Access | 2008-05-12 |
| A9006C | Defence Contract | 2008-05-12 |
| A9049C | Vehicle Safety | 2011-05-16 |
| C2800C | Priority Rating | 2011-05-16 |
| C2801C | Priority Rating - Canadian-based Contractors | 2011-05-16 |
| D3010C | Dangerous Goods/Hazardous Products | 2007-11-30 |
| D5545C | ISO 9001:2000 - Quality Management Systems - Requirements (QAC C) | 2010-08-16 |
| D9002C | Incomplete Assemblies | 2007-11-30 |
| G1005C | Insurance | 2008-05-12 |

12. 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.

13. 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 DND personnel at the final delivery location.

The fuel tanks must be at least half full prior to release of the vehicle(s) to DND personnel.

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.

14. Shipping Instructions - Delivery at Destination (For Firm and Optional Quantities)

- 14.1 The Contractor must ship the goods prepaid DDP - Delivered Duty Paid 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.
- 14.2 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.

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 _____ (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.

16. Progress Reports

The contractor must prepare and submit monthly progress reports in two (2) copies, one to the DND Procurement Authority and one copy of the report must also be forwarded to the PWGSC Contracting Officer.

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 ten (10) years.

19. Material

Material supplied must be new unused and of current production by manufacturer. (2011 model-year or later).

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.

Solicitation No. - N° de l'invitation

W6399-12DE16/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

hp901

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

W6399-12DE16

hp901W6399-12DE16

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.

ANNEX “A” - PRICING

Item 001 Health Command Post Vehicles (Firm Quantity)

The Contractor must deliver the vehicle/equipment including the sample manuals, operator's manuals, parts manuals, maintenance (shop repair) manual, electrical systems trace diagrams, data summary, photographs, warranty letter, spare parts list, line setting ticket, safety recalls/servicing data and familiarization training in accordance with the attached Annex “B” - Purchase Description for Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle.

The Health Command Post Vehicles and related items must be delivered to:

CFB Trenton
48 Portage Ave
P.O. Box 1000, Station Forces
Astra, ON
K0K3W0

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 6.1 Basis of Payment).

Quantity: Two (2)

Item 002 Health Command Post Vehicles (Optional Quantity)

If this option is exercised, the Contractor must deliver the vehicle/equipment including operator's manuals, parts manuals, maintenance (shop repair) manual, electrical systems trace diagrams, data summary, warranty letter, spare parts list, line setting ticket and safety recalls/servicing data in accordance with the attached Annex “B” - Purchase Description for Chemical Biological Radiological and Nuclear (CBRN) Health Services Vehicle.

If this option is exercised, the Health Command Post Vehicle(s) and related items must be delivered to:

CFB Trenton
 48 Portage Ave
 P.O. Box 1000, Station Forces
 Astra, ON
 K0K3W0

1st Year - 1st 12 months from Date 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 6.1 Basis of Payment).

2nd Year - month 13 to 24 from Date 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 6.1 Basis of Payment)

Quantity: Up to two (2)

Item 003 Optional Extended Warranty Period

Optional warranty coverage available: YES _____ NO _____

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.

(This item will not be included in the financial evaluation)

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 Part 6)

**ANNEX B - PURCHASE DESCRIPTION
FOR
CHEMICAL BIOLOGICAL RADIOLOGICAL AND NUCLEAR (CBRN)
HEALTH SERVICES VEHICLE**

1. SCOPE

1.1. Scope

This purchase description covers the requirements for a modular aluminum van body on a diesel powered, 4x4 cab and chassis with dual rear wheels. The van body is to be a sealed container capable of being pressurized via a HEPA filtration system to both positive and negative pressure. The van body shall have three main internal work areas; (1) A casualty treatment and transport area; (2) A command and control area, and; (3) A storage area for specialized medical materials and crew equipment. The vehicle shall be capable of transporting two NATO standard stretchers and three seated casualties. The vehicle shall also have seating for two attendants, a driver and a passenger.

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^(E)” are mandatory. The TA 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^(E)”, 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 upon request;
- (g) Where a standard or specification is required and the bidder offers an equivalent, that equivalent standard shall be provided upon demand;
- (h) Where equipment certification to an SAE standard is required, the bidder shall provide the certification upon request;
- (i) Metric measurements shall be used to define the requirement. Other measurements are for reference only and may not be exact conversions;
- (j) 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, but which differ from the actual dimensions; and
- (k) Bid submissions shall address all criteria identified in the Technical Information Questionnaire with complete supporting detail. Insufficient information to substantiate compliance or a nil response may result in the rejection of a response and may result in the bid submission rated as non-compliant.

1.3. Definitions

The following definitions apply to the interpretation of this Statement of Work:

- (a) "Technical Authority" - 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;
- (c) "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;
- (d) The term "Quality Assurance Representative" is defined as the government officer responsible for ensuring that the contractor quality system, material and services supplied meet the contract requirement;
- (e) "Vehicle" is defined as a Diesel Truck chassis complete with a van body;
- (f) "Curb Weight" is the empty weight (no payload included) of a fully equipped vehicle. Curb weight shall include the cab and chassis, van body, all attached devices, Contractor supplied equipment, and full fuel tanks, lubricants, and coolants;
- (g) The abbreviation "GVWR" represents gross vehicle weight rating and describes the vehicle at curb weight plus the maximum payload;
- (h) "Heavy Duty" - Represents the most durable item that is commercially available which may be in excess of the manufacturer's standard quality or capacity;
- (i) "Positive Pressure" - Refers to sufficient internal body positive air pressure to prevent the ingress of external gases from the external environment into the body by means other than the HEPA filtration system; and
- (j) "Negative Pressure" - Refers to sufficient internal body negative air pressure to overcome the egress of internal gases from the body into the external environment by means other than the HEPA filtration system.

1.4. Technical Information Questionnaire

The following applies:

- (a) The bidder *shall* complete a Technical Information Questionnaire for the vehicle configuration offered. Failure to provide specified brochures, performance analysis, drawings, curves or tables may render the proposal non-compliant; and
- (b) A nil response to a Technical Information Questionnaire question may be considered non-compliant. Any deviation from the purchase description *shall* be listed in the Conformance Certificate.

1.5. Configuration Capability Table

The following table shows required performance and dimensions with a clause reference.

| CLAUSE | DESCRIPTION | QUANTITY | UNITS |
|-----------|---|----------------|--------|
| 3.5.1(a) | GROSS VEHICLE WEIGHT RATING (INCLUSIVE) | 8,165 - 12,700 | kg |
| | | 18,000 - 28000 | lbs |
| 3.5.1(b) | PAYLOAD | 1364 - 1588 | kg |
| | | 3000 - 3500 | lbs |
| 3.5.2(a) | WHEELBASE | 4,570 - 5,969 | mm |
| | | 180 - 235 | in |
| 3.5.2(b) | OVERALL LENGTH | 9,144 | mm |
| | | 360 | in |
| 3.5.2(c) | OVERALL EXTERIOR WIDTH | 2,540 | mm |
| | | 100 | in |
| 3.5.2(d) | OVERALL HEIGHT | 2,692 | mm |
| | | 106 | in |
| 3.5.3(a) | VAN BODY LENGTH | 5,080 - 6,096 | mm |
| | | 200 - 240 | in |
| 3.5.3(b) | VAN BODY WIDTH | 2,540 | mm |
| | | 100 | in |
| 3.5.3(c) | VAN BODY INTERIOR HEIGHT | 1,676 - 1,727 | mm |
| | | 66 - 68 | in |
| 3.5.3(d) | HEADLINER HEIGHT | 1600 | mm |
| | | 63 | in |
| 3.5.4(a) | 30 MINUTES SUSTAINED SPEED | 120 | km/h |
| | | 74.6 | mph |
| 3.5.4(b) | 25 SECOND ACCELERATION SPEED | 90 | km/h |
| | | 55.9 | mph |
| 3.5.4(c) | 3% GRADEABILITY SPEED | 90 | km/h |
| | | 55.9 | mph |
| 3.5.4(d) | 35% GRADEABILITY SPEED | 8 | km/h |
| | | 5.0 | mph |
| 3.6.8 | FUEL TANK(S) CAPACITY | 219 | L |
| | | 58 | US Gal |
| 3.11.4(a) | BATTERY CAPACITY | 1500 | CCA |
| 3.11.5(a) | ALTERNATOR (EACH) | 150 | A |

1.6. Van Body Layout Sketches

Sketches of the requested van body layout are included with this Purchase Description as Appendix 2 for guidance only. Sketches are for guidance only and are not to scale. Compliance is based on the specific clauses in the Purchase Description and not on the sketches. The following sketches are included:

- (a) Figure 1 - Plan View;
- (b) Figure 2 - Road Side Interior View; and
- (c) Figure 3 - Curb-Side Interior View.

2. APPLICABLE DOCUMENTS

2.1. Government Furnished Documents

NOT ALLOCATED

2.2. Other Publications

The following documents form part of this Statement of Work. Effective dates shall be those in effect upon the date of manufacture. Sources are as shown:

SAE Handbook

Society of Automotive Engineers Inc.,
400 Commonwealth Drive, Warrendale, PA, 15096

Canada Motor Vehicle Safety Standards (CMVSS)**International Standards Council of Canada****Safety Act and Regulations**

Standardization Branch, 350 Sparks Street
Suite 1200, Ottawa, Canada, K1P 6N7

Ontario Provincial Land Ambulance & Emergency Response Vehicle Standard

VERSION 4.1 – July 15, 2010

Emergency Health Services Branch
Ontario Ministry of Health and Long-Term Care

3. REQUIREMENTS**3.1. Standard Design**

The vehicle design shall:

- (a) Be based on the chassis manufacturer's latest model;
- (b) Be manufactured by a company that has at least 5 years experience in manufacturing a comparable type of equipment of equivalent or greater complexity;
- (c) Have engineering certification available, upon demand, for this vehicle/equipment from the original manufacturers of major drive train components and major equipment systems and assemblies;
- (d) 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) Not have system and component capacities increased above published ratings (i.e. product or component brochures); and
- (f) Include all components, and accessories normally supplied for the intended equipment application, although they may not be specifically described in this Purchase Description.

3.2. Operating Conditions

The vehicle/equipment shall operate safely and efficiently in year-round climatic conditions in Canada as well as those temperature extremes found in foreign operating areas. The vehicle/equipment shall operate on paved roads, gravel roads and dirt roads with severe washboard, pot holes and off-road terrain in conditions including arid terrain (e.g., sand), mud, snow and ice in the temperature range of -45 to 50° C (-49 to 122° F).

3.3. Safety Standards

3.3.1. Vehicle Safety Regulations

The vehicle shall meet the provisions of the Canada Motor Vehicle Safety Act in effect upon the date of manufacture of the vehicle. The completed vehicle shall have a Safety Compliance Certification Label with a National Safety Mark (NSM), as a seal of compliance.

3.3.2. Variant Equipment Integrator(s) Certification

The bidder shall submit with the bid, the equipment integrator NSM certification number and a proof of registration with Transport Canada as a Final Stage Manufacturer for the applicable variant equipment.

3.3.3. Human Engineering and Safety

The vehicle/equipment, all systems and components shall:

- (a) Be safe and easy to use by a 95th percentile male or 5th percentile female (as per SAE Rule B3.9.3) under all operating conditions;
- (b) Have all entry and exit points equipped with handles and steps suitably positioned, to accommodate a 95th percentile male or a 5th percentile female under all operating conditions;
- (c) Be equipped, where required for operator safety, with safety features such as warning and instruction plates, non-slip walking surfaces and heat shields;
- (d) Include the manufacturer's standard bolsters to protect moving people from openings, projections and obstructions; and
- (e) Include enlarged grab handles and grab rails to assist persons moving about, seated or entering/leaving the vehicle when wearing CBRN protective gloves and over boots.

3.4. Maintainability

All interior elements shall be coated, sealed and waterproofed to be impervious to soap and water, disinfectants and mildew.

3.5. Ratings, Dimensions and Performance

3.5.1. Vehicle Rating

The vehicle shall^(E) have the following ratings when equipped as specified:

- (a) Gross Vehicle Weight Rating (GVWR) within the inclusive range given as "GROSS VEHICLE WEIGHT RATING" in the Configuration Capability Table; and
- (b) Payload within the inclusive range given as "PAYLOAD" in the Configuration Capability table.

3.5.2. Cab and Chassis Dimensions

The cab and chassis without the van body installation shall have the following dimensions:

- (a) Wheelbase (WB) within the inclusive range given as "WHEELBASE" in the Configuration Capability Table;
- (b) Overall Length (OAL) of no more than that given as "OVERALL LENGTH" in the Configuration Capability Table;
- (c) Overall Exterior Width (OEW), including fender flare of no more than that given as "OVERALL EXTERIOR WIDTH" in the Configuration Capability Table;

- (d) Overall Height (OH) of no more than that given as “OVERALL HEIGHT” in the Configuration Capability Table; and
- (e) As part of the bid package, a diagram with dimensions, weights, etc. shall be provided.

3.5.3. Van Body Dimensions

The van body shall have the following dimensions:

- (a) Exterior Body Length (BL) within the inclusive range given as “VAN BODY LENGTH” in the Configuration Capability Table;
- (b) Exterior Body Width (BW) of no more than that given as “VAN BODY WIDTH” in the Configuration Capability Table;
- (c) Body Interior Height (BIH) within the inclusive range given as “VAN BODY INTERIOR HEIGHT” in the Configuration Capability Table; and
- (d) Minimum Headliner (clearance) Height (HH) from the top of the finished floor to the underside of the headliner where the van body meets the cab of at least the value given as “HEADLINER HEIGHT” in the Configuration Capability Table.

3.5.4. Vehicle Performance

The vehicle performance can be determined by actual tests, certified computer prediction or OEM certification. The vehicle at GVWR shall be capable of:

- (a) Sustaining on flat ground for 30 minutes at least the speed given as “30 MINUTES SUSTAINED SPEED” in the Configuration Capability Table;
- (b) Acceleration in 25 seconds from 0 km/h to at least the speed given as “25 SECOND ACCELERATION SPEED” in the Configuration Capability Table;
- (c) Maintaining at least the speed given as “3% GRADEABILITY SPEED” in the Configuration Capability Table on a 3% grade; and
- (d) Maintaining at least the speed given as “35% GRADEABILITY SPEED” in the Configuration Capability Table on a 35% grade.

3.6. Original Equipment Manufacturer (OEM) Cab and Chassis

The van body shall be built on a cab and chassis that can meet all of the requirements outlined in this section.

3.6.1. Chassis Accessories

The vehicle chassis shall^(E) be the manufacturer’s standard for a vehicle of this type and size. The chassis shall be equipped with:

- (a) Backup Camera - A rear facing colour output camera, provided as per paragraph 3.8.1(q), that activates when the vehicle is reversing. The real time, colour camera display screen **shall** be installed in the cab and have a minimum screen size of 3” x 3”. The display screen **shall** have a control allowing the operator to switch between a minimum of three (3) display inputs;

- (b) Forward-Looking Infra-Red (FLIR) Camera - The fittings, cables, etc. for a forward facing FLIR camera shall be installed including the FLIR camera, provided as per paragraph 3.8.1(r). The camera shall be mounted on the front of the cab/chassis in the area of the grille or bumper in a location that protects it from damage due to weather or flying road debris. The output of the FLIR camera *shall* be connected to the display device for the back-up camera for visibility;
- (c) Camera Display - A real time, colour camera display screen shall be installed in the cab and have a minimum screen size of 3" x 3". The display screen shall have a control allowing the operator to switch between a minimum of three (3) display inputs to include the backup camera, forward-looking infra-red camera and the interior camera (see paragraph 3.7.7(l)). The control shall indicate visually (e.g., light) which display input is selected. Final location of the display screen shall be determined at the pre-production meeting;
- (d) Tow Hooks - Two front, two center and two rear tow hooks or loops of sufficient strength and mounting to permit the recovery and tie-down of the fully loaded vehicle. The front and rear tow points shall be fully accessible without having to crawl under the vehicle;
- (e) License Plate Holders - Front and rear licence plate holders, mounted as per the manufacturer's standard;
- (f) Hidden Winch – A hidden electrical winch. The winch shall^(E) be incorporated in a hidden winch mounting kit at the front of the Cab/Chassis, as part of the front bumper. The winch shall have a removable remote control unit with a cable long enough to reach the driver side of the cab for single-handed operation;
- (g) Skid Plate - A skid plate(s) on the underside of the Cab/Chassis that provides damage protection for the engine and transmission from road debris;
- (h) Hidden Hitch - Class III hidden hitch mounts on the front and rear of the chassis. The forward hitch shall be mounted below or integral to the front bumper and the rear hitch shall be mounted below the rear van body step. The rear hitch shall have brake, signal and running light wiring suitable for towing a trailer; and
- (i) Loudspeaker - A loudspeaker behind the front grille with an amplifier, microphone and controls mounted in the cab for use by the driver or passenger. Final location of the loudspeaker amplifier, microphone and controls shall be determined at the pre-production meeting.

3.6.2. Cab

The vehicle shall be equipped with the manufacturer's standard weatherproof, insulated and sound-proofed cab. The cab shall be equipped with:

- (a) Insulation - All exterior surfaces, including the walls, floor and roof, shall^(E) be insulated to the manufacturer's standard "R" value for the climatic conditions;
- (b) Seats - Two padded water-proof seats with arm rests and high back rests equipped with seatbelts for the operator and front passenger. Fitted aftermarket water-proof seat covers are acceptable. The seats shall be horizontally and vertically adjustable without having to move from a seated position;
- (c) Kick Plates - Removable plate covers as per the manufacturer's standard design;

- (d) Steering Wheel - A steering wheel of the adjustable/tilt type. The vehicle shall have power steering;
- (e) Rear View Mirrors - Adjustable rear-view mirrors positioned for safe reverse operation. Exterior mirrors shall be heated. The non-reflective surface of the mirror shall be a matte, corrosion resistant material such as plastic or painted stainless steel. The mirrors shall be a split type with at least 25 percent convex or fully convex. Mirrors shall be a standard mirror from the OEM;
- (f) Sun Visors - Two dual panel, rotating and pivoting, interior sun visors that can be used simultaneously for forward and side sun blocking;
- (g) Windshield Wipers - Electrical power actuated windshield wipers with variable intermittent speeds;
- (h) Windshield Washers - Electrical power actuated windshield washers;
- (i) Radio - The OEM standard AM/FM radio. The radio shall include a CD player, audio jack (for portable audio devices) and a clock. The radio system shall^(E) be connected to an additional speaker installed in the ceiling of the casualty compartment above the attendant's seat. Output of this speaker shall^(E) be controlled by means of a volume and on/off switch located at the action wall (see paragraph 3.7.7(a) i);
- (j) Coat Hooks - Two coat hooks with attached Velcro straps for hanging winter coats or raincoats and securing them from swaying or falling. Location of hooks to be finalized at the pre-production meeting;
- (k) Pass-Through - An opening between the van body and the cab, sized as per paragraph 3.7.1(e);
- (l) Floor Console - The floor console shall^(E) sit between the seats and extend from the engine cowling rearward. It shall^(E) have separate compartments designed to house the items listed below:
 - i. Two zip packs (400 x 30 x 230 mm) and three map books (320 x 40 x 280 mm). The compartment shall have an open top, be colour co-ordinated with the area and have a strap(s) to hold contents in place;
 - ii. Two portable radios (pocket size: 100(H) x 70(W) x 50(D) mm);
 - iii. Two beverages. Beverage holders should be below the level of any vehicle electronics;
 - iv. Two pagers;
 - v. One cell phone;
 - vi. One fire extinguisher as per paragraph 3.8.1(j); and
 - vii. One flash light (6V).
- (m) Two-Way Radio Fittings - All the required fittings, wiring and space allocations for possible future installation of the manufacturer's standard two-way radio. The areas shall be labelled for ease of future installation;
- (n) Airbag - Driver and passenger side airbags;
- (o) Laptop Holder - A laptop holder suitable for a full-size laptop (minimum 406 mm (16 inches) wide by 305 mm (12 inches) depth) above and forward of the Floor Console;
- (p) Antenna Booster Fittings - All of the required fittings, wiring and space allocations for installation of an antenna booster;

- (q) Pull Tube - A pull tube for communication cabling shall be installed, routed from the cab in the vicinity of the Floor Console (paragraph 3.6.2(1)) to the van body in the vicinity of the antenna access point. The pull tube shall include a minimum of two (2) fish wires; and
- (r) Cell Phone Booster - A wireless cell phone booster.

3.6.3. Engine Components

The following shall^(E) be provided:

- (a) Engine - A turbocharged diesel engine with sufficient power for the performance requirements of paragraph 3.5.4;
- (b) Drain Plug - A magnetic oil pan drain plug;
- (c) Fan Shroud - A fan shroud;
- (d) Air Heater - A manufacturer's standard heated air intake system;
- (e) Anti-Theft Device - An anti-theft device that locks the steering and shift lever and allows the engine to keep running and all other mechanical and electrical functions are operable, when the driver has removed the ignition key; and
- (f) Automatic Engine High-Idle Speed Control – The vehicle shall^(E) be equipped with an engine speed control with the following properties:
 - i. A control that is pre-set so when it is activated it will increase the engine RPMs to sustain the vehicle's total continuous electrical load, and maximum heating/air conditioning output;
 - ii. The control should be "normally on"; it shall be in operating mode whenever the engine is running;
 - iii. The device shall be activated automatically whenever the voltage of the OEM or the conversion battery falls below 12.5 volts, and whenever the engine has been allowed to idle for more than 5 minutes;
 - iv. The device shall operate only when the transmission is in "PARK";
 - v. The device shall disengage when the operator depresses the service brake pedal or the transmission is placed in gear, and automatically re-engage when the service brake is released, or when the transmission is placed in "PARK";
 - vi. If the system requires that the driver take additional actions for the system to engage, the Contractor shall install a warning lamp/buzzer to indicate to the driver that additional actions are required. For example, if the driver must place the gear selector in "PARK" and set the parking brake on before the high-idle speed control will be activated, the Contractor shall install a device which will activate a flashing lamp and a buzzer to alert the driver if the parking brake is not set whenever the gear selector is placed in "PARK". The lamp shall be located on the lower dash panel to the left of the steering column and shall be labelled "SET PARKING BRAKE".

3.6.4. Lubricants and Fluids

The following applies:

- (a) The vehicle shall be serviced with standard lubricants and fluids compatible with the delivery location and season; and

- (b) The engine shall be capable of operating on OEM standard Oil.

3.6.5. Filtration System

The vehicle shall be provided with, as a minimum, the following filtration systems:

- (a) A fuel filter / water separator incorporating a thermostatically controlled heater to prevent freezing;
- (b) A replaceable dry type air filter; and
- (c) Spin off replaceable oil and fuel filters.

3.6.6. Transmission

The transmission shall be fully automatic and equipped with an overdrive system and auxiliary oil cooler.

3.6.7. Transfer Case

The transfer case shall^(E) be a two-speed transfer case activated by an electric push button system that is capable of the following modes:

- (a) Two wheel drive, high range;
- (b) Four wheel drive, high range; and
- (c) Four wheel drive, low range.

3.6.8. Fuel Tank(s)

The vehicle shall be equipped with a fuel tank or combination of tanks suited to the size of the vehicle and engine. The capacity of the tank(s) shall be at least the net fuel capacity given as "FUEL TANK(S) CAPACITY" in the Configuration Capability table.

3.6.9. Brakes

A hydraulic power brake system shall be provided that incorporates an anti-lock braking system (ABS).

3.6.10. Suspension and Axles

3.6.10.1. Suspension

The vehicle shall be equipped with an air suspension system to allow lowering of the vehicle in order to facilitate aircraft loading. The air suspension shall:

- (a) Have an integral air tank with a manually operated drain valve to permit the removal of moisture; and
- (b) An air drier to minimize the moisture build-up within the air tank.

3.6.10.2. Axles

The following applies:

- (a) The front axle shall be the manufacturer's standard; and
- (b) The rear axle shall have a limited slip differential and a heavy duty sway bar.

3.6.11. Tires and Wheels

The following applies:

- (a) The vehicle shall be equipped with the same tires on all wheels, including the spare wheel assembly, that are marked with an indication of mud and snow performance such as “M+S” and the Mountain/Snowflake symbol for severe snow performance;
- (b) The vehicle shall be equipped with a spare wheel assembly provided as per paragraph 3.8.1(e); and
- (c) The rear axle shall have dual wheels.

3.6.12. Cab and Chassis Corrosion Protection System

The following shall be provided for the cab and chassis:

- (a) In addition to standard factory rust proofing, aftermarket rust proofing *shall* be provided. The treatment will normally be applied within the first year of service. 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 *shall* 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. Non toxic.
 - vi. Minimal dripping.
- (c) Written proof of a twelve hour ASTM B117 salt spray endurance test certification by an independent test laboratory. Krown Rust Kontrol and Rust Check products have been accepted as certified, proof not required; and
- (d) The application includes, but is not limited to the underside of fenders and hood, enclosed and boxed-in sections, seams, mouldings, crevices, weld points, under-body and exposed exterior brackets.

3.7. Van Body

For clarification purposes, please refer to the attached figures (Appendix 2) which depict the desired layout. Where items are not shown in the diagrams, they shall be located as per this section.

3.7.1. Van Outer Body Construction

The van shell shall^(E) be made of aluminum and have:

- (a) Edges sealed with an adhesive sealant such as “silaprene”;
- (b) An outer roof and floor-pan that are each constructed of a single piece of metal;
- (c) Rounded edges as commercially available;

- (d) Integral Rain Gutter - An integral rain gutter at the roof perimeter extrusion to permit run-off at the body corners. A surface mounted, mechanically fastened rain gutter moulding in this area is not acceptable;
- (e) Pass-Through - A flexible, weather-tight device such as a bellows between the cab and van body to allow communication and passage of items (minimum 152 mm (16 inches) high and 305 mm (12" inches) wide). The pass-through shall have an air-tight door in accordance with section 3.7.3(i); and
- (f) Rear Wheel Housings - Rear wheel housings that are constructed of a self-cleaning, heavy material capable of deflecting water and objects thrown by the tires. The rear wheel housing shall be equipped with heavy-duty sound-proofing.

3.7.2. Vehicle Protection Accessories

The vehicle shall^(E) be equipped with the following accessories:

- (a) Fenders - Fenders over all wheels and tires. Fender extension(s) shall be provided where these wheels extend beyond the body of the vehicle;
- (b) Front Mud Flaps - Mud flaps for the front wheel openings made of the heaviest duty aluminum diamond tread plate commercially available or another material of equivalent performance. The portion of the mud flap that extends below the vehicle front fender shall be made of heavy duty rubber. Front mud flaps shall cover the full width of the wheel well;
- (c) Rear Mud Flaps - Mud flaps for the rear wheel openings made of heavy duty rubber or another material of equivalent performance. Rear mud flaps shall cover at least the full width of the rear wheel;
- (d) Running Board - A running board on each side of the cab capable of supporting a weight of at least 225 kg (496 lbs). The running boards shall run from the front mud guard to the van body and have a non-slip surface;
- (e) Stone Guard - The manufacturer's standard stone guard, extending from the cab to the front corners of the body. The guard shall be made of the heavy-duty aluminum diamond tread plate or another material of equivalent performance;
- (f) Rear Step Bumper - A rear step bumper that shall:
 - i. Support a weight of minimum 225 kg (496 lbs);
 - ii. Be at least 240 mm (9.4 inches) wide and run the width of the rear door opening;
 - iii. Hinge or pivot with the most durable commercially available hardware to permit attendants to move closer for loading and unloading;
 - iv. Maintain the OEM ground clearance and step bumper angle of departure;
 - v. Be protected by corner bumper frames that are capable of absorbing an impact of at least 8 km/h (5 mph); and
 - vi. Have protruding rubber bumperettes on the rear vertical face of the stepping surface and protection for locations where the legs of attendants could contact the frame or bumper when loading and unloading.

3.7.3. Van Body Doors

Van body doors shall open outwards unless otherwise stated and be constructed as per paragraphs 3.7.4 (Exterior Doors) and 3.7.5 (Interior Doors), as applicable. The van body shall^(E) have the following doors:

- (a) Rear Doors – Double doors on the rear van body wall. The doors shall be sized 1/3-2/3 that are hinged at the outer portions of the opening and open to the left and right respectively to allow unobstructed passage between the outside and the passenger compartment. The 2/3 portion of the double door shall be located on the road-side of the vehicle;
- (b) Side Exit Door – Single door hinged to the right located behind the Exterior Curb-Side Front Equipment Compartment Door on the curb-side of the van body to allow passage between the outside and the passenger compartment;
- (c) Exterior Electrical Compartment Door - Single door hinged to the left located at the front of the road-side of the exterior of the van body to allow access to the electrical compartment described in paragraph 3.7.7(b);
- (d) Exterior Oxygen Compartment Door – Single door hinged to the left located at the front of the road-side of the exterior of the van body, behind the Exterior Electrical Compartment Door, to allow access to the oxygen compartment described in paragraph 3.7.7(c);
- (e) Interior Oxygen Access Door – An access door at the rear of the Oxygen Compartment of sufficient size to allow access to the oxygen compartment for reading the pressure gauge and turning on the valve as described in paragraph 3.7.7(c);
- (f) Exterior Curb-Side Front Equipment Compartment Door – Single half-door hinged to the right located at the front of the curb-side of the exterior of the van body to allow access to the portable generator compartment as described in paragraph 3.7.7(d);
- (g) Exterior Curb-Side Rear Equipment Compartment Door – Single door hinged to the right located at the rear of the curb-side of the exterior of the van body to allow access to the adjustable shelving unit as described in paragraph 3.7.7(f);
- (h) Exterior Full-Height Backboard Compartment Door – Single, full-height door hinged to the left located at the rear of the road-side of the exterior of the van body to allow access to the full-height backboard compartment as described in paragraph 3.7.7(i);
- (i) Pass-Through Door – An opening as per paragraph 3.7.1(e) with a door capable of an air-tight seal in order to seal off the van body from the cab to facilitate positive/negative air pressure in the van body. The door shall be hinged to the right and have a plastic or glass insert installed in the door that permits clear visibility between the cab and the van body; and
- (j) Thermostabilizer Storage Compartment Door - Single door hinged to the right located at the front of the road-side of the interior of the van body to allow access to the Thermostabilizer Storage Compartment as described in paragraph 3.7.7(j). The door shall be fitted with hasps that permit locking with a padlock;

3.7.4. Van Body Exterior Door Construction

The exterior van body doors described in paragraph 3.7.3 shall^(E) have:

- (a) Maximum construction commonality with the van body;
- (b) Positive seals that permit positive/negative pressurization of the van body;

- (c) Panel construction that is easily removed and replaced to allow maintenance of door locks and hardware;
- (d) Suitable hold-open devices for the type and size of the door and door stops to prevent damage to body sides;
- (e) Door release handles that are flush mounted;
- (f) Heavy-duty door locks designed for exterior use. All locks shall be keyed alike;
- (g) A secondary system that will allow the doors to be opened should the main door lock mechanism(s) fail;
- (h) Hinges, latches and door checks that do not protrude into the access area;
- (i) Rear Doors as per paragraph 3.7.3(a) which shall^(E):
 - i. Have dual doors with vertical hinges that provide a minimum clear opening of 1200 x 1270 mm (47.2 x 50 inches);
 - ii. Each door shall have an external flush mounted release handle that allows the doors to be opened independently;
 - iii. Open to at least 150°. Where OEM check straps prevent this capability, they shall be completely removed and replaced with a metal door holder such as Cast Products model C10870-1 and a tarp strap. If such a holder is installed, it shall be bolted to a point on the vehicle body that is structurally sound or reinforced;
 - iv. Have a rubber tarp strap of at least 560 mm (22.0 inches) with S hooks installed in each of the lower outer corners of the doors. The straps are to provide additional security when hooked to the outside ends of the rear bumper; and
 - v. Have a fixed window made of automotive grade laminated glass in each door with 20% level of glass tinting to reduce solar heating effects. Should aftermarket tinting be used, it shall be a metallic film with 20% "Visible Light Transmission" of a smoke charcoal color. The windows shall be of the maximum practical size. The windows shall^(E) be equipped with blackout curtains secured with hook and loop fastener (such as VELCRO®) that prevents interior light from being seen outside.
- (j) A Side Door as per paragraph 3.7.3(b) which shall:
 - i. Have a quick close door holder; and
 - ii. Have a window made of automotive grade laminated glass in each door with 20% level of glass tinting to reduce solar heating effects. Should aftermarket tinting be used, it shall be a metallic film with 20% "Visible Light Transmission" of a smoke charcoal color. The window shall be of the maximum practical size and shall not open. The window shall^(E) be equipped with a blackout curtain secured with hook and loop fastener (such as VELCRO®) that prevents interior light from being seen outside.

3.7.5. Van Body Interior Door Construction

The van body interior doors shall:

- (a) Be designed and built to avoid unwanted opening in transit or as a result of a vehicle collision;
- (b) Have interior doors as per paragraphs 3.7.3 (e), (i) and (j) that shall:
 - i. Have interior locks and release handles that allow the doors to be locked or unlocked without using a key;

- ii. The pass-through door shall have a release handle on both sides of the door, and no locking mechanism; and
- iii. Have one or more windows made of lightly tinted, transparent, non-shattering material.

3.7.6. Van Body Floor Construction

The van body floor shall^(E):

- (a) Be at the lowest level permitted by the chassis/body;
- (b) Be reinforced where necessary to support a load of at least 735 kg/m² (151 lb/ft²);
- (c) Have a heavy duty safety floor covering for the casualty compartment that is made of LONCOIN®, and is bonded to the van body floor; and
- (d) Have protective trim to prevent fluid seepage under cabinets and walls.

3.7.7. Shelving, Storage and Mounting Layout

Shelves and storage units within the van body shall be made of aluminum. The van body shall^(E) have:

- (a) Action Wall – An action wall on the road-side of the van body that contains:
 - i. An action area towards the rear of the van body that is at a level accessible by the attendant when seated in the attendant's chair, and runs approximately 1/2 the length of the van body; and
 - ii. Equipment hooks at the ceiling level on the road side wall over the action area suitable for hanging three fabric equipment organizer rolls (such as the Medic Trauma Sheet (Combat Casualty Response Bag) NSN 6515-01-540-7603) with dimensions (each) of 1067 mm (42 inches) high, 559 mm (22 inches) wide, and 101 mm (4 inches) thick;
- (b) Electrical Compartment - An electrical equipment compartment on the front of the road-side of the van body, forward of the Oxygen Compartment, accessible from the exterior by a door as per paragraph 3.7.3(c);
- (c) Oxygen Compartment - An oxygen compartment for the oxygen system described at paragraph 3.7.11 on the front of the road-side of the van body, behind the Electrical Compartment, accessible from the exterior by a door as per paragraph 3.7.3(d) and from the interior by an access door as per paragraph 3.7.3(e);
- (d) Portable Generator Compartment - A half-height equipment compartment on the lower portion of the front of the curb-side of the van body accessible from the exterior by a door as per paragraphs 3.7.3(f);
- (e) Equipment Compartment (Upper Front Curb-Side) - An equipment compartment on the upper portion of the front of the curb-side of the van body, accessible from the interior by a cargo net;
- (f) Equipment Compartment (Rear Curb-Side) - An equipment compartment on the rear of the curb-side of the van body, accessible from the interior by a cargo net and from the exterior by a door as per paragraph 3.7.3(g). The lower portion of the compartment shall be suitable for mounting/storing the following equipment:
 - i. Spare Wheel Assembly Mount - A spare wheel assembly mount with replacement tools, provided as per paragraph 3.8.1(e) and (f);
 - ii. Extrication Tool Storage - Extrication tools provided as per paragraph 3.8.1(g); and

- iii. Road Flare Case Securement - The manufacturer's standard quick release bracket for the road flare case provided as per paragraph 3.8.1(k);
- (g) Under-Bench Equipment Compartment - An under-bench storage compartment under the squad bench on the curb-side of the van body, accessible from the interior by lifting the hinged passenger bench;
- (h) On-Bench Equipment Storage - A bench storage area on the squad bench on the curb-side of the van body, accessible through the removable cargo net mounted around the bench area;
- (i) Full-Height Backboard Compartment - A full-height backboard compartment on the rear of the road-side of the van body that is accessible from the exterior by a door as per paragraph 3.7.3(h);
- (j) Thermostabilizer Storage Compartment - A storage compartment accessible from the interior by a door as per paragraph 3.7.3(j);
- (k) Clock Mount - A clock mount on the rear of the interior of the van body above the rear doors that allows the clock, provided as per paragraph 3.8.1(c), to be mounted/dismounted for battery replacement without the use of tools;
- (l) Interior Camera Mount - A camera mount on the rear of the interior of the van body above the rear doors that allows the camera, provided as per paragraph 3.8.1(d), to view the interior of the van body. The output of the camera shall be connected to the camera display in the cab (see paragraph 3.6.1(c));
- (m) Mounting Location - A dedicated mounting location for possible future installation of a wall mounted, cam-lock operated rail type restraint system for casualty care and monitoring devices;
- (n) Sink System - A sink and associated system shall be fitted that provides hot and cold water. The sink shall be located on the work surface area below the action wall. The system shall have a minimum reservoir capacity of 80 litres (17.6 gallons (CA)) with an on-demand electric or fuel-fired heater, and a waste water tank with a minimum capacity of 80 litres (17.6 gallons (CA)). The system shall have external connections to permit filling the fresh water reservoir and draining the waste water tank;
- (o) Dedicated Container Location - A dedicated location for the waste, hazardous waste, glove and sharps containers (provided as per paragraphs 3.8.1(h) and (i)) in the casualty compartment that is convenient to access when working in the area of the stretchers. The sharps container shall be mounted on a safety bracket such as Becton Dickinson #366021 "Safety Bracket";
- (p) Incubator Tie-Down - A fixture to secure the rear tie-downs for incubators. Location to be determined at the pre-production meeting;
- (q) Cylinder Securement Fixture(s) - The fixture(s) required to secure two jumbo "D" cylinders located on the inside of the curb-side rear door. The fixture(s) shall be appropriate for storing steel or aluminum cylinders;
- (r) Intravenous (IV) Securement - Two wall or ceiling mounted IV hooks with Velcro securing straps for IV pouch solutions at the midsection of each litter location (for a total of four hooks);
- (s) Fire Extinguisher Securement - The manufacturer's standard quick release bracket for the fire extinguisher provided as per paragraph 3.8.1(j) located adjacent to a door in the van body;

- (t) Radio Antennae Access - Flush mounted circular ports in the headliner to provide access for servicing the radio antennae; and
- (u) Command and Control Area - The command and control area shall have the following components:
 - i. File Cabinet - A two drawer legal sized file cabinet capable of being locked with a padlock;
 - ii. Drawers - A bank of six (6) drawers for storage of miscellaneous office supplies on the upper road-side of the van body above the command and control work area;
 - iii. The van body controls as per paragraph 3.9.2;
 - iv. Narcotic Safe - A fire-resistant, single door, double key lock narcotic safe with an internal fixed shelf. The safe shall be constructed of minimum 20 gauge steel and have an minimum internal size of 305 mm (12 inches) high, 203 mm (8 inches) wide and 356 mm (14 inches) depth. The safe shall be securely fixed in place to prevent tampering or non-authorized removal;
 - v. Laptop Shelf (Foldable) - A foldable shelf attached to the inside of the Oxygen Compartment that is secure in the folded position and permits the use of a laptop computer in the raised position;
 - vi. The fittings for the two way radio as per paragraph 3.6.2(m); and
 - vii. The fittings for a cellular phone antenna complete with an externally mounted antenna;
- (v) As part of the bid package, a dimensioned layout drawing of the van body detailing storage areas allocated to each item shall be provided.

3.7.8. Shelving and Storage Construction

The shelving and storage in the Van body shall have the following components:

- (a) The action area as described in paragraph 3.7.7(a)i shall:
 - i. Provide a work surface for the attendant seated in the attendant seat that is capable of retaining loose material and be easy to clean. This could be achieved with a raised lip that can fold down or by having a recessed, tub-shaped counter;
 - ii. Incorporate on the wall near the work surface (the action wall):
 - a. The main oxygen outlet as per paragraph 3.7.11(b)i;
 - b. The suction apparatus and wall mount as per section 3.7.12;
 - c. The IV warmers as per paragraph 3.11.3; and
 - d. The vital signs monitor and wall mount as per paragraph 3.8.1(l);
 - iii. Incorporate restraining straps for a medical box located at the rear-most part of the action area; and
 - iv. Incorporate the defibrillator platform described in paragraph 3.8.1(n) located in front of the restraining straps;
- (b) Include an oxygen cylinder storage compartment as per paragraph 3.7.7(c) that shall:
 - i. Have a cylinder mounting cradle suitable for storing Types M and MM oxygen cylinders made of aluminum or steel;
 - ii. Be designed for simple cylinder transfer and changeover using only simple hand tools; and
 - iii. Have a protective coating on the mounting cradle to prevent damage to aluminum cylinders.
- (c) Storage compartment as per paragraph 3.7.7(d) suitable for storing a portable electrical generator (such as the Cummins Onan RV QD 6000 Diesel Generator). The compartment shall have a

slide-out tray for the generator that facilitates maintenance and operation of the generator in the outer position;

- (d) Storage compartment as per paragraph 3.7.7(e) that shall:
 - i. Have three shelves with a minimum stowage size (each) of 2286 mm (90 inches) wide, 635 mm (25 inches) depth and 559 mm (22 inches) high;
- (e) Storage compartment as per paragraph 3.7.7(f) that shall:
 - i. Have three (3) shelves. The shelves shall be adjustable or removable and capable of supporting loads of 100 kg/m² (20.5 lb/ft²);
 - ii. Be capable of holding:
 - a. One medical pouch with dimensions (LxWxH) of 610x460x360 mm (24x18x14 inches); and
 - b. One rescue bag with dimensions (LxWxH) of 600x600x300 mm (23.6x23.6x11.8 inches);
- (f) A vented storage compartment as per paragraph 3.7.7(i) that can accommodate two long backboards with runners stored vertically;
- (g) A two-level storage compartment as per paragraph 3.7.7(j) suitable for stowing two Thermostabilizer storage containers that shall:
 - i. Have two shelves with a minimum stowage size (each) of 559 mm (22 inches) wide, 508 mm (20 inches) depth and 813 mm (32 inches) high; and
 - ii. Have a slide-out tray on each shelf that permits full access to the top lid of the Thermostabilizer unit; and
- (h) Vents to allow the flow of climate controlled air to all closed compartments.

3.7.9. Passenger Securement Layout

The passenger securement layout shall^(E) include:

- (a) Casualty Loading System - A casualty loading system centrally mounted oriented with the casualty's head pointing toward the cab. The system shall be capable of handling two casualties in stacked berths on standard decontamination litters (NSN 6530-01-432-5114). A manual loading system similar to the current in-service system in the Canadian Forces LSVW Ambulance is preferred. The loading system shall be installed so that it has a minimum clearance of 150 mm (5.9 inches) from any surface or obstruction and a minimum of 330 mm (13 inches) from the rear facing attendant's seat;
- (b) Attendant's Seat - An attendant's seat located at the head of the casualty loading system on a seat pedestal of at least 250 mm (9.8 inches) in height;
- (c) Command and Control Seat - A command and control seat located in the command and control area on a seat pedestal of at least 250 mm (9.8 inches) in height;
- (d) Squad Bench - A squad bench located along the curb-side wall with a height of at least 405 mm (15.9 inches) and designed to provide an aisle space of at least 335 mm (13.2 inches). The bench shall be suitable for its three uses:
 - i. A lid for the storage unit located under the bench;
 - ii. A storage surface for use with the squad bench cargo netting around the perimeter of the bench provided as per paragraph 3.8.1(o); and
 - iii. A seat for up to three passengers.

3.7.10. Passenger Securement Construction

The passenger securement shall include:

- (a) The casualty loading system shall be mounted securely for safe use of the system while loading/unloading casualties as described in paragraph 3.7.9(a). Installation shall include:
 - i. Sufficient tie-down or securing devices to prevent movement of the litters during transit; and
 - ii. One or more fixtures to secure the rear tie-downs for incubators (as per paragraph 3.7.7(p));
- (b) An attendant's seat, positioned as per paragraph 3.7.9(b), that shall be:
 - i. A non-padded water-proof seat with arm rests and a high back rest equipped with a seatbelt (that uses materials and design in the spirit of the CMVSS regulations for passenger restraint) attached by a D-ring to allow for decontamination and rapid replacement of the seat belt straps;
 - ii. Horizontally and vertically adjustable without having to move from a seated position; and
 - iii. Capable of pivoting 180° from facing the rear of the vehicle to the front of the vehicle, pivoting so that the passenger faces the curb-side of the vehicle. The seat shall be lockable in both the forward or rear facing positions;
- (c) A Command and Control seat, positioned as per paragraph 3.7.9(c), that shall be:
 - i. A non-padded water-proof seat with arm rests and a high back rest equipped with a seatbelt (that uses materials and design in the spirit of the CMVSS regulations for passenger restraint) attached by a D-ring to allow for decontamination and rapid replacement of the seat belt straps;
 - ii. Horizontally and vertically adjustable without having to move from a seating position; and
 - iii. Capable of pivoting 180° from facing the rear of the vehicle to the front of the vehicle, pivoting so that the passenger faces the curb-side of the vehicle. The seat shall be lockable in both the forward or rear facing positions;
- (d) A squad bench, positioned as per paragraph 3.7.9(d) that shall:
 - i. Have a full length hinged bench top for access to the under-bench storage area;
 - ii. Have a gas-filled hold open device such as a Jedco "star-lock" to support the bench in the open position and one or more latches to hold the bench in a closed position;
 - iii. Have seating positions for three passengers;
 - iv. Each seating position shall include a non-padded seat made of a fire retardant, water-proof, washable, non-absorbent material;
 - v. Each seating position shall include a seat belt that uses materials and design in the spirit of the CMVSS regulations for passenger restraint. Seatbelts shall be secured by removable D-rings to allow for decontamination and rapid replacement of the seat belt straps; and
 - vi. Have a cargo net at the front of the squad bench for protection of passengers in the event of a rapid deceleration. The net shall be easily removable for decontamination.

3.7.11. Oxygen System

The van body shall have a hospital type piped oxygen system capable of storing and supplying medical oxygen. The system shall include:

- (a) Storage/securement as per paragraphs 3.7.7(c) and (q);

- (b) Two oxygen medical gas recessed outlets such as MEDAES model #2417806 D.I.S.S. III which shall be located:
 - i. On the action wall at the forward end of the casualty loading system in line with the lower berth; and
 - ii. Near the top of the curb-side wall, located above the head of the forward bench seat in line with the casualty loading system upper berth;
- (c) Colour coding of all components to indicate oxygen; and
- (d) Safety protection for both outlets from impact such as a cover for when not in use.

3.7.12. Suction Aspiration System

The van body shall be equipped with a portable electrically powered suction aspiration system, as described in paragraph 3.8.1(m) including a wall mount located on the action wall at the forward end of the casualty loading system in line with the lower berth.

3.8. Accessories

3.8.1. Standard

The following vehicle accessories shall be supplied by the contractor:

- (a) CPR Board - One CPR board;
- (b) Backboards - Two Laerdal BaXstrap backboards with attached straps and head beds;
- (c) Clock - One battery operated, analogue or digital clock (to be confirmed at pre-production meeting) with a second sweep hand with a face diameter of at least 203 mm (8 inches), mounted as per paragraph 3.7.7(k);
- (d) Interior Camera - One miniaturized surveillance camera with a clear protective cover, mounted as per paragraph 3.7.7(l). The camera shall have a recording device that uses digital media compatible with Microsoft Windows, located on the action wall or the command and control area;
- (e) Wheel Assembly - One spare wheel equipped with mud/snow tires as per paragraph 3.6.11 and mounted as per paragraph 3.7.7(f) i;
- (f) Tire Changing Tools - All tools required for changing tires and a heavy-duty jack capable of lifting the loaded vehicle and stored as per paragraph 3.7.7(f) i;
- (g) Extrication Tools - Extrication tools including: an extrication combination tool, a pry bar, bolt cutters and a tool pouch, stored as per paragraph 3.7.7(f) ii;
- (h) Waste Containers - Two containers of a minimum capacity of 5 L (1.32 US gal), one approved for waste disposal and the other for hazardous waste disposal. The containers shall be mounted as per paragraph 3.7.7(o);
- (i) Sharps Containers - One sharps container with a safety design such as Becton Dickinson #367201 "Vacutainer", mounted as per paragraph 3.7.7(o);
- (j) Fire Extinguishers - Two 2.3 kg (5 lb) ULC approved and rechargeable fire extinguishers with a minimum rating of 3A10BC equipped with a pressure gauge and service inspection tag, one

mounted in the front cab floor console (paragraph 3.6.2 vi) and the van body bracket (paragraph 3.7.7(s));

- (k) Road Flares - Four 20-minute type spiked red warning highway flares in a red, cylindrical screw top flare case mounted as per paragraph 3.7.7(f)iii;
- (l) Vital Signs Monitor - Two vital signs monitors, such as the Propaq Encore Vital Signs Monitor or current equivalent in use by the Canadian Forces Medical System at time of purchase;
- (m) Suction Aspiration System - Two Laerdal Suction Units (LSUs) including one wall bracket with AC and DC power cords, mounted as per paragraph 3.7.12;
- (n) Defibrillator and Platform - A Zoll M-series automatic external defibrillator and swivel platform for the defibrillator unit that is mounted in the action area;
- (o) Cargo Netting - Removable, heavy duty cargo netting for the storage areas described in paragraph 3.7.7(e), (f) and (h) with a sufficient number of mounting points on the floor and ceiling to prevent items slipping through the netting. Netting shall be easily removable for decontamination;
- (p) Spotlight - A portable spotlight with a cord of a minimum of 3.7 m (12 ft) with a connector that can be plugged into a 12 volt power socket outlet. The light shall be equipped with a trigger-like switch for on/off activation. The spot light shall be non-sparking and explosion proof;
- (q) Backup Camera - A weatherproof camera mounted on the rear of the van body;
- (r) FLIR Camera - A " Forward-Looking Infrared camera such as the "FLIR Pathfinder IR;
- (s) Winch - A hidden electrical winch (such as the WARN®)to include:
 - i. A pulling capacity of at least 4090 kg (9,000 lbs); and
 - i. A winch accessory kit to include a Recovery Strap, Gloves, Shackle, Choker Chain, Snatch Block and Tree Trunk Protector in a soft-shell case;
- (t) Hitch - Two Class III hidden hitch mounts including tow bar(s). The tow bar(s) shall accommodate pintle and ball hitches.

3.9. Controls

The vehicle shall be equipped with the manufacturer's standard controls, with the addition of those items as amplified in the following sections.

3.9.1. Cab Controls

The control panel design shall favour the driver as primary user but allow ready access to control functions from the passenger seat. As a minimum, the following controls shall be situated in the cab and shall^(E) be located on the control panel unless otherwise indicated:

- (a) Disable Switch - 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 Flood Lamp/Driving light per paragraph 3.10.1(c) that are controlled independently;
- (b) Cab Map Light Switch - A manually operated switch to activate the map light described in paragraph 3.10.1(e);

- (c) Siren Controls – The manufacturer’s standard controls for the siren and all of the lights;
- (d) Anti-Theft Device Switch – A switch for the system described in paragraph 3.6.3(e);
- (e) Backup Alarm Switch – A switch to disable the backup warning signal for silent backing in a hospital area. The switch shall reset automatically after a 25 – 35 second delay;
- (f) Light Switch – A switch for the curb-side bank of rear casualty compartment lights;
- (g) Spare Switch - At least one spare switch, wired to a spare circuit breaker;
- (h) Kick-Out Switch – A control to release all power cords connected to the vehicle;
- (i) Vehicle Boost Switch – A switch to allow vehicle chassis boosting from van body batteries;
- (j) Van Body Pressure Control - Controls to operate the van body positive/negative pressurization system; and
- (k) Suspension Drop Switch - A switch to raise/lower the vehicle chassis for aircraft loading/unloading.

3.9.2. Van Body Controls

All controls shall be recessed or otherwise protected from accidental operation by the attendant’s knees or by material on the work surface. The following controls, as a minimum, shall be situated in/on the van body, located on the action wall unless otherwise indicated:

- (a) Passenger Door Light Switches - Switches for operating the interior lights and the rear facing floodlights mounted on one of the rear doors and the side passenger door. The switches shall reset when the doors are closed;
- (b) In-Cabinet Light Switch - A switch with settings high/off/low located in each exterior door of any cabinet accessible from the interior and exterior that controls the lighting of that cabinet;
- (c) Light Disable Switch - Single manually operated switch to disable all light sources inside the van body;
- (d) Cabinet Light Switch – A switch to control the lighting of all interior and interior/exterior cabinets described in paragraph 3.10.2(f);
- (e) Curb-Side Light Switch – A switch for the curb-side bank of interior ceiling lights (paragraph 3.10.2(e)) with settings high/off/low;
- (f) Road-Side Light Switch – A switch for the road-side bank of interior ceiling lights (paragraph 3.10.2(e)) with settings high/off/low;
- (g) Red Light Switch – A switch for the center bank of interior red ceiling lights (paragraph 3.10.2(h)) with settings high/off/low;
- (h) Reading Light Switch – A switch for the attendant’s action wall reading light switch (paragraph 3.10.2(g));

- (i) Thermostat Control - A thermostat control for the temperature in the van body located on the action wall that shall:
 - i. Allow control of the cabin temperature from 15 to 23°C (59 to 74 °F);
 - ii. Have a timer that allows the thermostat to be set on a seven-day schedule for a minimum seven days in advance; and
 - iii. Have an override switch that turns the heater on, independent of thermostat setting;
- (j) Heater Fan Speed Switch - A two-speed switch located on the action wall that operates the heater fan in three settings: high, low and off positions;
- (k) Climate Control Selector - A switch to select whether the heater or air conditioner is used;
- (l) Spare Switch - At least one spare switch, wired to a spare circuit breaker; and
- (m) Van Body Pressure Control - Controls to operate the van body positive/negative pressurization system.

3.9.3. Instruments

Instruments *shall* be readily visible to the operator. Instrument lamps *shall*^(E) have a dimming capability. The following instruments, as a minimum *shall*^(E) be provided:

- (a) Tachometer - A tachometer;
- (b) Odometer - A metric odometer and speedometer;
- (c) Temperature Gauge - A gauge to display engine coolant temperature;
- (d) Pressure Gauge - A gauge to display engine oil pressure;
- (e) Voltmeter(s) - One or several voltmeters to monitor the voltage of the OEM and the conversion batteries. An acceptable alternative to the voltmeter(s) are the warning lights described in paragraph 3.10.3(b); and
- (f) Ammeter - An ammeter connected to the alternator output to monitor the total charging system load. An acceptable alternative to the ammeter is the warning lights described in paragraph 3.10.3(b).

3.10. Lighting

The vehicle shall be supplied with the manufacturer's standard lighting, using LED lights where available, as amplified in the following sections.

3.10.1. Cab Lighting

The cab of the vehicle shall be equipped with, as a minimum, the following lights:

- (a) Headlights - Heavy duty headlights. In contravention to the CMVSS, the day time running lights shall be equipped with an "OFF" switch;
- (b) Brake, Turn, Hazard and Clearance - The manufacturer's standard brake, turn, hazard and clearance lights;
- (c) Flood Lamp / Driving Light - One light mounted on each side of the front of the vehicle to provide illumination to the area directly to the front. These lights shall operate independently of the disable switch of paragraph 3.9.2(c);

- (d) Dome Light – Manufacturer’s standard dome light for general illumination; and
- (e) Map Light – Manufacturer’s standard map light(s) for illumination of paperwork held by the operator and passenger in the cab. Gooseneck type swivelling spotlight type map lights are not acceptable.

3.10.2. Van Body Lighting

The van body shall be equipped with, as a minimum, the following lights:

- (a) Brake/Turn/Tail Lights – Heavy duty brake/turn/tail lights that operate in conjunction with the lights in paragraph 3.10.1(b);
- (b) Backup Lights – Heavy duty backup lights mounted on each side of the rear of the van body to provide illumination to the area directly to the rear;
- (c) Clearance Lights – Heavy duty clearance lights, in red and amber colours, that operate in conjunction with the lights in paragraph 3.10.1(b);
- (d) Side Turn Signals – Turn signals mounted on the side of the van body that operate in conjunction with the tail lights in paragraph 3.10.2(a);
- (e) Casualty Compartment Lighting – The vehicle shall be equipped with white casualty compartment LED lighting arranged in two banks, one on either side of the roof centerline, mounted as close to flush as possible. The lights shall:
 - i. Be operated by two switches in passenger compartment as per paragraph 3.9.2(e) and (f);
 - ii. Have the road-side bank of casualty compartment lighting activated automatically at the low setting when any casualty compartment door is opened; and
 - iii. Have the curb-side bank of casualty compartment lighting activated by a switch in the cab as per paragraph 3.9.1(f);
- (f) Casualty Compartment Cabinetry Lighting – Each interior storage cabinet shall have at least one LED cabinet light which shall:
 - i. Be mounted forward in the cabinet so as to not be covered when the cabinet is filled with supplies;
 - ii. Be controlled by a switch in the passenger compartment as per paragraph 3.9.2(d);
 - iii. Be controlled by door-mounted switches as per paragraph 3.9.2(b) in all cabinets that are accessible from the interior and exterior of the cab; and
 - iv. Be equipped with white/red flip lenses for subdued lighting in all cabinets that are accessible from the interior and exterior of the cab;
- (g) Action Wall Reading Light – An LED light for lighting up the action wall. The light shall be powered at all times as per paragraph 3.11.6; and
- (h) Van Body Subdued Lighting – The vehicle shall be equipped with red casualty compartment LED lighting on the centerline of the casualty compartment ceiling arranged in a central row mounted as close to flush as possible. The lights shall:
 - i. Be operated by a switch in passenger compartment as per paragraphs 3.9.2(g); and
 - ii. Be controlled such that when the red lights are turned on, all sources of white light in the van body shall be turned off.

3.10.3. Warning Lights

The driver console shall^(E) contain, as a minimum, the following warning lights:

- (a) Door Ajar Light – A flashing red warning light to indicate when any of the casualty compartment or exterior storage doors is ajar;
- (b) Voltmeter/Ammeter Alternative - If the voltmeter(s) and ammeter are not supplied as per paragraphs 3.9.3(e) and (f), the Contractor shall provide three separate warning lights on the driver's console which flash red whenever one or more of the following conditions is met:
 - i. The alternator is not providing an output sufficient to power the electrical system and charge the batteries;
 - ii. The conversion battery voltage drops below 11.5 volts; and
 - iii. The OEM cranking battery(ies) voltage drops below 11.5 volts;
- (c) Low Oil Pressure Light – A warning light for low engine oil pressure;
- (d) High Coolant Temperature Light – A warning light for high engine coolant temperature; and
- (e) Van Body Positive/Negative Pressurization Light - A warning light to indicate that the positive/negative van body pressurization system is in operation, including the mode of operation (i.e., positive or negative pressure).

3.11. Electrical System

The vehicle shall^(E) be equipped with the manufacturer's standard electrical system for the cab and van body conversion. The vehicle shall be equipped with an isolator that allows all batteries to be charged simultaneously, but does not allow the batteries to draw from each other.

3.11.1. Incubator Receptacles

Two incubator plug-ins, installed at the forward end of the casualty loading system in line with the lower berth but not on the action wall, shall be provided. The incubator plug-ins shall be:

- (a) Flush mounted; and
- (b) 12 volt polarized outlets that are powered at all times as per paragraph 3.11.6.

3.11.2. Socket-Type Outlets

Three 12 volt, polarized socket-type outlets shall be provided. The outlets shall be powered at all times as per paragraph 3.11.6. The outlets shall be located as follows:

- (a) One at the forward end of the casualty loading system in line with the lower berth but not on the action wall; and
- (b) Two above the command and control work area.

3.11.3. Intravenous (IV) Warmers

The vehicle shall be equipped with two IV warmers, such as the Koolatron system, located as per paragraph 3.7.8(a) ii.c.

3.11.4. Batteries

The vehicle and van body shall be equipped with heavy-duty maintenance free batteries (such as Yellow Top OPTIMA Gel Cell) with the following properties:

- (a) The total battery capacity at -28.9° C (-20° F) shall provide at least the number of cold cranking amperes as that given as “BATTERY CAPACITY” in the Configuration Capability Table;
- (b) Have the battery locations labelled “Conversion Battery” and “Chassis Battery” as applicable; and
- (c) The batteries shall^(E) be located under the hood. If this is not possible, the contractor shall house the batteries in a battery box that is lockable, corrosion resistant, ventilated and electrically insulated. The battery box shall^(E) be designed to permit easy access (without the use of tools) for daily inspections, periodic maintenance and battery charging.

3.11.5. Alternators

The vehicle shall be equipped with two heavy-duty alternators, approved or supplied by the OEM, each with the following properties:

- (a) An output of at least that given as “ALTERNATOR (EACH)” in the Configuration Capability Table; and
- (b) Intended for use on 12 VDC charging systems.

3.11.6. Main Conversion Power Switching

Stopping the engine shall trigger the Automated Electrical Shutdown device, which halts delivery of electricity to the vehicle conversion electrical system. The following items are exceptions and shall continue to be powered when the engine is not running:

- (a) Incubator receptacles;
- (b) Two-way radio power supply;
- (c) Socket-type outlets; and
- (d) Action wall reading light.

3.11.7. Electrical Control Centre (ECC)

The contractor shall provide an electrical control centre, located in the Electrical Compartment (3.7.7(b)) that shall^(E):

- (a) Contain all electrical components;
- (b) Be clearly identified, sealed and designed for easy access by maintenance personnel; and
- (c) Have the location of each device permanently labelled in the ECC (labels on devices which may be replaced during maintenance are not acceptable) as well as a diagram on the ECC door or cover that depicts the devices and wiring as located within the ECC.

3.12. 110 Volt Shore Power

The vehicle shall be equipped with a 110 Volt AC power system containing the components outlined in this section.

3.12.1. Inverter

A 12 VDC to 110 volt AC inverter with a minimum power of 1500 watts shall be installed. The inverter shall operate when the engine is running and automatically disconnect when the shore power outlet is energized.

3.12.2. Power Supply Inlet

An auto-eject (on engine start-up), ground fault interrupt (GFI) protected 110 volt AC external shore power supply inlet shall be provided for use when the vehicle is parked and can be plugged into a power supply. The shore power supply shall be the preferred supply and the interior outlets shall be switched over to the shore power supply when it is energized. The system shall:

- (a) Be configured to provide constant power to the 110 volt outlets; and
- (b) Be connected to the van body electrical heater described in paragraph 3.13.3.2.

3.12.3. Block Heater

The vehicle shall be provided with a 110 volt block heater sized appropriately to the engine, with a minimum capacity of 1500 watts. The plug shall be mounted at the forward top of the curb-side of the cab/chassis.

3.12.4. Interior Outlets

Eight GFI protected duplex outlets, with appropriate identification marking, shall be mounted in the following vehicle interior locations:

- (a) One on the action wall on the road-side of the vehicle;
- (b) One on the road-side of the vehicle near the incubator plug-in;
- (c) One on the wall above the Command and Control work area;
- (d) One on the curb-side of the vehicle located above the front-most bench seating position;
- (e) Two in the Thermostabilizer Storage Compartment, one in the upper compartment and one in the lower compartment;
- (f) One in the cab on the rear wall; and
- (g) One in the cab near the driver's console close to the laptop holder (paragraph 3.6.2(o)) to plug in a laptop.

3.13. Heating, Ventilation and Air Conditioning

The Heating, Ventilation and Air Conditioning system (HVAC) shall maintain fresh air conditions and a comfortable temperature level in the casualty compartment. The HVAC system shall be capable of providing a complete change of ambient air within the vehicle every 2.5 minutes when stationary.

3.13.1. Cab HVAC

The cab area of the vehicle shall be equipped with the manufacturer's standard heating and air conditioning system and temperature controls. The cab HVAC and controls shall be completely separate from those in the van body.

3.13.2. Van Body HVAC

The van body shall be equipped with an HVAC system that shall:

- (a) Be ducted;

- (b) Be designed so that when power to the vehicle conversion electrical system is turned on (at start up or when shore power is energized), the heating and cooling functions will return to the last settings in use when the power was turned off;
- (c) Have a thermostat control switch as per paragraph 3.9.2(i) and a two-speed fan switch as per paragraph 3.9.2(j);
- (d) Meet the requirements of the Ontario Provincial Land Ambulance and Emergency Response Vehicle Standard for ambulance body HVAC;
- (e) Not allow the vehicle exhaust gases resulting from internal combustion into the rear compartment;
- (f) Be of high volume capacity with low velocity delivery for minimum draft circulation; and
- (g) Be designed to provide both positive and negative pressure within the casualty compartment as follows:
 - i. Utilize re-circulated and ambient air as selected by the vehicle operators;
 - ii. Air exchange to the external environment (incoming and outgoing) shall be filtered through a HEPA filtration system that retains all contaminants within the filters for disposal (i.e., changing from positive to negative pressure does not cause release of the filtered contaminants into the environment, and changing from negative to positive pressure does not cause release of the filtered contaminants into the casualty compartment; and
 - iii. Maintain sufficient internal pressure/vacuum to prevent ingress/egress of contaminants through the van body doors, windows and other van body penetrations when properly closed up and sealed.

3.13.3. Supplemental Van Body Heating

The van body shall be equipped with a supplementary heating system as outlined in the following sections:

3.13.3.1. Fuel Heater

The van body shall be equipped with an auxiliary heater. The heater *shall^(E)* be an Airtronic®, Espar® or Webasco® that *shall^(E)*:

- (a) Be diesel fuelled;
- (b) Be connected to the vehicle's fuel source;
- (c) Be controlled by the thermostat control switch (paragraph 3.9.2(i); and
- (d) Have sufficient capacity to keep the Van Body within the operating conditions described in paragraph 3.13.2.

3.13.3.2. Electric Heater

The van body shall be equipped with a 110 volt AC heater, controlled by the thermostat in paragraph 3.9.2(i). The electrical heater shall only be powered from the shore power source when energized and shall *not* activate when the inverter is in use.

3.14. Paint, Colors and Finishes

The cab, chassis and van body shall be finished in a standard paint scheme normally used for commercial ambulances in Canada as follows:

- (a) The cab hood and roof, and the van body roof shall have a non-skid surface coating applied prior to being painted in accordance with the paint scheme;
- (b) The exterior of the vehicle shall^(E) be finished in primarily white with accent colors as required;
- (c) The interior of the casualty compartment shall be finished in blue and grey.
- (d) As part of the bid package, the colour combinations for the areas listed below shall be provided:
 - i. All interior fibreglass;
 - ii. Cabinets, door panels and squad bench;
 - iii. Interior of all cabinets and squad bench;
 - iv. Floor covering;
 - v. Driver console (to compliment colour of the cab area);
 - vi. Attendant's captain chair and squad bench seat, backrests and head bolsters; and
 - vii. All moulding and trim.

The final paint scheme *shall* be determined at the pre-production meeting.

3.15. Identification

The following information shall be permanently marked in a conspicuous and protected location:

- (a) Manufacturer's name, model year and serial number;
- (b) GVWR rating; and
- (c) Manufacturer's Vehicle Identification Number (VIN).

3.16. Warning and Instruction Plates

The vehicle shall be equipped with:

- (a) Signage - Signage and warnings in accordance with industry standards for a patient transfer vehicle. The vehicle shall have a red cross on the roof of the van body so as to be identifiable from the air as an emergency vehicle. The red cross shall be removable (e.g., magnetic) or have a slide-over cover to hide the cross when required. The vehicle shall *not* be identified on the exterior as an ambulance or emergency vehicle. Signs shall be bilingual (English and French) with equal sized lettering or in international symbols; and
- (b) Safety Strips - Reflective safety strips on the van body as per manufacturer's standard. The strips shall be supplied but not installed.

The external signage shall be finalized at the pre-production meeting.

4. Integrated Logistics Support

The Contractor is required to ensure that spare parts required to properly maintain and repair the vehicles are available for purchase for a period of 10 years

4.1. Documentation and Support Items

The Contractor *shall* provide the following documentation and support items:

4.1.1. Items with Each Vehicle

The Contractor *shall* provide the following items with each vehicle:

- (a) **Line Setting Ticket** – One copy of the chassis manufacturer's line setting ticket, or equivalent, describing the components provided on the cab and chassis *shall* accompany each vehicle to the final delivery point;
 - (b) **Safety Recalls and Servicing Data** – The following information is required to be provided to all customer locations, on a continuing basis, throughout the life expectancy of the vehicle or for no less than 10 years:
 - i. Safety Recalls; and
 - ii. Manufacturers technical Service Bulletins, or equivalent.
- NOTE: This service can be made available as an Internet Service.
- (c) **Vehicle Manuals** – Manuals required for safe operation, maintenance and repair of the vehicle. It is preferred that complete sets of manuals are provided on CD/DVD-ROM (without password(s), special installation requirements or requiring an Internet connection). The Vehicle Manuals *shall* include:
 - i. **Operator's Manual** – Operator's manuals in a bilingual format or as 2 manuals in a single binder (one English, and one French). An Operator's Manual in paper format *shall* be provided with each vehicle;
 - ii. **Parts Manual** – The Parts Manuals in English;
 - iii. **Maintenance (Shop Repair) Manual** - The Maintenance (Shop Repair) Manual in English; and
 - iv. **Electrical Systems Trace Diagrams** - Diagrams of all electrical systems to support electrical system tracing and trouble-shooting;
 - (d) **Warranty Letter** – A paper copy of the completed bilingual Warranty Letter *shall* be delivered with each vehicle.

4.1.2. Documents Provided to Technical Authority

The Contractor *shall* provide the following documents to the Technical Authority:

- (a) **Line Setting Ticket** – One copy for each vehicle of the chassis manufacturer's line setting ticket, or equivalent, describing the components provided on the cab and chassis;
- (b) **Data Summary** - A bilingual Data Summary for each vehicle by completing Technical Authority's template with data. The Contractor *shall* provide a Data Summary, if possible, before shipment of vehicles;
- (c) **Photographs** – Two (2) digital pictures, one left-front three-quarter view, and one right-rear three-quarter view of each vehicle. Pictures shall have a size of at least four (4) mega-pixels and be taken with an uncluttered background;

- (d) **Sample Manuals** – A set of Sample Manuals, including the Operators, Parts and Maintenance Manuals, 30 working days before delivery of the first vehicle. Sample manuals will not be returned. The Technical Authority will provide manual approval or comments within 15 days;
- (e) **Warranty Letter** – One copy of the Warranty Letter for each vehicle, in electronic format; and
- (f) **Manual Listing** - A listing of all applicable operator, maintenance and parts manuals.

4.2. Training

The Contractor *shall* perform the following training:

- (a) **Familiarization** - A one (1) day (8 hours maximum) familiarization instruction for eight (8) personnel (4 operators and 4 maintainers), no later than fifteen (15) days after delivery of the vehicles. The instruction *shall* include the detailed operation and normal servicing of the vehicles and *shall* be split into two – four (4) hour segments for operator familiarization and maintainer familiarization. The final dates *shall* be arranged with the Technical Authority.

4.3. Spare Parts List

The Contractor shall provide a comprehensive list of spares to support the vehicles. The list of spares shall be annotated with the following information:

- (a) Manufacturer's part number;
- (b) NATO stock number (where available);
- (c) Proposed quantity; and
- (d) Unit price and extended price for each recommended spare item.

4.4. Vehicle Delivery Condition

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

4.5. Integrated Logistics Support

The Contractor is required to ensure that spare parts required to properly maintain and repair the vehicle are available for purchase for a period of 10 years.

APPENDIX 1 - TECHNICAL INFORMATION QUESTIONNAIRE**CHEMICAL BIOLOGICAL RADIOLOGICAL AND NUCLEAR (CBRN)
HEALTH SERVICES VEHICLE****DETACH, COMPLETE, AND RETURN****1. SCOPE.**

1.1 SCOPE - This Appendix covers technical information to be supplied by each bidder. This information is required by the Technical Authority for technical assessment of equipment offered.

NOTE: IT IS THE BIDDERS RESPONSIBILITY TO CLARIFY OUTSTANDING TECHNICAL ISSUES, BY WRITTEN REQUEST, TO THE CONTRACTING OFFICER PRIOR TO BID SUBMISSION

PURCHASE DESCRIPTION PARAGRAPHS**3. REQUIREMENTS**

3.1 Standard Design - Complies? Yes ____ No ____

Otherwise explain _____

(a) Truck/Chassis

Make/Model _____

Model Year _____

(e) System/Component capacities - Complies? Yes ____ No ____

Otherwise explain _____

3.2 Operating Conditions - Complies? Yes ____ No ____

Otherwise explain _____

3.3 Safety Standards

3.3.1 Vehicle Safety Regulations - Complies? Yes ____ No ____

Otherwise explain _____

NSM will be provided with vehicles? Yes ____ No ____

3.3.2 Variant Equipment Integrator(S) Certification - Complies? Yes ____ No ____

Otherwise explain _____

Integrator NSM Certification provided? Yes ____ No ____

3.4 Maintainability - Complies?

Yes ____ No ____

Otherwise explain _____

3.5 Ratings, Dimensions and Performance**3.5.1 Vehicle Rating - Complies?**

Yes ____ No ____

Otherwise explain _____

(a) Gross Vehicle Weight Rating (GVWR) - _____ kg/or _____ lbs(b) Payload - _____ kg/or _____ lbs**3.5.2 Cab and Chassis Dimensions- Complies?**

Yes ____ No ____

Otherwise explain _____

(a) (WB) - _____ cm/or _____ inches

(b) (OAL) - _____ cm/or _____ inches

(c) (OEW) - _____ cm/or _____ inches

(d) (OH) - _____ cm/or _____ inches

(e) Layout Diagram Provided? Yes ____ No ____

3.5.3 Van Body Dimensions- Complies?

Yes ____ No ____

Otherwise explain _____

(a) (BL) - _____ cm/or _____ inches

(b) (BW) - _____ cm/or _____ inches

(c) (BIH) - _____ cm/or _____ inches

(d) (HH) - _____ cm/or _____ inches

3.5.4 Vehicle Performance- Complies?

Yes ____ No ____

Otherwise explain _____

(a) 30 Minutes Sustained Speed - _____ km/h _____ mph(b) 25 Second Acceleration Speed - _____ km/h _____ mph(c) 3% Gradeability Speed - _____ km/h _____ mph(d) 35% Gradeability Speed - _____ km/h _____ mph

3.6 OEM Cab and Chassis - Complies?

Yes ____ No ____

Otherwise explain _____

3.6.1 Chassis Accessories(a) Backup Camera - Complies?

Yes ____ No ____

Otherwise explain _____

(b) FLIR Camera - Complies?

Yes ____ No ____

Otherwise explain _____

(c) Camera Display - Complies?

Yes ____ No ____

Otherwise explain _____

(d) Tow Hooks - Complies?

Yes ____ No ____

Otherwise explain _____

(e) License Plate Holder - Complies?

Yes ____ No ____

Otherwise explain _____

(f) Hidden Winch - Complies?

Yes ____ No ____

Otherwise explain _____

(g) Skid Plate - Complies?

Yes ____ No ____

Otherwise explain _____

(h) Hidden Hitch - Complies?

Yes ____ No ____

Otherwise explain _____

(i) Loudspeaker - Complies?

Yes ____ No ____

Otherwise explain _____

3.6.2 Cab(a) Insulation - Complies?

Yes ____ No ____

Otherwise explain _____

(b) Seats - Complies?

Yes ____ No ____

Otherwise explain _____

(c) Kick Plates - Complies?

Yes ____ No ____

Otherwise explain _____

(d) Steering Wheel - Complies? Yes ____ No ____

Otherwise explain _____

(e) Rear View Mirrors - Complies? Yes ____ No ____

Otherwise explain _____

(f) Sun Visors - Complies? Yes ____ No ____

Otherwise explain _____

(g) Windshield Wipers - Complies? Yes ____ No ____

Otherwise explain _____

(h) Windshield Washers - Complies? Yes ____ No ____

Otherwise explain _____

(i) Radio - Complies? Yes ____ No ____

Otherwise explain _____

(j) Coat Hooks - Complies? Yes ____ No ____

Otherwise explain _____

(k) Pass-Through - Complies? Yes ____ No ____

Otherwise explain _____

(l) Floor Console - Complies? Yes ____ No ____

Otherwise explain _____

(m) Two-Way Radio Fittings - Complies? Yes ____ No ____

Otherwise explain _____

(n) Airbag - Complies? Yes ____ No ____

Otherwise explain _____

(o) Laptop Holder - Complies? Yes ____ No ____

Otherwise explain _____

(p) Antenna Booster Fittings - Complies? Yes ____ No ____

Otherwise explain _____

(q) Pull Tube - Complies? Yes ____ No ____

Otherwise explain _____

(r) Cell Phone Booster - Complies? Yes ____ No ____

Otherwise explain _____

3.6.3 Engine Components - Complies? Yes ____ No ____

Otherwise explain _____

(a) Engine - Complies? Yes ____ No ____

Otherwise explain _____

Make/Model _____

(b) Drain Plug - Complies? Yes ____ No ____

Otherwise explain _____

(c) Fan Shroud - Complies? Yes ____ No ____

Otherwise explain _____

(d) Air Heater - Complies? Yes ____ No ____

Otherwise explain _____

(e) Anti-Theft Device - Complies? Yes ____ No ____

Otherwise explain _____

(f) Automatic Engine High-Idle Speed Control - Complies? Yes ____ No ____

Otherwise explain _____

Make/Model _____

3.6.4 Lubricants and Fluids - Complies? Yes ____ No ____

Otherwise explain _____

3.6.5 Filtration System - Complies? Yes ____ No ____

Otherwise explain _____

3.6.6 Transmission - Complies? Yes ____ No ____

Otherwise explain _____

3.6.7 Transfer Case - Complies? Yes ____ No ____

Otherwise explain _____

3.6.8 Fuel Tank(s) - Complies? Yes ____ No ____

Otherwise explain _____

Fuel Reservoir Capacity _____ litres

3.6.9 Brakes - Complies? Yes ____ No ____

Otherwise explain _____

3.6.10 Suspension and Axles - Complies? Yes ____ No ____

Otherwise explain _____

3.6.10.1 Suspension - Complies? Yes ____ No ____

Otherwise explain _____

3.6.10.2 Axles - Complies? Yes ____ No ____

Otherwise explain _____

3.6.11 Tires and Wheels - Complies? Yes ____ No ____

Otherwise explain _____

Front Tires

Make _____ Size _____

Rating _____

Rear Tires

Make _____ Size _____

Rating _____

3.6.12 Cab and Chassis Corrosion Protection System - Complies? Yes ____ No ____

Otherwise explain _____

3.7 Van Body

3.7.1 Van Outer Body Construction

(a) Sealed Edges - Complies? Yes ____ No ____

Otherwise explain _____

(b) Outer Roof/Floor Pan - Complies? Yes ____ No ____

Otherwise explain _____

(c) Rounded Edges - Complies? Yes ____ No ____

Otherwise explain _____

(d) Integral Rain Gutter - Complies? Yes ____ No ____

Otherwise explain _____

(e) Pass-Through/Bellows - Complies? Yes ____ No ____

Otherwise explain _____

(f) Rear Wheel Housing - Complies? Yes ____ No ____

Otherwise explain _____

3.7.2 Vehicle Protection Accessories

(a) Fenders - Complies? Yes ____ No ____

Otherwise explain _____

(b) Front Mud Flaps - Complies? Yes ____ No ____

Otherwise explain _____

(c) Rear Mud Flaps - Complies? Yes ____ No ____

Otherwise explain _____

(d) Running Board - Complies? Yes ____ No ____

Otherwise explain _____

(e) Stone Guard - Complies? Yes ____ No ____

Otherwise explain _____

(f) Rear Step Bumper - Complies? Yes ____ No ____

Otherwise explain _____

Width - _____ cm/or _____ inches

Depth - _____ cm/or _____ inches

Ground Clearance - _____ cm/or _____ inches

Angle of Departure _____ Degrees

3.7.3 Van Body Doors

(a) Rear Doors - Complies? Yes ____ No ____

Otherwise explain _____

(b) Side Exit Door - Complies? Yes ____ No ____

Otherwise explain _____

(c) Exterior Electrical Compartment Door - Complies? Yes ____ No ____

Otherwise explain _____

(d) Exterior Oxygen Compartment Door - Complies? Yes ____ No ____

Otherwise explain _____

(e) Interior Oxygen Access Door - Complies? Yes ____ No ____

Otherwise explain _____

(f) Exterior Curb-Side Front Equipment Compartment Door - Complies? Yes ____ No ____

Otherwise explain _____

(g) Exterior Curb-Side Rear Equipment Compartment Door - Complies? Yes ____ No ____

Otherwise explain _____

(h) Exterior Full-Height Backboard Compartment Door - Complies? Yes ____ No ____

Otherwise explain _____

(i) Pass-Through Door - Complies? Yes ____ No ____

Otherwise explain _____

(j) Thermostabilizer Storage Compartment Door - Complies? Yes ____ No ____

Otherwise explain _____

3.7.4 Van Body Exterior Door Construction - Complies? Yes ____ No ____

Otherwise explain _____

(a) Commonality of Construction - Complies? Yes ____ No ____

Otherwise explain _____

(b) Positive Seals - Complies? Yes ____ No ____

Otherwise explain _____

(c) Panel Construction - Complies? Yes ____ No ____

Otherwise explain _____

(d) Hold-open Devices - Complies? Yes ____ No ____

Otherwise explain _____

(e) Release Handles - Complies? Yes ____ No ____

Otherwise explain _____

(f) Heavy-duty Locks - Complies? Yes ____ No ____

Otherwise explain _____

(g) Secondary Door Release - Complies? Yes ____ No ____

Otherwise explain _____

(h) Hinges, Latches and Checks - Complies? Yes ____ No ____

Otherwise explain _____

(i) Rear Doors - Complies? Yes ____ No ____

Otherwise explain _____

Curb Side Door Width - _____ cm/or _____ inches

Curb Side Door Height - _____ cm/or _____ inches

Curb Side Window Width - _____ cm/or _____ inches

Curb Side Window Height - _____ cm/or _____ inches

Road Side Door Width - _____ cm/or _____ inches

Road Side Door Height - _____ cm/or _____ inches

Road Side Window Width - _____ cm/or _____ inches

Road Side Window Height - _____ cm/or _____ inches

Opening Angle _____ Degrees

(j) Side Door - Complies? Yes ____ No ____

Otherwise explain _____

Door

Width - _____ cm/or _____ inches

Height - _____ cm/or _____ inches

Window

Width - _____ cm/or _____ inches

Height - _____ cm/or _____ inches

3.7.5 Van Body Interior Door Construction - Complies? Yes ____ No ____

Otherwise explain _____

(a) Unwanted Opening - Complies? Yes ____ No ____

Otherwise explain _____

(b) Interior Door Fittings - Complies? Yes ____ No ____

Otherwise explain _____

3.7.6 Van Body Floor Construction - Complies? Yes ____ No ____

Otherwise explain _____

Floor Covering Material _____

3.7.7 Shelving, Storage and Mounting Layout

(a) Action Wall - Complies? Yes ____ No ____

Otherwise explain _____

(b) Electrical Compartment - Complies? Yes ____ No ____

Otherwise explain _____

(c) Oxygen Compartment - Complies? Yes ____ No ____

Otherwise explain _____

(d) Portable Generator Compartment - Complies? Yes ____ No ____

Otherwise explain _____

(e) Equipment Compartment (Upper Front Curb-Side) - Complies? Yes ____ No ____

Otherwise explain _____

(f) Equipment Compartment (Rear Curb-Side) - Complies? Yes ____ No ____

Otherwise explain _____

(g) Under-Bench Equipment Compartment - Complies? Yes ____ No ____

Otherwise explain _____

(h) On-Bench Equipment Storage - Complies? Yes ____ No ____

Otherwise explain _____

(i) Full-Height Backboard Compartment - Complies? Yes ____ No ____

Otherwise explain _____

(j) Thermostabilizer Storage Compartment - Complies? Yes ____ No ____

Otherwise explain _____

(k) Clock Mount - Complies? Yes ____ No ____

Otherwise explain _____

(l) Interior Camera Mount - Complies? Yes ____ No ____

Otherwise explain _____

(m) Mounting Location - Complies? Yes ____ No ____

Otherwise explain _____

(n) Sink System - Complies? Yes ____ No ____

Otherwise explain _____

(o) Dedicated Container Location - Complies? Yes ____ No ____

Otherwise explain _____

(p) Incubator Tie-Down - Complies? Yes ____ No ____

Otherwise explain _____

(q) Cylinder Securement Fixture(s) - Complies? Yes ____ No ____

Otherwise explain _____

(r) Intravenous Securement - Complies? Yes ____ No ____

Otherwise explain _____

(s) Fire Extinguisher Securement - Complies? Yes ____ No ____

Otherwise explain _____

(t) Radio Antennae Access - Complies? Yes ____ No ____

Otherwise explain _____

(u) Command and Control Area - Complies? Yes ____ No ____

Otherwise explain _____

(v) Layout Diagram Provided? Yes ____ No ____

3.7.8 Shelving and Storage Construction - Complies? Yes ____ No ____

Otherwise explain _____

(a) Action Area - Complies? Yes ____ No ____

Otherwise explain _____

(b) Oxygen Cylinder Storage - Complies? Yes ____ No ____

Otherwise explain _____

(c) Storage Compartment (Portable Electric Generator) - Complies? Yes ____ No ____

Otherwise explain _____

(d) Storage Compartment (Three-Shelf) - Complies? Yes ____ No ____

Otherwise explain _____

(e) Storage Compartment (Three-Shelf Adjustable) - Complies? Yes ____ No ____

Otherwise explain _____

(f) Vented Storage Compartment (Backboards) - Complies? Yes ____ No ____

Otherwise explain _____

(g) Storage Compartment (Two-Level Thermostabilizer) - Complies? Yes ____ No ____

Otherwise explain _____

(h) Vents - Complies? Yes ____ No ____

Otherwise explain _____

3.7.9 Passenger Securement Layout

(a) Casualty Loading System - Complies? Yes ____ No ____

Otherwise explain _____

(b) Attendant's Seat - Complies? Yes ____ No ____

Otherwise explain _____

(c) Command and Control Seat - Complies? Yes ____ No ____

Otherwise explain _____

(d) Squad Bench - Complies? Yes ____ No ____

Otherwise explain _____

3.7.10 Passenger Securement Construction

(a) Casualty Loading System - Complies? Yes ____ No ____

Otherwise explain _____

(b) Attendant's Seat - Complies? Yes ____ No ____

Otherwise explain _____

(c) Command and Control Seat - Complies? Yes ____ No ____

Otherwise explain _____

(d) Squad Bench - Complies? Yes ____ No ____

Otherwise explain _____

3.7.11 Oxygen System - Complies? Yes ____ No ____

Otherwise explain _____

3.7.12 Suction Aspiration System - Complies? Yes ____ No ____

Otherwise explain _____

3.8 Accessories

3.8.1 Standard

(a) CPR Board - Complies? Yes ____ No ____

Otherwise explain _____

(b) Backboards - Complies? Yes ____ No ____

Otherwise explain _____

(c) Clock - Complies? Yes ____ No ____

Otherwise explain _____

(d) Interior Camera - Complies? Yes ____ No ____

Otherwise explain _____

(e) Wheel Assembly - Complies? Yes ____ No ____

Otherwise explain _____

(f) Tire Changing Tools - Complies? Yes ____ No ____

Otherwise explain _____

(g) Extrication Tools - Complies? Yes ____ No ____

Otherwise explain _____

(h) Waste Containers - Complies? Yes ____ No ____

Otherwise explain _____

(i) Sharps Containers - Complies? Yes ____ No ____

Otherwise explain _____

(j) Fire Extinguishers - Complies? Yes ____ No ____

Otherwise explain _____

(k) Road Flares - Complies? Yes ____ No ____

Otherwise explain _____

(l) Vital Signs Monitor - Complies? Yes ____ No ____

Otherwise explain _____

(m) Suction Aspiration System - Complies? Yes ____ No ____

Otherwise explain _____

(n) Defibrillator and Platform - Complies? Yes ____ No ____

Otherwise explain _____

(o) Cargo Netting - Complies? Yes ____ No ____

Otherwise explain _____

(p) Spotlight - Complies? Yes ____ No ____

Otherwise explain _____

(q) Backup Camera - Complies? Yes ____ No ____

Otherwise explain _____

(r) FLIR Camera - Complies? Yes ____ No ____

Otherwise explain _____

(s) Winch - Complies? Yes ____ No ____

Otherwise explain _____

(t) Hitch - Complies? Yes ____ No ____

Otherwise explain _____

3.9 Controls - Complies? Yes ____ No ____

Otherwise explain _____

3.9.1 Cab Controls

(a) Disable Switch - Complies? Yes ____ No ____

Otherwise explain _____

(b) Cab Map Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(c) Siren Control - Complies? Yes ____ No ____

Otherwise explain _____

(d) Anti-Theft Device Switch - Complies? Yes ____ No ____

Otherwise explain _____

(e) Back-Up Alarm Switch - Complies? Yes ____ No ____

Otherwise explain _____

(f) Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(g) Spare Switch - Complies? Yes ____ No ____

Otherwise explain _____

(h) Kick-Out Switch - Complies? Yes ____ No ____

Otherwise explain _____

(i) Vehicle Boost Switch - Complies? Yes ____ No ____

Otherwise explain _____

(j) Van Body Pressure Control - Complies? Yes ____ No ____

Otherwise explain _____

(k) Suspension Drop Switch - Complies? Yes ____ No ____

Otherwise explain _____

3.9.2 Van Body Controls

(a) Passenger Door Light Switches - Complies? Yes ____ No ____

Otherwise explain _____

(b) In-Cabinet Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(c) Light Disable Switch - Complies? Yes ____ No ____

Otherwise explain _____

(d) Cabinet Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(e) Curb-Side Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(f) Road-Side Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(g) Red Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(h) Reading Light Switch - Complies? Yes ____ No ____

Otherwise explain _____

(i) Thermostat Control - Complies? Yes ____ No ____

Otherwise explain _____

(j) Heater Fan Speed Switch - Complies? Yes ____ No ____

Otherwise explain _____

(k) Climate Control Selector - Complies? Yes ____ No ____

Otherwise explain _____

(l) Spare Switch - Complies? Yes ____ No ____

Otherwise explain _____

(m) Van Body Pressure Control - Complies? Yes ____ No ____

Otherwise explain _____

3.9.3 Instruments

(a) Tachometer - Complies? Yes ____ No ____

Otherwise explain _____

(b) Odometer - Complies? Yes ____ No ____

Otherwise explain _____

(c) Temperature Gauge - Complies? Yes ____ No ____

Otherwise explain _____

(d) Pressure Gauge - Complies? Yes ____ No ____

Otherwise explain _____

(e) Voltmeter(s) - Complies? Yes ____ No ____

Otherwise explain _____

(f) Ammeter - Complies? Yes ____ No ____

Otherwise explain _____

3.10 Lighting - Complies? Yes ____ No ____

Otherwise explain _____

3.10.1 Cab Lighting

(a) Headlights - Complies? Yes ____ No ____

Otherwise explain _____

(b) Brake, Turn, Hazard and Clearance - Complies? Yes ____ No ____

Otherwise explain _____

(c) Flood Lamp/Driving Light - Complies? Yes ____ No ____

Otherwise explain _____

(d) Dome Light - Complies? Yes ____ No ____

Otherwise explain _____

(e) Map Light - Complies? Yes ____ No ____

Otherwise explain _____

3.10.2 Van Body Lighting

(a) Brake/Turn/Tail Lights - Complies? Yes ____ No ____

Otherwise explain _____

(b) Backup Lights - Complies? Yes ____ No ____

Otherwise explain _____

(c) Clearance Lights - Complies? Yes ____ No ____

Otherwise explain _____

(d) Side Turn Signals - Complies? Yes ____ No ____

Otherwise explain _____

(e) Casualty Compartment Lighting - Complies? Yes ____ No ____

Otherwise explain _____

(f) Casualty Compartment Cabinetry Lighting - Complies? Yes ____ No ____

Otherwise explain _____

(g) Action Wall Reading Light - Complies? Yes ____ No ____

Otherwise explain _____

(h) Van Body Subdued Lighting - Complies? Yes ____ No ____

Otherwise explain _____

3.10.3 Warning Lights

(a) Door Ajar Light - Complies? Yes ____ No ____

Otherwise explain _____

(b) Voltmeter/Ammeter Alternative - Complies? Yes ____ No ____

Otherwise explain _____

(c) Low Oil Pressure Light - Complies? Yes ____ No ____

Otherwise explain _____

(d) High Coolant Temperature Light - Complies? Yes ____ No ____

Otherwise explain _____

(e) Van Body Positive/Negative Pressurization Light - Complies? Yes ____ No ____

Otherwise explain _____

3.11 Electrical System - Complies? Yes ____ No ____

Otherwise explain _____

3.11.1 Incubator Receptacles - Complies? Yes ____ No ____

Otherwise explain _____

3.11.2 Socket-Type Outlets - Complies? Yes ____ No ____

Otherwise explain _____

3.11.3 Intravenous Warmers - Complies? Yes ____ No ____

Otherwise explain _____

3.11.4 Batteries - Complies? Yes ____ No ____

Otherwise explain _____

Output _____ CCA

3.11.5 Alternators - Complies? Yes ____ No ____

Otherwise explain _____

Output: _____ Amperes

3.11.6 Main Conversion Power Switching - Complies? Yes ____ No ____

Otherwise explain _____

3.11.7 Electrical Control Centre (ECC) - Complies? Yes ____ No ____

Otherwise explain _____

3.12 110 Volt Shore Power - Complies? Yes ____ No ____

Otherwise explain _____

3.12.1 Inverter - Complies? Yes ____ No ____

Otherwise explain _____

3.12.2 Power Supply Inlet - Complies? Yes ____ No ____

Otherwise explain _____

3.12.3 Block Heater - Complies? Yes ____ No ____

Otherwise explain _____

3.12.4 Interior Outlets - Complies? Yes ____ No ____

Otherwise explain _____

3.13 Heating, Ventilation and Air Conditioning - Complies? Yes ____ No ____

Otherwise explain _____

3.13.1 Cab HVAC - Complies? Yes ____ No ____

Otherwise explain _____

3.13.2 Van Body HVAC - Complies? Yes ____ No ____

Otherwise explain _____

(g) Positive/Negative Pressurization

Maximum Positive Pressure _____

Maximum Negative Pressure (vacuum) _____

3.13.3 Supplemental Van Body Heating - Complies? Yes ____ No ____

Otherwise explain _____

3.13.3.1 Fuel Heater - Complies? Yes ____ No ____

Otherwise explain _____

3.13.3.2 Electric Heater - Complies? Yes ____ No ____

Otherwise explain _____

3.14 Paint, Colours and Finishes - Complies? Yes ____ No ____

Otherwise explain _____

(d) Colour Combinations:

i Interior Fibreglass

ii Cabinets, door panels and squad bench

iii Interior of cabinets and squad

iv Floor Covering

v Driver Console

vi Attendant's captain chair and squad bench seat, backrests and head bolsters

vii Interior Fibreglass

3.15 Identification - Complies? Yes ____ No ____

Otherwise explain _____

3.16 Warning and Instruction Plates

(a) Signage - Complies? Yes ____ No ____

Otherwise explain _____

(b) Safety Strips - Complies? Yes ____ No ____

Otherwise explain _____

4. INTEGRATED LOGISTIC SUPPORT - Complies? Yes ____ No ____

Otherwise explain _____

4.1 Documentation and Support Items

4.1.1 Items with Each Vehicle

(a) Line Setting Ticket - Complies? Yes ____ No ____

Otherwise explain _____

(b) Safety Recalls and Servicing Data - Complies? Yes ____ No ____

Otherwise explain _____

(c) Vehicle Manuals - Complies? Yes ____ No ____

Otherwise explain _____

(d) Warranty Letter - Complies? Yes ____ No ____

Otherwise explain _____

4.1.2 Documents Provided to Technical Authority

(a) Line Setting Ticket - Complies? Yes ____ No ____

Otherwise explain _____

(b) Data Summary - Complies? Yes ____ No ____

Otherwise explain _____

(c) Photographs - Complies? Yes ____ No ____

Otherwise explain _____

(d) Sample Manuals - Complies? Yes ____ No ____

Otherwise explain _____

(e) Warranty Letter - Complies? Yes ____ No ____

Otherwise explain _____

(f) Manual Listing - Complies? Yes ____ No ____

Otherwise explain _____

4.2 Training - Complies? Yes ____ No ____

Otherwise explain _____

4.3 Spare Parts List - Complies? Yes ____ No ____

Otherwise explain _____

4.4 Vehicle Delivery Condition - Complies? Yes ____ No ____

Otherwise explain _____

4.5 Integrated Logistics Support - Complies? Yes ____ No ____

Otherwise explain _____

Conformance Certificate - If the vehicle and equipment offered do not conform exactly to the requirements of this purchase description, any deviation *shall* be listed below. If there are no deviations, this fact *shall* be stated below.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

□ NO DEVIATIONS

FIRM NAME _____

ADDRESS _____

NAME _____ TITLE _____

TELEPHONE NUMBER _____ FAX NUMBER _____

SIGNATURE _____ DATE _____

Figure 1 - Plan View

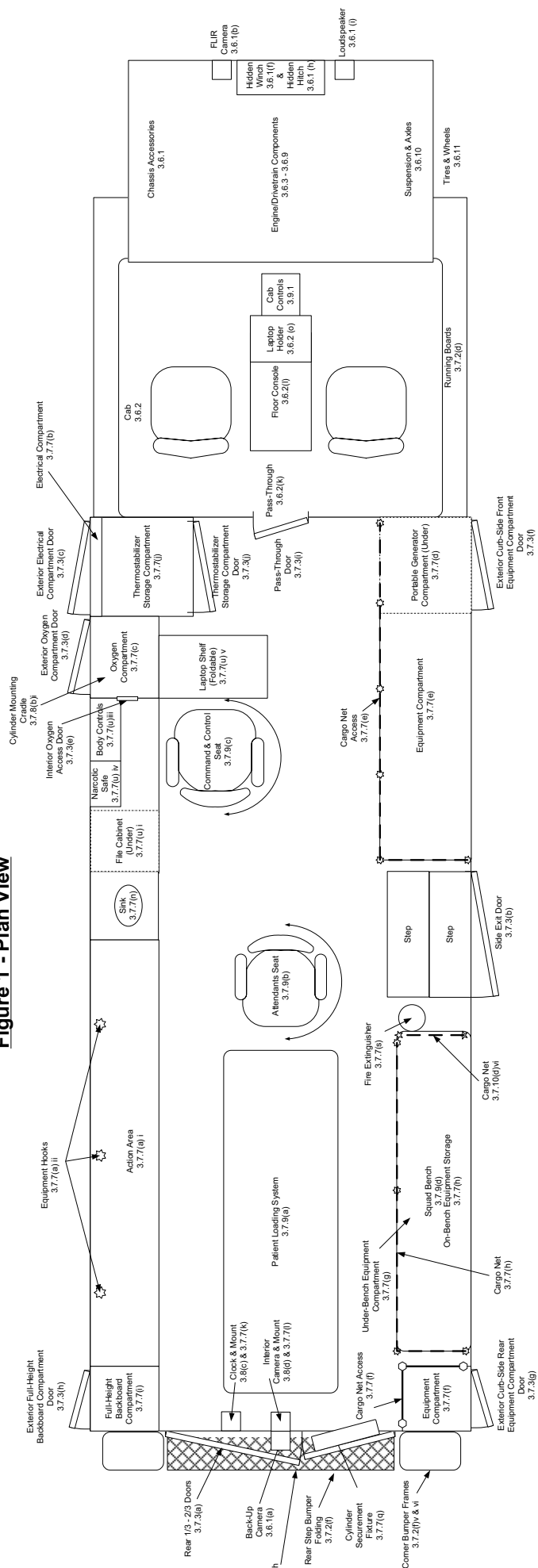


Figure 2 - Road-Side Interior View

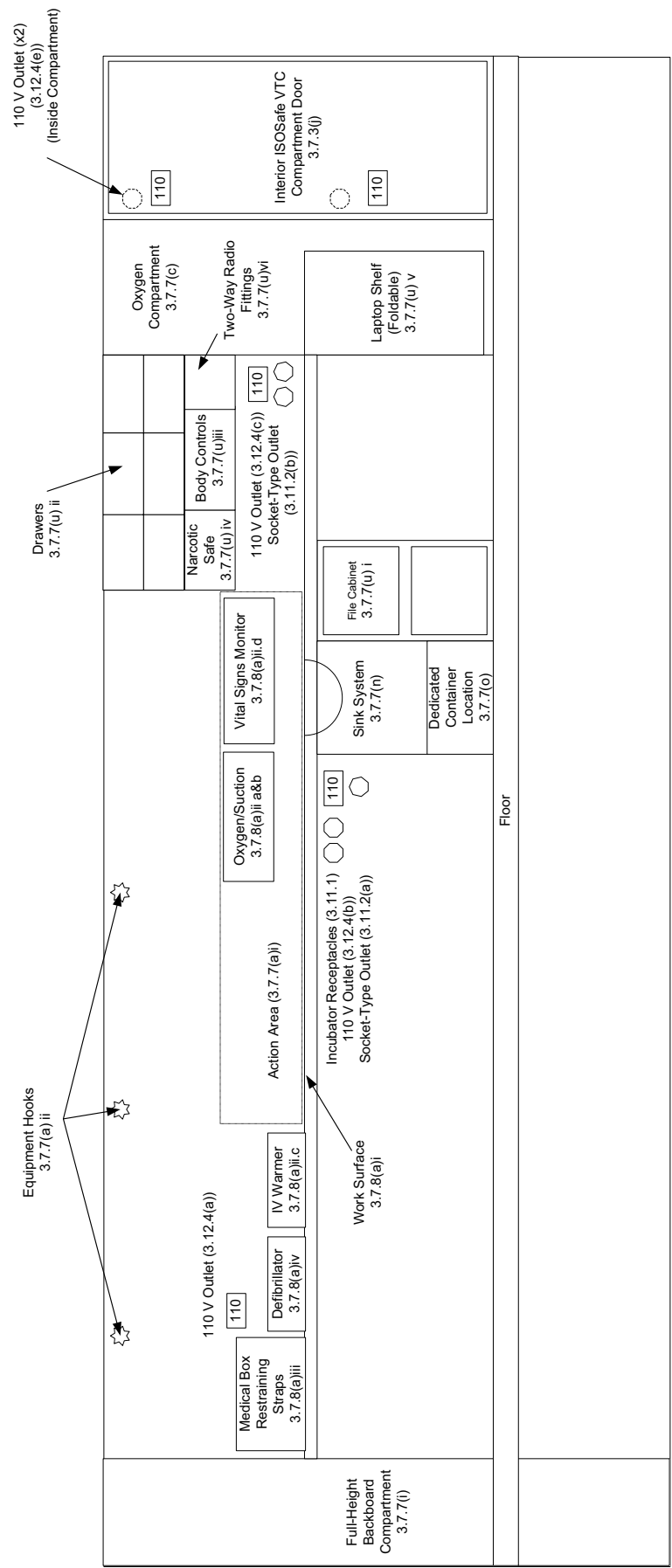


Figure 3 - Curb-Side Interior

