



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

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

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

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

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

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

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

**Comments - Commentaires**

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

**Issuing Office - Bureau de distribution**  
**Vehicles & Industrial Products Division**  
**11 Laurier St./11, rue Laurier**  
**7A2, Place du Portage, Phase III**  
**Gatineau, Québec K1A 0S5**

<b>Title - Sujet</b> ARMoured SPORTS UTILITY VEHICLE	
<b>Solicitation No. - N° de l'invitation</b> W8476-175515/B	<b>Date</b> 2016-09-20
<b>Client Reference No. - N° de référence du client</b> W8476-175515	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HP-912-71576	
<b>File No. - N° de dossier</b> hp912.W8476-175515	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-10-17</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input checked="" type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Pearson, Neil	<b>Buyer Id - Id de l'acheteur</b> hp912
<b>Telephone No. - N° de téléphone</b> (873) 469-3312 ( )	<b>FAX No. - N° de FAX</b> (819) 953-2953
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>  Specified Herein Précisé dans les présentes	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

**This bid solicitation cancels and supersedes previous bid solicitation number W8476-175515/A dated 20 July 2016 with a closing of 06 September 2016 at 2:00 p.m. EDT**

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

Canada is seeking proposals to procure:

1.1.1 Quantity one (1) armoured sport utility vehicle Variant I and ancillary items as described in Annex “A” - Pricing and in accordance with Annex “B” - Purchase Description armoured sport utility vehicle.

1.1.2 Irrevocable options identified in Annex “A” - Pricing.

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

1.1.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex “A” - Pricing.

1.1.2.3 The options may be exercised within twelve (12) months after contract award.

### **1.2. Debriefings**

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

### **1.3. Trade Agreements**

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

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

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

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

The 2003 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

**Delete:** sixty (60) days

**Insert:** ninety (90) days

### **2.2 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.

### **2.3 Enquiries - Bid Solicitation**

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

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a "proprietary" nature must be clearly marked "proprietary" at each relevant item. Items identified as proprietary will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

## **2.4 Applicable Laws**

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

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

## **2.5 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**

### **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid (2 hard copies);

Section II: Financial Bid ( 1 hard copy);

Section III: Certifications (2 hard copies);

Section IV: Additional Information (2 hard copies)

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

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

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

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

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

#### **Section I: Technical Bid**

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

Bidders should complete and submit with their bid the following;



- Annex "C" - Technical Information Questionnaire - armoured sport utility vehicle.

## Section II: Financial Bid

Bidders must submit their bid in accordance with the Basis of Payment specified in Part 6 and Annex A - Pricing.

### 3.3 SACC Manual Clauses

#### 3.3.1 Exchange Rate Fluctuation Risk Mitigation

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

### **Section III: Certifications**

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

### **Section IV Additional Information**

Canada requests that bidders submit the following information:

#### **3.4 Delivery**

##### **3.4.1 Firm Quantity**

While delivery of the vehicle(s) is requested by 31 December 2016, the best delivery that can be offered is as follows:

Item 001 – qty one (1) armoured sport utility vehicle Variant I and related items will be delivered within \_\_\_\_\_ calendar days from the effective date of the contract.

##### **3.4.2 Optional Quantity**

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

Item 002 – qty one (1) armoured sport utility vehicle Variant II and ancillary items will be delivered within \_\_\_\_\_ calendar days after an option is exercised.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1. Evaluation Procedures**

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

#### **4.1.1 Mandatory Technical Evaluation Criteria**

##### **4.1.1.1 Mandatory Proof of Compliance**

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

#### **4.1.2 Mandatory Financial Evaluation Criteria**

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

**4.1.2.2** The prices of the bid Bids must be in Canadian dollars, DDP Delivered Duty Paid at destination, Incoterms 2000, for the firm quantity item 001 and optional quantity item 002. Custom Duties and Excise Taxes included where applicable, and Applicable Taxes are extra.

##### **4.1.2.3 Aggregate Evaluated Price**

Bids will be evaluated on an aggregate price basis for the firm quantity and the optional quantity.

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

- a) The firm unit price for the firm quantity and the optional quantity will be multiplied by their identified estimated quantities.

### **4.2. Basis of Selection**

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

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

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

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

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

### **5.1 Certifications Required with the Bid**

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

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

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

### **5.2 Certifications Precedent to Contract Award and Additional Information**

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

#### **5.2.1 Integrity Provisions – Required Documentation**

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

## 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

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

## 5.2.3 Additional Certifications Precedent to Contract Award

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

### 5.2.3.1 Product Conformance

The Bidder certifies that all vehicles/equipment proposed conform, and will continue to conform throughout the duration of the contract, to all technical specifications of the purchase description(s).

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

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Bidder's authorized representative signature

---

Date

### 5.2.3.2 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

- A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date

**Or**

- B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

<b>Green Practices within the Bidders' organization</b>	<b>Insert a checkmark for each criterion that is met</b>
Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	

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Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
hp912

Client Ref. No. - N° de réf. du client  
W8476-175515

File No. - N° du dossier  
hp912W8476-175515

CCC No./N° CCC - FMS No./N° VME

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Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

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Bidders' Authorized Representative Signature

---

Date

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **6.1. Requirement**

6.1.1 The Contractor must deliver quantity one (1) armoured sport utility vehicle Variant I and ancillary items as described in Annex “A” - Pricing and in accordance with Annex “B” - Purchase Description armoured sport utility vehicle.

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

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

6.1.2.2 The options may be exercised in whole or in part and on more than one occasion at the sole discretion of Canada, up to the maximum quantity identified in Annex “A” - Pricing.

6.1.2.3 The options may be exercised within Twelve (12) months after contract award.

### **6.2. Standard Clauses and Conditions**

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

#### **6.2.1 General Conditions**

2010A (2016-04-04) General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

6.2.1.1 Section 09 of general conditions 2010A is amended by replacing the period of twelve (12) months by the following;

two year (2) warranty on the armour material and ancillary equipment that covers their quality and installation.

The doors and door hinges reinforcement warranty period of five (5) years

A standard vehicle warranty.

All other provisions of the warranty section remain in effect.

## **6.3. Term of Contract**

### **6.3.1 Delivery of Vehicle**

#### **6.3.1.1 Firm Quantity**

Delivery date of the vehicle must be made as follows:

Item 001 – quantity one (1) armoured sport utility vehicle Variant I and ancillary items must be delivered on or before \_\_\_\_\_ (Date to be inserted by PWGSC the Contracting Authority at time of contract award.)

#### **6.3.1.2 Option Quantity**

Item 002 - quantity up to one (1) armoured sport utility vehicle Variant II and ancillary 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.)

## **6.4. Authorities**

### **6.4.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Neil Pearson  
Title: Supply Specialist  
Organization: Public Services and Procurement Canada - Acquisitions Branch  
LEFT Directorate, HP Division,  
7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec,  
K1A 0S5  
Telephone: 873 469-3312  
Facsimile: 819 953-2953  
E-mail: neil.pearson@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.

#### 6.4.2 Procurement Authority

The Procurement Authority for the Contract is:

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
E-mail: \_\_\_\_\_

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

#### 6.4.3 Technical Authority:

The Technical Authority for the Contract is:

Name: \_\_\_\_\_ (To be inserted by PWGSC at time of contract award.)  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
E-mail: \_\_\_\_\_

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the

Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

#### 6.4.4 Contractor's Representative

Name and telephone number of the person responsible for :

##### General enquiries

Name: \_\_\_\_\_ (To be completed by the bidder.)

Title: \_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

E-mail: \_\_\_\_\_

##### Delivery follow-up

Name: \_\_\_\_\_ (To be completed by the bidder.)

Title: \_\_\_\_\_

Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_

E-mail: \_\_\_\_\_

#### 6.4.5 After Sales Service

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

**Item** \_\_\_\_ *(repeat if more than one destination for firm quantity)*

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

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

#### 6.5. Payment

##### 6.5.1 Basis of Payment

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

#### **6.5.1.1 Basis of Payment (BOP) Type 1**

Firm unit prices in Canadian dollars, Delivered Duty Paid at destination, Incoterms 2000, including Custom Duties and Excise Taxes included where applicable, and applicable Taxes are extra.

The price paid will be adjusted in accordance with the exchange rate fluctuation provision (as applicable).

#### **6.5.2 SACC Manual Clauses**

C6000C	Limitation of price	2011-05-06
H1001C	Multiple Payments	2008-05-12

#### **6.5.3 Exchange Rate Fluctuation Adjustment (if applicable)**

1. The foreign currency component (FCC) is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuation. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
2. For each line item where a FCC is identified, Canada assumes the risks and benefits for exchange rate fluctuation, as shown in the Basis of Payment. For such items, the exchange rate fluctuation amount is determined in accordance with the provision of this clause.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provisions in the contract. The exchange rate adjustment amount will be calculated in accordance with the following formula:  
$$\text{Adjustment} = \text{FCC} \times \text{Qty} \times (i_1 - i_0) / i_0$$
where formula variables correspond to:

#### **FCC**

Foreign Currency Component (per unit)

**$i_0$**



Initial exchange rate (CAN\$ per unit of foreign currency [e.g. US\$1])

**$i_1$**

exchange rate for adjustments (CAN\$ per unit of foreign currency [e.g. US\$1])

## Qty

quantity of units

4. The initial exchange rate is typically set as the noon rate as published by the Bank of Canada on the solicitation closing date.
5. For goods, the exchange rate for adjustment will be the noon rate as published by the Bank of Canada on the date the goods were delivered. For services, the exchange rate for adjustment will be the noon rate on the last business day of the month for which the services were performed. For advance payments, the exchange rate for adjustment will be the noon rate on the date the payment was due. The most recent noon rate will be used for non-business days.
6. The Contractor must indicate the total exchange rate adjustment amount (either upward, downward or no change) as a separate item on each invoice or claim for payment submitted under the Contract. Where an adjustment applies, the Contractor must submit with their invoice form PWGCSC-TPSGC 450 , Claim for Exchange Rate Adjustments.
7. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease), calculated in accordance with column 8 of form PWGCSC-TPSGC 450  (i.e.  $[i_1 - i_0] / i_0$ ).
8. Canada reserves the right to audit any revision to costs and prices under this clause.

## 6.6 Invoicing Instructions

6.6.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions including the Client Ref #BT715. Invoices cannot be submitted until all work identified in the invoice is completed. Suppliers are requested to provide invoices in electronic format unless otherwise specified by the Contracting Authority or Project Authority, thereby reducing printed material.

6.6.2 Invoices must be distributed as follows:

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

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

Attention: DLP \_\_\_\_\_

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

### **6.6.3 Holdback**

A twenty percent (20%) holdback will apply on the total price of each **item 001** and **002** on any due payment of the said vehicle/equipment. Release of the holdback (20%) is conditional upon receipt and certified acceptance by inspection authority of the said vehicle and all ancillary items as identified in Annex "A" - Pricing.

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

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

## **6.7. Certifications**

### **6.7.1 Compliance**

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

## **6.8 Applicable Laws**

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

## **6.9 Priority of Documents**

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

- (a) the Articles of Agreement;
- (b) 2010A (2016-04-04) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Purchase Description - armoured sport utility vehicle
- (e) Annex "C" - Technical Information Questionnaire - armoured sport utility vehicle
- (f) the Contractor's bid dated \_\_\_\_\_

## 6.10 SACC Manual Clauses

A1009C	Work Site Access	2008-05-12
A9006C	Defence Contract	2012-07-16
A9049C	Vehicle Safety	2011-05-16
A9062C	Canadian Forces Site Regulations	2011-05-16
C2800C	Priority Rating	2013-01-28
C2801C	Priority Rating - Canadian-based Contractors	2014-11-27
D3010C	Delivery of Dangerous Goods / Hazardous Products	2016-01-28
D5545C	ISO 9001:2000 - Quality Management Systems - Requirements (QAC C)	2010-08-16
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2016-01-28

## 6.11 Inspection and Acceptance

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

## 6.12 Preparation for Delivery

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

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

## 6.13 Shipping Instructions - Delivery at Destination

- 6.13.1 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. 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.
- 6.13.2 The Contractor must deliver the goods by appointment only. The Contractor or its carrier must arrange delivery appointments by contacting the contacts specified in Annex "A" - Pricing. The consignee may refuse shipments when prior arrangements have not been made.

#### **6.14 Post-Contract Award Meeting/Pre-Production Meeting**

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

#### **6.15 Progress Reports**

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

Each progress report must address the following questions:

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

#### **6.16 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.

## **6.17 Material**

Material supplied must be new unused and of current production by manufacturer. (2016 model-year or newer).

## **6.18 Design Changes**

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

## **6.19 Interchangeability**

Unless changes during the production run are authorized by Contracting 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.

## **6.20 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 or air transportation.

## **6.21 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.

## **6.22 Vehicle Recall Notices**

All vehicle recall notices must be forwarded to:

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

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

## ANNEX “A” - PRICING

### Item 001 Armoured sport utility vehicle Variant I (Firm Quantity)

The Contractor must deliver the vehicle/equipment including the manuals, data summary, photographs, warranty letter(s), preventative maintenance replacement parts kit list and special tools list in accordance with the attached Annex “B” - Purchase Description - armoured sport utility vehicle.

The armoured sport utility vehicle and ancillary items must be delivered to:

Embassy of Canada  
House 256  
Street 15  
Wazir Akbar Khan  
Kabul, Afghanistan

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 ancillary items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: one (1)

### Item 002 Armoured sport utility vehicle Variant II (Optional Quantity)

If this option is exercised, the Contractor must deliver the vehicle/equipment including the manuals, data summary, photographs, warranty letter(s), preventative maintenance replacement parts kit list and special tools list in accordance with the attached Annex “B” - Purchase Description - armoured sport utility vehicle.

The armoured sport utility vehicle and ancillary items must be delivered to:

Bogota, Colombia

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

Solicitation No. - N° de l'invitation  
W8476-175515/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
hp912

Client Ref. No. - N° de réf. du client  
W8476-175515

File No. - N° du dossier  
hp912W8476-175515

CCC No./N° CCC - FMS No./N° VME

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ancillary items, in accordance with Basis of Payment Type 1 (as detailed at Clause 6.5.1 Basis of Payment).

Quantity: Up to one (1)

Annex B

W8476-175515

8 July 2016

| Revised 20 September 2016



**NOTICE**

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

**AVIS**

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

**PURCHASE DESCRIPTION**

**FOR**

**ARMoured SPORTS UTILITY VEHICLE**

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**OPI DSVPM 4 – DAPVS 4**

Issued on Authority of the Chief of the Defence Staff

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

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## PURCHASE DESCRIPTION

### FOR

### ARMOURED SPORTS UTILITY VEHICLE

#### 1.0 SCOPE

**1.1 Purpose.** This document describes the requirements for one new, armoured, conventional, left-hand drive vehicle, to be used for the protected movement of personnel in Afghanistan:

- a. Sports Utility Vehicle (SUV), 4x4, minimum crew capacity of four and a minimum cargo capacity of 400 KG. Toyota Land Cruiser 200 or equivalent.

#### 2.0 INSTRUCTIONS AND DEFINITIONS

**2.1 Instructions.** The following instructions must be applied to this Purchase Description:

- a. Requirements, identified by the word "must", are mandatory. Deviations will not be permitted;
- b. Requirements identified with a "will" define actions to be performed by the Crown and require no action/obligation on the Offeror's part;
- c. Where "must" or "will" are not used, the information provided is for guidance only. These desirables may be provided, however, any solution provided must satisfy mandatory requirements;
- d. Metric measurements must be used to define the requirement. Other measurements are for reference only and may not be exact conversions;
- e. Dimensions stated as nominal must 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;

- f. In this document "provided" must mean, "provided and installed";
- g. Where a standard is specified and the Offeror has offered an equivalent, that equivalent standard must be provided with the bid.

**2.2 Definitions.** The following definitions must be applied to the interpretation of this Purchase Description:

- a. "Technical Authority" (TA) is the government official responsible for technical management of this requirement. The Technical Authority is the Director Support Vehicles Program Management; and
- b. "Technical Authority Approved Equivalent (E)" means a standard, means, or component type, which the Technical Authority has approved for this requirement, in writing, as meeting the specified requirements for the function and performance.

### **3.0 APPLICABLE DOCUMENTS**

**3.1** The following documents form part of this Purchase Description. Effective dates must be those in effect upon the date of manufacture. Sources are as shown:

- a. VPAM BRV 2009, Guidelines for Testing and Certification of Bullet Resistant Vehicles- Deutsche Hochschule der Polizei, Polizeitechnisches Institut, Postfach 48 03053, 48080 Munster, Germany;
- b. VPAM ERV 2010, Guidelines for Testing and Certification of Bullet Resistant Vehicles - Deutsche Hochschule der Polizei, Polizeitechnisches Institut, Postfach 48 03053, 48080 Munster, Germany;
- c. AEP-55, Vol 3 (Part 1), NATO/NSA, Blvd Leopold III, 1110 Brussels, Belgium; and
- d. The National Safety Mark is affixed to vehicles by vehicle manufacturers who wish to sell their vehicles in Canada. See [http://laws.justice.gc.ca/eng/M-10.01/page-2.html#anchorbo-ga:s\\_3](http://laws.justice.gc.ca/eng/M-10.01/page-2.html#anchorbo-ga:s_3) or

<http://laws.justice.gc.ca/fra/M-10.01/page-2.html>.

3.2 VPAM BRV 2009 defines the bullet resistance classes e.g. VR 7 and VR 9, and the test conditions and practices required to establish proof of resistance.

3.3 VPAM ERV 2010 defines the testing of resistance to blast effects – splinters and pressure. It also defines the practices required to establish proof of resistance.

3.4 AEP-55 defines the testing of resistance to blast of roadside Improvised Explosive Device (IED) threats.

3.5 Paragraph 5.6, defines the added IED protection level parameters. Appendix 1 defines the pass/fail criteria for IED testing.

#### 4.0 REQUIREMENTS

4.1 **Standard Design.** The armoured vehicle design **must**:

- a. Be the base vehicle manufacturer's latest model and the armouring offeror's latest model, that has demonstrated industry acceptability by having been manufactured and sold commercially or, **must** be manufactured by a company that has at least 5 years experience in design and manufacturing of a comparable type of equipment of equivalent or greater complexity. Product brochure **must** be attached to bid submission; and
- b. Include all components and accessories normally supplied as standard for the base vehicle model offered, although they may not be specifically described in this Purchase Description.

4.2 **Features.** The vehicle **must** have the following minimum features:

FEATURE	MINIMUM REQUIREMENT
TRANSMISSION	AUTOMATIC
NUMBER OF DOORS	5
STEERING WHEEL	LHD
ACCELERATION 0-100KPH (SECONDS)	15
ACCEPTABLE MAX SPEED - KPH	120
IED PROTECTION	20KG
ARMOUR SPEC BRV 2009	VR7
ALL WHEEL DRIVE	YES
2 SPEED TRANSFER CASE FOR 4x4	YES
FUEL TANK CAPACITY (LITRES)	90
AUTOMATIC CRUISE CONTROL	YES
PERSONNEL AND PAYLOAD KG	808
ENGINE - Variant I Variant II	Diesel Gas

**4.3 Additional Features.** The vehicle **must** also have the following features

- a. Heavy duty oil, engine and transmission cooler for automatic transmissions;
- b. Radio, AM/FM and CD;
- c. Seats, front high bucket, centre console and folding split rear bench;
- d. Spare tire, full size;
- e. Steering wheel, tilt;
- f. Tires, all season, (5);
- g. Windshield wipers, intermittent; and

- h. 12 Volt Auxiliary power outlets with two auxiliary power outlets and four USB outlets co-located side by side in the following locations:

- (1) Inside the glove box; and
- (2) Inside the console.

**4.4 Operating Conditions.** The vehicles, at specified Gross Vehicle Weight Rating (GVWR), must operate safely and efficiently on paved roads, gravel roads and dirt roads in year round conditions including mud, snow and ice in the temperature range of -32°C to 44°C. They must also operate on roads with severe washboard, pot holes and off-road terrain.

**4.5 Vehicle Safety Regulations.** The vehicle must comply with all applicable laws, regulations and industry standards governing manufacture, safety, noise levels and pollution in the country of manufacture in effect upon the date of manufacture of the vehicle.

**4.5.1 Vehicle Homologation.** To prove roadworthiness of armoured vehicle, offerors must provide third party homologation certificates with their bid.

**4.5.2 Air bags.** A switch with a switch guard must be provided on the console to de-activate air-bags.

**4.5.3 OEM Safety Belts.** The original safety belt system must be retained and positioned inside the pillars at exactly the same location where it was installed by the OEM.

**4.6 Identification.** The following information must be permanently affixed in a conspicuous and protected location:

- a. The manufacturer's name, model number, serial number and model year; and
- b. The GVWR and Gross Axle Weight Rating (GAWR) ratings.

**4.7 Engine.**

**4.7.1** The vehicle must have an engine that provides vehicle performance as described in paragraph 4.2.

**4.7.2** The vehicle must have a fuel tank at least half full when delivered to the destination unless transportation regulations state differently.

**4.7.3** The engine must include a replaceable dry type air filter.

**4.7.4** Cold Starting Aid: The Variant I vehicle must have an engine glow plug or heated intake system. The Variant II vehicle must have a 220 VAC block heater.

**4.8** Transmission. The vehicle must have an automatic transmission with:

- a. A minimum of 5 forward-speed w/overdrive and one speed for reverse; and
- b. The transmission must be Original Equipment Manufacturer (OEM) installed, not an aftermarket option.

**4.9** Wheels.

**4.9.1** Vehicles must be equipped with steel versus alloy wheel rims.

**4.9.2** The spare wheel assembly must be re-located to a position under the rear of the vehicle.

**4.10** Tires And Inserts.

**4.10.1** Tires. The vehicle must have steel-belted, tubeless radial tires that must be rated in accordance with the armoured weight and maximum speed of the vehicle.

**4.10.2** Run Flat Inserts. The vehicle must be equipped with run flat tire inserts including the spare tire. With all tires fully deflated, the vehicle must run for 50km at a speed of 50 km/hour on a hard pack road at weight as described in paragraph 1.1.

**4.11** Suspension System, Shocks And Brakes. To guarantee reliability and road safety, the suspension system, their attachment points, body mounts, shocks and brakes must be modified to meet the expected vehicle weight (curb weight, personnel/ cargo weight of 808KG and armour weight). The brakes must stop the armoured vehicle in the same distance plus ten percent as the un-armoured vehicle.

**4.12 Dual Starter Batteries.** Dual, absorbent glass matte (AGM) type, deep cycle starter battery system with a minimum of 550 CCA each must be provided:

- a. The system must provide simple switchover from main to auxiliary batteries; and
- b. An "ON" / OFF" master battery control switch must be provided and located under the hood, readily accessible to the driver and clearly labelled.

**4.13 Battery Boost Connectors.** A battery boost connection system must be installed behind the front spring loaded license plate holder.

**4.14 Front And Rear Ram Bumpers.** The bumpers on the vehicle must withstand pushing a vehicle of similar size and weight:

- a. Heavy walled box section steel tubing must be located inside the front and rear OEM bumpers. It must be continuous from side to side. The tubing must be oriented so that its widest section is in the horizontal plane;
- b. Reinforcing members of the same construction must be welded to the ram bumpers and extend to the vehicle's frame; and
- c. In lieu of modified OEM bumpers in paragraphs 4.14 a and 4.14 b, an after-market "bull bar" must be used.

**4.15 Communications Equipment Conduit.** A conduit must be installed to allow for connection of internally mounted communications equipment and radios to an externally mounted antenna. Details will be confirmed at production meeting but a maximum of four for a total run length of 20 metres is required. Holes must be drilled in the firewall and the roof to permit antenna lead passage. An armoured cap that affords ballistic protection to that part of the roof equal to that of the remainder of the roof must cover the holes. On the inside of the vehicle the armoured cap must be a minimum of 10.2 by 15.3 mm (4 in by 6 in) to allow hand access to the roof future antenna connectors without sliding the plate out of the way. All holes must be weatherproofed.

#### 4.16 Exhaust Screen.

- a. A wire mesh must be installed across or inside the tailpipe to prevent the insertion of items larger than 9 mm (0.35 inch) in diameter;
- b. The structure of the wire mesh must have minimal effect on the backpressure of the OEM exhaust system; and
- c. Small hole(s) must be drilled in the exhaust pipe over a length of at least 200 mm from the end if possible, to prevent tail pipe blocking.

**4.17 Fuel Filler Door.** The fuel filler cap must be covered by a door that can only be activated from inside the vehicle.

**4.18 Fire Suppression Systems.** Two fire suppression systems must be installed: one for the engine compartment and one for the passenger compartment.

##### 4.18.1 Both systems must

- a. Incorporate a flash and flame sensor;
- b. Discharge manually by a switch located within reach of the driver and another switch within reach of rear passengers. A switch guard to prevent accidental discharge must protect the switches. The switches must be clearly labelled;
- c. The fire suppressant must
  - not cause damage to the engine should it be drawn into the engine air intake when the engine is running.
  - be environmentally friendly and not hazardous to personnel.
- d. If the fire suppression canisters are located in the baggage compartment, suitable protection in the form of a cage or box must be provided to preclude damage from articles placed in the baggage compartment, and

- e. Two spare canisters must be supplied. All canisters are to be disconnected and placed in an appropriate HAZMAT container to facilitate shipping of the vehicle.

**4.18.2** The engine compartment system must be self-discharging when a temperature sensor mounted on the firewall reaches 180° C.

**4.19 Tool Kit and Tow Rope.**

- a. A tool kit must be provided with the vehicle. Sufficient tools must be provided to change the spare tire, including appropriate hydraulic jacks to lift and sustain the vehicle whilst the tire is being changed. They must lift and sustain the lift of one third to one half of the modified gross vehicle weight.
- b. A tow rope must be provided with all vehicles. It must have a minimum length of six metres with a rated pull capacity to 14,000 KG.
- c. This equipment must be securely fastened in the cargo compartment so as to prevent movement whilst the vehicle is in motion, or in the event of a collision.

**4.20 Communication System.** The electronic system must enable the driver to communicate orally with a person standing beside the outside of the driver's door.

**4.21 Alarm System.** The alarm system must activate audible and visual indicators when the alarm is triggered due to:

- a. The hood or one of the doors is forced open, or
- b. The vehicles is bumped or moved forcibly; or
- c. The main battery is disconnected.

**4.22 Siren/Air Horn.** This system must enable the driver to make noise through a multi-tone siren and air horn to allow the vehicle to move expeditiously in an emergency situation or to allow broader movement through heavy traffic.

**4.23 Manual Dead Bolts.** Spring loaded, quick activation dead bolts to prevent unwanted door opening must be fitted to the inside of the driver/passenger doors. They must be operated manually from inside the vehicle. Accidental activation/de-activation must not be possible.

**4.24 Rust Protection.** The vehicle must have underbody rust protection. Trade name of undercoating must be supplied with bid.

**4.25 Paint Colour.** The vehicle must be painted silver. The chassis components may be painted the manufacturer's standard colour.

**4.26 Miscellaneous Equipment.** The vehicle must be equipped with the following miscellaneous equipment:

- a. Spring loaded License plate holders, front and rear; and
- b. Two forged recovery tow points, each rated for 4,500 KG, mounted throat up at the front and at the rear of the vehicle. The hooks and mountings must be of sufficient strength to permit the recovery or facilitate air-transportation of the fully loaded vehicle. Tow points must be mounted on the vehicle frame such that the entire weight of the vehicle can be supported by each individual tow point.

## **5.0 PROTECTION**

**5.1 General.** In addition to the vehicular features listed in paragraph 4.0, features as described below must apply, where specified, to protect the vehicle and crew against the effects of grenade/blast mine/IED explosions and small arms fire as described in reference publications paragraph 3.0.

### **5.2 Transparent Armour.**

**5.2.1** All OEM glazing must be removed and replaced with no spall glass/polycarbonate composite transparent armour.

**5.2.2** All transparent armour must be formed to the OEM glazing curvature and must afford lateral ballistic resistance as per paragraphs 3.1 a and b.

5.2.3 All transparent armour must be of high optical quality. Glazing must not contain irregularities, which distort the driver's vision or provide a hindrance to the safe operation of the vehicle.

5.2.4 The transparent armour and the opaque armour that surrounds it must be designed and installed so that there is a minimum overlap of 20 mm (0.79 inch) between these armours on all edges.

5.2.5 The driver's side front door window must be operable and must drop a minimum of 100 mm (3.94 inches), but must not exceed 125 mm (4.92 inches). All other windows must be made completely inoperable.

5.2.6 All glazing must be edge protected to prevent damage from any possible glass / metal contact with either the vehicle body or adjacent armour installation.

#### 5.2.7 Window Tinting.

5.2.7.1 Tinting applications for transparent armour must not be applied on the front windshield, driver's side window and front passenger's side window.

5.2.7.2 The tinting process for rear passenger windows & rear windshield must not diminish the performance of the transparent armour nor result in a reduction in its life span.

#### 5.3 Opaque Armour.

5.3.1 Opaque armour must be installed in the vehicle to provide ballistic and blast protection as per paragraphs 3.1 a, and b. Armour may be steel, ceramic or composite material.

5.3.2 The opaque armour must cover the entire perimeter of the passenger compartment including firewall and roof with the exception of the transparent armour areas.

5.3.3 The opaque armour must be overlapped at joints, seams and adjacent are as a minimum of 20 mm (0.79 inch). In the case of a butt joint that requires a cover plate, if the gap between the plates is less than 1.5 mm (0.05 inch) wide then the cover plate can be high hardness steel 3 mm

(0.12 inch) thick. If the joint is wider than 1.5 mm (0.05 inch), then the cover plate must be constructed of the same material as the parent plates.

**5.3.4** Openings cut into the opaque metal armour to provide access for locking mechanisms, mirrors, etc., must be boxed with equivalent armour material to meet the overlap requirements of paragraph 5.3.3 and the ballistic protection requirements of paragraph 3.1.

**5.3.5** Any fasteners or devices not specifically addressed in this specification, but necessary to secure the armour materials in place, must be designed and installed so as to not present a hazard within the vehicle as a result of ballistic and blast impact from the threats delineated in paragraph 3.1. Prior approval from the Technical Authority in their application must be sought prior to their use.

**5.3.6** The surfaces of all metallic armour material must be coated with zinc chromate or equivalent rust inhibitor.

#### **5.4 Floor Armour.**

**5.4.1** Floor armour must be installed inside the vehicle to provide grenade and blast mine protection as per paragraph 3.1. The armour may be steel, ceramic or composite material.

**5.4.2** The armour must cover the floor entirely from the firewall to the rear of the passenger compartment and from side doorsill to side doorsill.

**5.4.3** The floor armour must provide minimum acceptable protection level to withstand blasts underneath the vehicle from one DM 31 anti-personnel mine or similar blast equivalent located on the ground, under the driver's side front wheel.

**5.4.4** There must be no openings apart from bolt holes and seat-mounting brackets.

**5.4.5** All welds must be continuous to ensure integrity against a blast event.

## 5.5 Roof Armour.

5.5.1 Roof armour must be installed inside the vehicle to provide ballistic and grenade protection as per paragraphs 3.1 a and b. The armour may be steel, ceramic or composite material.

5.5.2 The roof armour must provide minimum acceptable protection level to withstand blasts from two (2) DM51 German ordnance grenades or similar blast equivalent located on the roof, directly over the driver's seat.

5.5.3 There must be no openings apart from armoured antenna leads.

5.5.4 All welds must be continuous to ensure integrity against a blast event.

5.6 IED Protection. The vehicle must be provided with IED protection to protect against a 20 kg TNT (or equivalent) explosive detonated parallel to the vehicle "B" pillar at a distance of two (2) metres away and at a height of one (1) metre above ground level.

## 5.7 Vehicle Body Reinforcement.

- a. The doors and door hinges must be reinforced to maintain the original geometry and to prevent the doors from sagging during daily use for a period of five years;
- b. Photographs of the pillar reinforcement to be incorporated into the vehicle must be submitted with the bid;
- c. Pillars must have full reinforcements from top to bottom;
- d. All doors must have check straps to prevent over extension of the door upon opening;
- e. Where a rear compartment ballistic door has been installed, there must be a doorstop mounted in such a manner as to prevent the back door from over extending when opened; and

- f. Vehicle side doors must have gas shocks installed to prevent accidental closing of the doors.

**5.8 Fuel Tank.** Underneath and on the sides, the vehicle fuel tank must be protected to mitigate the effects of blast/ballistic attack or open flame near fuel cell. All fuel lines leading to the fuel tank must have the same level of protection as the fuel tank.

**5.9 Armour Covered Servicing Points.** The vehicle must incorporate an opening/securing mechanism that allows for quick removal of required armour components for vehicle servicing and inspection. The maximum removal time of each component must be one minute without the use of any tools.

**5.10 Finish.** All surfaces that have been reworked or had finishes/coverings removed during the armoring process, must be finished to the same standard as the OEM finish. Carpeted areas must be re-finished with the same carpet unless otherwise specified. Felt trim must not be installed anywhere in the vehicle. Overlaps in carpeted areas must be trimmed with leather. Artificial leather must not be accepted.

## **6.0 INTERGATED LOGISTICS SUPPORT**

**6.1 Manuals.** The following must be provided in French and English or if English only, the offeror must provide written authority from the OEM for the Department of National Defence to translate into French:

- a. Two copies in non-password protected electronic format and print of all manufacturers' installation and maintenance manuals for the ancillary equipment. One copy must be delivered to the TA and one copy must accompany the vehicle;
- b. One print format copy of the operators manual must be placed in the glove compartment of the vehicle; and
- c. Two copies in non-password protected electronic format and one print format of parts and service manuals. One copy must be delivered to the TA and one copy must be placed in the glove compartment of the vehicle.

**6.2 Data Summary.** A Data Summary Template will be provided by the Technical Authority, upon signing the contract. The Data Summary must be completed by the contractor by filling in the required data and adding two (2) digital pictures, with a clear uncluttered background, of the vehicle make/model

- one of the left front three-quarter view, and
- one of the right rear three-quarter views.

### **6.3 Parts Lists**

**6.3.1** A listing of the parts that are required to perform preventive maintenance to the vehicle for a period of six (6) months is to be provided to the TA and to the delivery recipient upon delivery of the vehicle. Components such as brake components, fan belts and fuses must be included. The list must include, as a minimum, the following elements:

- a. Part description;
- b. Original Equipment Manufacturer Part number; and
- c. Suggested quantity.

**6.3.2** A listing of such parts added to or changed from OEM parts whilst armouring the vehicle must be provided to the TA and to the delivery recipient upon delivery of the vehicle. The list must include, as a minimum, the following elements:

- a. Part description; and
- b. Original Equipment Manufacturer Part number.

**6.4 List of Special Tools.** A list detailing the special tools required for the vehicle (that would not be included in a basic mechanics toolbox) is to be provided to the TA, upon delivery of the vehicle. This must include items such as special wrenches, extraction devices and special diagnostic tools.

**6.5 Labelling.** All ancillary equipment located under the hood and inside the vehicle must be easily identifiable and labelled.

**6.6 Warranty Certificate.** A warranty certificate must be placed in the glove compartment of the vehicle and a copy must be forwarded to the TA.

**6.7 Technical Information.** The following must be provided to the TA at inspection and acceptance of the vehicle by the TA:

- a. The installation procedures and materials used in installing all armoured glazing;
- b. Wiring diagrams for all ancillary equipment and all changes made to the OEM wiring harness;
- c. The following weight data:
  - (1) Total Curb Weight (armoured and unarmoured);
  - (2) Curb Weight front and rear axle (armoured);
  - (3) Gross Vehicle Weight Rating (armoured and unarmoured).
- d. A manufacturer's number must be assigned to each vehicle. Only this number must be used to reference the vehicle or the parts and labour associated to it. Under no circumstances must the customer's identity, the standards names or the vehicle identification numbers be placed on certification, manufacturing or administrative documents; and
- e. An air freight tie-down map.

## **7.0 SUPPORT CONCEPT**

**7.1** This vehicle must be serviced in Afghanistan by qualified personnel through programs set-up by the offeror.

## **8.0 CERTIFICATION**

**8.1 Complete Vehicle Validation.** Testing of the vehicle protection system, on a complete vehicle by a third party, must have been conducted to prove that the vehicle protection system meets the ballistic and IED protection

requirements listed in paragraphs 3.1(a), 3.1(b), 3.1(c), 4.2 and 5.6.

**8.2** Where certification is required, the Offeror must provide a certified copy of the original ballistic and blast report and certification with bid as issued by Beschussamt Ulm, Beschussam Mellrichstadt, Beschussam Munich, IABG Lichtenau or QuinettiQ UK.

**8.3** Blast tests underneath the vehicle must have been conducted with a Hybrid III ATD and vehicle side blast tests with a EURO Side Impact Dummy (SID). They must have been correctly positioned on the front seat nearest to the explosion, without simulations or variations. (See Appendix 1 - IED Pass/Fail Criteria).

**8.4** Inspections by a representative of DND and/or the TA may take place at any time during the armouring process at the discretion of the TA.

Appendix 1  
Annex B  
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### IED PASS/FAIL CRITERIA

The pass/fail criteria for the IED testing are as defined in AEP-55, Volume 3 as shown in the following table;

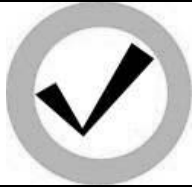
BODY REGION	CRITERION	IARV	PASS LEVEL
Head	Head Injury Criterion	$HIC_{16}$	250
Neck	Axial Tension Force	$Fz+$	2.1 kN
Shoulder	Compression Force	$Fy$	1.5 kN
Ribs (upper/middle/lower)	Rib Deflection Criterion	$RDC_{lateral}$	28mm
Thorax	Viscous Criterion	$VC_{lateral}$	0.58 m/s
Pressure	Chest Wall Velocity Predictor	CWVP	3.6 m/s
Abdomen (Front/Middle/Rear)	Abdominal Peak Force	$F_{total}$	1.8 kN
Spine	Dynamic Response Index	$DRI_z$	17.7
Pelvis	Maximum Pubic Force	$Fy$	2.6 kN
Tibia (Denton Leg)	Axial Compression Force	$Fz-$	5.4 kN

Appendix 2  
Annex B  
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#### ABREVIATIONS

Amp	Ampere
AEP	Allied Engineering Practice
AIS	Abbreviated Injury Scale
ASII	Adjusted Severity Of Injury Index
ATD	Anthropomorphic Test Device
CCA	Cold Cranking Amperes
CEN	Central European Normalization
DND	Department Of National Defence
DSVPM	Directorate Support Vehicles Program Management
Fz	Force In Z-direction (Axial force)
DRI	Dynamic Response Index
GAWR	Gross Axle Weight Rating
GVWR	Gross Vehicle Weight Rating
IED	Improvised Explosive Device
ISO	International Standards Organization
MAX	Maximum
MIN	Minimum
My	Bending Moment Around Y Axis
NATO	North Atlantic Treaty Organization
Norm	Normalization
OEM	Original Equipment Manufacturer
PU	Pick up
SPEC	Specification
STANAG	Standardization Agreement
SUV	Sports Utility Vehicle
Upfitter	Company that adds armour and associated items to an OEM vehicle
Veh	Vehicle
VPAM	Vereinigung der Prufstellen fur angriffs-hemmende Materialien und Konstruktionen

Annex C  
W8476-175515  
6 Jul 2016



**NOTICE**

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

**AVIS**

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

**TECHNICAL INFORMATION QUESTIONNAIRE**  
**FOR**  
**ARMOURED SPORTS UTILITY VEHICLES**

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**OPI DSVPM 4 – DAPVS 4**

Issued on Authority of the Chief of the Defence Staff

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

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W8476-175515

22 June 2016

**TECHNICAL INFORMATION QUESTIONNAIRE  
FOR  
ARMOURED SPORTS UTILITY VEHICLES**

This questionnaire covers technical information, which **must** be provided for evaluation of the configuration(s) of the vehicle(s) offered.

Where the specification paragraphs below indicate "Proof of Compliance", the "Proof of Compliance" **must** be provided for each performance requirement/specification.

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

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

**OFFEROR INFORMATION**

**Offeror Name**

**Proposed Make:** \_\_\_\_\_ **Model:** \_\_\_\_\_

**SUPPLIER CAPABILITY EVALUATION CHECK LIST**

**PURCHASE DESCRIPTION PARAGRAPHS**

**4.1 Standard Design - Proof of Compliance**

	Found in Document Name/Title	Page Number
4.1.a		

**4.2 Features - Proof of Compliance**

	Found in Document Name/Title	Page Number
4.2		

**4.3 Additional Features - Proof of Compliance**

	Found in Document Name/Title	Page Number
4.3.a		

4.3.c		
4.3.d		
4.3.e		
4.3.f		
4.3.g		
4.3.h		

#### 4.4 Operating Conditions - Proof of Compliance

	Found in Document Name/Title	Page Number
4.4 Operating Conditions		

#### 4.5 Vehicle Safety Regulations - Proof of Compliance

	Found in Document Name/Title	Page Number
4.5		
4.5.1		
4.5.2		
4.5.3		

#### 4.7 Engine - Proof of Compliance

	Found in Document Name/Title	Page Number
4.7.3		
4.7.4		

#### 4.8 Transmission - Proof of Compliance

	Found in Document Name/Title	Page Number
4.8.a		
4.8.b		

#### 4.9 Wheels - Proof of Compliance

	Found in Document Name/Title	Page Number
4.9.1		
4.9.2		

#### 4.10 Tires And Inserts - Proof of Compliance

	Found in Document Name/Title	Page Number
4.10.1 Tires		
4.10.2 Inserts		
4.10.2 Inserts Operating Range		

#### 4.11 Suspension System, Shocks And Brakes - Proof of Compliance

	Found in Document Name/Title	Page Number
4.11		

#### 4.12 Dual Starter Batteries - Proof of Compliance

	Found in Document Name/Title	Page Number
4.12		
4.12.a		
4.12.b		

#### 4.13 Battery Boost Connectors - Proof of Compliance

	Found in Document Name/Title	Page Number
4.13		

#### 4.14 Front And Rear Ram Bumpers - Proof of Compliance

	Found in Document Name/Title	Page Number
4.14		

#### 4.15 Communications Equipment Conduit - Proof of Compliance

	Found in Document Name/Title	Page Number
4.15		
4.15 Holes		
4.15 Caps		

#### 4.16 Exhaust Screen - Proof of Compliance

	Found in Document Name/Title	Page Number
4.16.a		
4.16.b		
4.16.c		

#### 4.17 Fuel Filler Door - Proof of Compliance

	Found in Document Name/Title	Page Number
4.17		

#### 4.18 Fire Suppression System - Proof of Compliance

	Found in Document Name/Title	Page Number
4.18		

4.18.1a		
4.18.1b		
4.18.1c		
4.18.1d		
4.18.1e		
4.18.2		

#### 4.19 Tool Kit And Tow Rope - Proof of Compliance

	Found in Document Name/Title	Page Number
4.19.a		
4.19.b		
4.19.c		

#### 4.20 Communication System - Proof of Compliance

	Found in Document Name/Title	Page Number
4.20		

#### 4.21 Alarm System - Proof of Compliance

	Found in Document Name/Title	Page Number
4.21		

#### 4.22 Siren/Air Horn - Proof of Compliance

	Found in Document Name/Title	Page Number
4.22		

#### 4.23 Manual Dead Bolt System - Proof of Compliance

	Found in Document Name/Title	Page Number
4.23		

#### 4.24 Rust Protection - Proof of Compliance

	Found in Document Name/Title	Page Number
4.24		

#### 4.25 Paint Colour - Proof of Compliance

	Found in Document Name/Title	Page Number
4.25		

#### 4.26 Miscellaneous Equipment - Proof of Compliance

	Found in Document Name/Title	Page Number
4.26.a		
4.26.b		

#### 5.2 Transparent Armour - Proof of Compliance

	Found in Document Name/Title	Page Number
5.2.1		
5.2.2		
5.2.3		
5.2.4		
5.2.5		
5.2.6		

#### 5.2.7 Window Tinting - Proof of Compliance

	Found in Document Name/Title	Page Number
5.2.7.1		
5.2.7.2		

#### 5.3 Opaque Armour - Proof of Compliance

	Found in Document Name/Title	Page Number
5.3.1		
5.3.2		
5.3.3		
5.3.4		
5.3.5		
5.3.6		

#### 5.4 Floor Armour - Proof of Compliance

	Found in Document Name/Title	Page Number
5.4.1		
5.4.2		
5.4.3		
5.4.4		
5.4.5		

#### 5.5 Roof Armour - Proof of Compliance

	Found in Document Name/Title	Page Number
5.5.1		
5.5.2		
5.5.3		
5.5.4		

#### 5.6 Added IED Protection - Proof of Compliance

	Found in Document Name/Title	Page Number
5.6		

#### 5.7 Vehicle Body Reinforcement - Proof of Compliance

	Found in Document Name/Title	Page Number
5.7.a		
5.7.b		
5.7.c		
5.7.d		
5.7.e		
5.7.f		

#### 5.8 Fuel tank - Proof of Compliance

	Found in Document Name/Title	Page Number
Protection		
Fuel Lines		

#### 5.9 Armoured Covered Service |Points - Proof of Compliance

	Found in Document Name/Title	Page Number
5.9		
Removal Time		

#### 5.10 Finish - Proof of Compliance

	Found in Document Name/Title	Page Number
Surfaces		
Carpeted areas		
Carpet Overlap		

#### 7.0 Support Concept - Proof of Compliance

	Found in Document Name/Title	Page Number
7.1		

#### 8.0 Certification- Proof of Compliance

	Found in Document Name/Title	Page Number
8.1		
8.2		
8.3		

## **DEFINITIONS**

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

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