

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Public Works and Government Services Canada**  
**Telus Plaza North/Plaza Telus Nord**  
**10025 Jasper Ave./10025 ave. Jaspe**  
**5th floor/5e étage**  
**Edmonton**  
**Alberta**  
**T5J 1S6**  
**Bid Fax: (780) 497-3510**

## INVITATION TO TENDER APPEL D'OFFRES

**Tender 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.

### **Soumission 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 et 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**

Public Works and Government Services Canada  
Telus Plaza North/Plaza Telus Nord  
10025 Jasper Ave./10025 ave Jasper  
5th floor/5e étage  
Edmonton  
Alberta  
T5J 1S6

<b>Title - Sujet</b> Remote Control System	
<b>Solicitation No. - N° de l'invitation</b> W7702-145614/A	<b>Date</b> 2013-06-28
<b>Client Reference No. - N° de référence du client</b> DRDC	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$EDM-101-9857
<b>File No. - N° de dossier</b> EDM-3-36052 (101)	<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 2013-08-12</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Mountain Daylight Saving Time MDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Clark-Davies, Brodie	<b>Buyer Id - Id de l'acheteur</b> edm101
<b>Telephone No. - N° de téléphone</b> (780) 497-3956 ( )	<b>FAX No. - N° de FAX</b> (780) 497-3510
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE Defence R&D Canada Suffield Bldg 560 Receiving Ralston Alberta T0J 2N0 Canada	

**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>

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**PART 1 - GENERAL INFORMATION****1. Security Requirement**

There is no security requirement associated with this bid solicitation.

**2. Requirement**

The requirement is detailed under Annex A - Requirement.

**3. Debriefings**

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

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

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

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### **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 in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the 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 the province of Alberta.

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

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **1. Bid Preparation Instructions**

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

Section I: Technical Bid ( 1 hard copy)

Section II: Financial Bid ( 1 hard copy)

Section III: Certifications ( 1 hard copy)

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

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)

(<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 8.5 x 11 inch (216 mm x 279 mm) 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.

#### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

#### **1.1 Exchange Rate Fluctuation**

C3011T (2010-01-11), Exchange Rate Fluctuation

#### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

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

### **1. Evaluation Procedures**

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

### **1.1 Technical Evaluation**

#### **1.1.1 Mandatory Technical Criteria**

Compliant with Annex A, Requirement

### **1.2 Financial Evaluation**

*SACC Manual* Clause A0220T (2013-04-25) Evaluation of Price

### **2. Basis of Selection**

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

## PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation 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 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, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### 1. Mandatory Certifications Required Precedent to Contract Award

#### 1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

### 2. 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 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.

#### 2.1 Federal Contractors Program - Certification

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal 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.

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

( ) 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;

( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;

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*( ) 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;*

*( ) has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: \_\_\_\_\_ .*

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



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

### **1. Security Requirement**

There is no security requirement applicable to this Contract.

### **2. Requirement**

The Contractor must provide items including installation, demonstration, and training in accordance with the Requirement at Annex "A".

### **3. Standard Clauses and Conditions**

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

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

#### **3.1 General Conditions**

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the contract.

### **4. Term of Contract**

#### **4.1 Delivery Date**

All the deliverables must be received and installation/training completed on or before October 6, 2013.

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Brodie Clarke-Davies  
Public Works and Government Services Canada  
Acquisitions Branch  
Western Region  
5th floor Telus Plaza North  
10025 Jasper Avenue  
Edmonton, Alberta T5J 1S6  
Telephone: 780-497-3956  
Fax: (780) 497-3510  
E-mail address: Brodie.Clarke-Davies@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.

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## 5.2 Project Authority

The Project Authority for the Contract is: **To be determined**

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

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

Organization: \_\_\_\_\_

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

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

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

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

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

## 5.3 Contractor's Representative:

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

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

Organization: \_\_\_\_\_

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

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

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

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

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices as specified in Annex "B"- Basis of Payment. Customs duties are included and Applicable Taxes are extra.

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

### 6.2 SACC Manual clause H1000C (2008-05-12), Single Payment

### 6.3 SACC Manual Clauses

SACC Manual clause C2000C (2007-11-30), Taxes - Foreign-based Contractor

## 7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 8. Certifications

### 8.1 Compliance

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

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2013-04-25), General Conditions - Goods (medium complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_

## 11. Defence Contract

*SACC Manual* clause A9006C (2012-07-16), Defence Contract

## 12. SACC Manual Clauses

*SACC Manual* clause A9062C (2011-05-16), Canadian Forces Site Regulations

*SACC Manual* clause B1501C (2006-06-16), Electrical Equipment

*SACC Manual* clause B7500C (2006-06-16), Excess Goods

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*SACC Manual* clause G1005C (2008-05-12), Insurance

## **ANNEX "A"**

### **REQUIREMENT**

#### **Title**

#### **LAV III Tele-Operation System**

#### **Background**

The Military Engineering Section at Defence R&D Canada Suffield (DRDC) has a requirement to support a multi-national trial series involving a LAV III light armoured vehicle. In order to maintain personnel safety, the vehicle will need to be remotely operated at a distance of 2000 meters or greater from the operator during the trials.

Because of the timelines involved, the system must be a proven off-the-shelf product with a demonstrated record of successful installations and operations in similar vehicles. A simple statement of intent or ability to comply will not be acceptable. Supporting documentation or a description of how similar requirements have been met in previous applications must be provided.

#### **Objective**

The goal of the contract is to install a remote control system on a LAV III armoured vehicle at DRDC Suffield before trials in October 2013.

#### **Scope of Work**

The contractor will be required to supply, install, and demonstrate a remote control system for the vehicle. The system must also comprise an operator control unit and radio communications to operate and monitor the vehicle at a distance. The contract deliverable will also include operator and maintenance training for the DRDC personnel. Detailed mandatory requirements are provided below.

The system will normally be tele-operated using an on-board video feed transmitted to the control station, but the vehicle may also be used to follow pre-programmed GPS paths. Trials will be conducted in a prepared, obstacle-free test area on flat prairie terrain. As such, no autonomy or obstacle avoidance is required on-board the vehicle.

In order to meet this requirement, at a minimum the system must actuate the vehicle steering, throttle, brakes, and transmission. Monitoring and feedback of the vehicle speed, GPS position, heading, engine RPM, battery level, brake status, and transmission status must be provided at the operator control unit in

real time. The system must also provide real time video to the operator with low latency, and a measure of radio link quality.

### **Meetings**

The contractor will be required to travel to DRDC Suffield to conduct the installation on the vehicle, install the control station system, and to provide training to DRDC staff.

### **Reports and Deliverables**

The contractor will deliver all of the equipment and software required to operate the complete system, including but not limited to:

- All actuators and wiring for vehicle control.
- Sensors and wiring for vehicle system feedback (ie. engine speed, GPS position, etc).
- Cameras, cables, and transmitters for on-board video.
- GPS cables, antennas, and processing hardware for autonomous waypoint following.
- Radios, cables, and antennas for data and video links on both the vehicle and operator control unit.
- Computers for data processing, storage, and vehicle control.
- All required cables and electrical/electronic components for system operation such as relays and power supplies.
- Robust vehicle mounting of components.
- Software for processing and control on-board the vehicle.
- Software for operator control unit.
- Physical installation of all components on the vehicle.
- Operating manuals for both the vehicle and the operator control unit.
- Test and demonstration of fully functional system on the LAV III vehicle at DRDC Suffield.
- Training for DRDC staff on the complete systems.

### **Government Furnished Support**

DRDC Suffield shall provide the LAV III vehicle for installation at DRDC Suffield, and an indoor facility to install components on the LAV III vehicle. DRDC will also provide an outdoor test area to test and demonstrate the completed system. A suitable facility will also be provided for the installation and demonstration of the operator control unit with AC power and antenna mounting. If required, DRDC Suffield will supply a laptop computer and joystick to be used for the OCU installation.

Any special tools or equipment (including computer software) for installation, calibration, or testing of the system shall be provided by the contractor or identified ahead of time.

### **Special Considerations**

Installation and test of the completed system will be conducted on-site on the Experimental Proving Ground at DRDC - Suffield. The contractors on-site personnel must adhere to all applicable safety

regulations and procedures, and will be provided with a mandatory Range Safety Briefing and orientation as necessary. They will also be escorted by DRDC personnel at all times when at DRDC Suffield.

Travel and lodging expenses for work at DRDC Suffield shall be included in the contractor bid price.

The system must be unencumbered by restrictions due to International Traffic in Arms Restrictions or similar Canadian Controlled Goods restrictions.

### **Acceptance Criteria**

The work will be monitored regularly in order to ensure adherence to the work plan and to approve any modifications that are required. Acceptance will be determined following examination, satisfactory completion, and approval of the work by the Technical Authority after successful demonstration of the completed system at DRDC Suffield according to the Mandatory Criteria detailed below.

### **Additional Information**

#### **Intellectual Property**

The contractor will be allowed to retain all Foreground Intellectual Property (IP) generated during the conduct of this work. The Contractor shall not publish or otherwise distribute reports generated or their contents to third parties without the written consent from the Technical Authority, who will respond to a request within 30 days of receipt.

The Government of Canada shall have the right to remove the system from the LAV III vehicle and re-install it in other vehicles at will, with no restriction by the contractor.

Delivery, installation, and training is mandatory to be completed no later than October 6, 2013

Training must include operator and maintenance training for DRDC personnel. Training must be conducted at DND site.

Access to the vehicle for installation, debugging, and training can occur from 01-29 September 2013, and/or on the weekend of 05-06 October. Access to the vehicle will not be possible outside of these times. Within these time constraints, the system must be delivered, installed, debugged, and operational with all the training completed.

Please indicate below:

Able to Meet Delivery Requirement \_\_\_\_\_

OR

Unable To Meet Delivery Requirement \_\_\_\_\_

**Minimum Performance Specifications:**

To be considered responsive an offer must clearly indicate compliance or noncompliance with each article below by inserting Yes or No under the Comply Column.

To demonstrate compliance, Bidders must also include and appropriately cross reference published technical information that confirms compliance with each mandatory criterion specified herein (unless stipulated as not applicable for this item).

If published technical documentation does not exist for a specific requirement, then a written narrative explaining how the product offered meets the specification must be included with the Proposal. Failure to comply with any of the mandatory technical requirements will disqualify the bid from further consideration.

To ensure compliance is clear, the bidder must utilize a numbering system that corresponds to the numbering system below. An example of an acceptable system would be to indicate the specification reference number on a Tab stuck to the appropriate page of the technical documentation. The appropriate article of the technical documentation that demonstrates compliance should then be highlighted or underlined.



Item	Mandatory Requirements	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-referenc e)	Comments (For use by Evaluation Team Only)
<b>General Requirements:</b>				
1	Contractor shall demonstrate that their system has been installed, accepted and used by a consumer on a LAV III or Stryker vehicle. Must provide documentation of proof.			
2	The contractor shall demonstrate that their system has been successfully used on a LAV III (or Stryker) vehicle plus a minimum of 3 other types of military vehicles. Must provide documentation of proof.			
3	The contractor shall demonstrate the ability from previous projects to install, configure, and demonstrate effective operation of their system within 5 working days. Must provide documentation of proof.			
4	The system shall include a one year warranty on parts and labour.			
5	The contractor shall provide technical support for a period of 60 days after the product installation. This shall include phone and email contact and technical support staff from 8 am to 6 pm MST. Must also include adequate access to software updates and replacement parts to maintain vehicle functionality.			
6	No Controlled Goods, Controlled Goods Technical Data, or ITAR restricted goods or technical data shall be exchanged through this contract. The remote control system, all of its components and documentation shall not be subject to ITAR, Controlled Goods, or similar restrictions.			
<b>Overall System Requirements:</b>				
7	The system shall be capable of tele-operating the vehicle at speeds up to 50 km/hr on smooth paved surfaces			
8	The system shall include a remote emergency stop system capable of halting the vehicle under all circumstances from the operator control unit within the stated operating range of the remote control system.			
9	If the communications link is broken, the vehicle shall automatically be brought to a stop within 5 seconds from a speed of 50 km/hr.			

Item	Mandatory Requirements	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-referenc e)	Comments (For use by Evaluation Team Only)
10	The system shall have on-board monitoring capabilities such that it will automatically halt the vehicle in the case of any sensor, actuator or computer malfunction.			
11	The vehicle shall be capable of following pre-determined GPS waypoints provided in a teach-and-repeat manner by recording driving sessions and saving them for later use.			
12	The system shall be switchable between man-driveable and tele-operated configurations.			
<b>Vehicle Requirements:</b>				
13	The system installation shall not require any through-hull penetrations on the vehicle. It is not necessary that the vehicle be operated in a hatches closed configuration, so existing hatches or ports may be used for wiring.			
14	The system should be installed without requiring any permanent modifications made to the vehicle.			
15	The installation and mounting on the vehicle shall be robust enough to allow off-road cross-country travel on the DRDC Suffield range at speeds up to 20 km/hr without damage to the system.			
16	The system shall be either self-powered or operate off the vehicle-provided unconditioned 24VDC electrical system.			
17	The system shall provide actuation of throttle, brake, steering and transmission systems.			
18	Equipment mounted on the outside of the vehicle must remain fully functional in rain and within a temperature range of -10 to +50 degrees Celsius.			
<b>Communication Requirements:</b>				
19	The vehicle radio communication systems will follow either (1) the license-exempt radio apparatus category 1, equipment as defined by Industry Canada Spectrum Management and Telecommunications guidelines document RSS-210 or (2) operate under the definitions of a license obtained by application to Industry Canada.			
20	Vehicle shall be capable of being reliably and safely tele-operated at all line-of-sight distances up to 2000 m or greater.			

Item	Mandatory Requirements	Comply (Bidder shall indicate Yes or No)	Supporting Information (Bidder shall indicate cross-referenc e)	Comments (For use by Evaluation Team Only)
<b>OCU Requirements:</b>				
21	The OCU system shall use software capable of running on a Windows 7 computer.			
22	The operator control unit shall be either a dedicated contractor provided device, or a DRDC provided laptop computer.			
23	The system shall provide feedback of vehicle speed, GPS position, heading, engine RPM, battery level, brake status, transmission status, and radio link quality.			
24	The system shall be capable of providing colour video feedback with a maximum latency of 300 milliseconds at a rate of 30 frames per second and a minimum resolution of a minimum of 640x480 pixels at minimum distance of 2000 m.			

Make and Model of product being offered: \_\_\_\_\_

Bids which do not meet all of the Minimum Specifications listed above will be deemed non-compliant and given no further consideration.

If, upon delivery and acceptance, the product is found to not meet the Minimum Specifications, the product will be returned at the suppliers expense and the Contract will be terminated for default.

**Annex "B"****Basis of Payment**

The Firm Unit Price must be FOB Destination and include all delivery and off-loading charges to:

Defence R&D Canada Suffield  
Bldg 560 Receiving  
Ralston, Alberta T0J 2N0

Firm Unit Prices do not include GST, however GST will be added as a separate line item to any invoice issued as a result of a Contract.

The Firm Lot Price for the installation, testing, and training must include all costs for labour, materials, equipment, tools, travel/meals/lodging, and supervision necessary to provide the work.

All prices must be in Canadian dollars.

Item	Description	Qty.	Firm Unit Price	Extended Price
1	Remote Control Unit for a light armored vehicle (LAV III) in compliance with the Requirement and the Minimum Performance Specifications as outlined in Annex A	1	\$_____/lot	\$_____
2	Installation, Testing, Demonstration as outlined in Annex A	1	\$_____/lot	\$_____
3	Training for DRDC personnel as outlined in Annex A	1	\$_____/lot	\$_____
<b>Total Bid Price:</b>				\$_____