

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
PO Box 1408, Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3C 2Z1
Bid Fax: (204) 983-0338

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government Services Canada

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

Proposition aux: Travaux Publics et Services Gouvernementaux Canada

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

Comments - Commentaires

Title - Sujet Airborne RF-Based Surveillance Syst	
Solicitation No. - N° de l'invitation W0117-12DE03/A	Date 2012-07-16
Client Reference No. - N° de référence du client W0117-12DE03	
GETS Reference No. - N° de référence de SEAG PW-\$WPG-202-8113	
File No. - N° de dossier WPG-2-35059 (202)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-08-27	
Time Zone Fuseau horaire Central Daylight Saving Time CDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Kozak, Tammy	Buyer Id - Id de l'acheteur wpg202
Telephone No. - N° de téléphone (204) 984-8825 ()	FAX No. - N° de FAX (204) 983-7796
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE 17 WING WINNIPEG 715 WIHURI ROAD BLDG 84 PO BOX 17000 STATION FORCES WINNIPEG MANITOBA R3J 3Y5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Western
Region
PO Box 1408, Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3C 2Z1

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

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The requirement is detailed under Article 2 of the resulting contract clauses.

3. Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1 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 (2012-07-11) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 4.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days
Insert: ninety (90) days

1.1 SACC Manual Clauses

B3000T (2010-01-11), Substitute Products - Samples (DND)
B4024T (2006-08-15) No Substitute Products
B1000T (2007-11-30), Condition of Material
B3000T (2006-06-16), Equivalent Products

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.

2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work 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 10 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) 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 Manitoba.

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 (2 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>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and/or containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

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 Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

- 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

- (a) Ability to meet the requirement and perform the work as described in Annex "A" . Bidders must complete the compliance matrix. Refer to Appendix 1.

1.1.2 Point Rated Technical Criteria

Refer to Appendix 1

1.2 Financial Evaluation

SACC Manual Clause A0222T (2010-01-11), Evaluation of Price

2. Basis of Selection

2.1 To be declared responsive, a bid must:

- (a) comply with all the requirements of the bid solicitation; and
- (b) meet all mandatory technical evaluation criteria; and
- (c) bids meeting all the mandatory technical criteria will be evaluated on the point rated criteria. The rating is performed on a scale of 450 points.

2.2. Bids not meeting (a) or (b) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted.

The contract will be awarded based on a determination of best value taking into account both the technical merit of the proposals and the price evaluations. To arrive at an overall score achieved by a bidder, a weighting has been established whereby technical merit will be valued at 45% of the bid and price at 55%.

The Contract will be awarded to the bidder with the highest Total Score.

For the purpose of ranking all technically acceptable proposals, the following ratio will factor the technical and the price component to establish a total percentage score:

$$\text{Technical Score} = \frac{\text{Bidder' Points}}{\text{Maximum Points}} \times 45\%$$

$$\text{Cost Score} = \frac{\text{Lowest Bid}}{\text{Bidder' Cost}} \times 55\%$$

$$\text{Total Score} = \text{Technical Score} + \text{Cost Score}$$

Example:

Bidder 1 \$100,000.00

	Point Rated	380	
Bidder 2	\$75,000.00		
	Point Rated	100	
Bidder 3	\$200,000.00		
	Point Rated	450	
Bidder 1			
	$380/450 = 84.44 \times 45\%$	$= 38.00$	
	$\$75,000 / \$100,000 = 75 \times .55$	$= 41.25$	
		$= 79.25$	total score
Bidder 2			
	$100/450 = 22.22 \times 45\%$	$= 10.00$	
	$\$75,000 / \$75,000 = 100 \times .55$	$= 55.00$	
		$= 65.00$	total score
Bidder 3			
	$450/450 = 100 \times 45\%$	$= 45.00$	
	$\$75,000 / \$200,000 = 37.5 \times .55$	$= 20.63$	
		$= 65.63$	total score

Bidder 1 provides BEST VALUE

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

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

1. Code of Conduct Certifications - Consent to a Criminal Record Verification

1.1 Bidders must submit with their bid, by the bid solicitation closing date:

- (a) a complete list of names of all individuals who are currently directors of the Bidder;
- (b) a properly completed and signed form Consent to a Criminal Record Verification (PWGSC-TPSGC 229), for each individual named in the list.

2. 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

Federal Contractors Program

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

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- (d) () 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.

2.2 Former Public Servant Certification

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

Definitions

For the purposes of this clause, "former public servant" is any former member of a department as defined in the Financial Administration Act, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

an individual;

an individual who has incorporated;
 a partnership made of former public servants; or
 a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means, in the context of the fee abatement formula, a pension or annual allowance paid under the Public Service Superannuation Act (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the Supplementary Retirement Benefits Act, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the Canadian Forces Superannuation Act, R.S., 1985, c. C-17, the Defence Services Pension Continuation Act, 1970, c. D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c. R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c. R-11, the Members of Parliament Retiring Allowances Act, R.S., 1985, c. M-5, and that portion of pension to the Canada Pension Plan Act, R.S., 1985, c. C-8.

Former Public Servant in Receipt of a Pension

Is the Bidder a FPS in receipt of a pension as defined above?

Yes () No ()

If so, the Bidder must provide the following information:

name of former public servant;

date of termination of employment or retirement from the Public Service.

A contract for the services of a FPS who has been retired for less than one year and who is in receipt of a pension as defined above is subject to a fee reduction (abatement formula) as required by Treasury Board Policy.

Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program?

Yes () No ()

If so, the Bidder must provide the following information:

name of former public servant;

conditions of the lump sum payment incentive;

date of termination of employment;

amount of lump sum payment;

rate of pay on which lump sum payment is based;

period of lump sum payment including start date, end date and number of weeks;

number and amount (professional fees) of other contracts subject to the restrictions of a work force reduction program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including the Goods and Services Tax or Harmonized Sales Tax.

Certification

By submitting a bid, the Bidder certifies that the information submitted by the Bidder in response to the above requirements is accurate and complete.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

The Contractor must provide the items and perform the full scope of work as detailed in "Statement of Work" 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>)(<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2012-03-02), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery

Delivery must be made complete by March 01, 2013.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Tammy Kozak
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
100-167 Lombard Avenue
Winnipeg, Manitoba R3C 2Z1

Telephone: 204-984-8825
Facsimile: 204-983-7796
E-mail address: tammy.kozak@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Technical Authority

The Technical Authority for the Contract is:

Name: _____ TO BE DETERMINED AT CONTRACT AWARD _____

Title: _____

Organization: _____

Address: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

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

5.3 Contractor's Representative

Name: _____

Title: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

6. Payment

6.1 Basis of Payment - Firm LOT Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex B for a cost of \$ ____ TO BE DETERMINED AT CONTRACT AWARD _____. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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 Limitation of Price

SACC Manual clause C6000C (2007-05-25) Limitation of Price

6.3 Multiple Payments

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

6.4 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department

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

C2605C (2008-05-12), Canadian Customs Duties and Sales Tax - Foreign-based Contractor

D5328C (2007-11-30), Inspection and Acceptance

7. Invoicing Instructions

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.

7.1.2. 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

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

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in ____ TO BE DETERMINED AT CONTRACT AWARD ____.

10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) 2010A General Conditions (2012-03-02) - Goods (Medium Complexity);
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____

11. SACC Manual Clauses

A9068C (2010-01-11), Government Site Regulations

A9006C (2008-05-12), Defence Contract

B1501C (2006-06-16), Electrical Equipment

B7500C (2006-06-16), Excess Goods

12. Insurance Requirements

The Contractor must comply with the insurance requirements specified below. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

12.1. Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

2. The Commercial General Liability policy must include the following:

(a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.

(b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.

(c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.

(d) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.

(e) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

(f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.

(g) Employees and, if applicable, Volunteers must be included as Additional Insured.

(h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

(i) Broad Form Property Damage including Completed Operations:

Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.

(j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

(k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

Solicitation No. - N° de l'invitation

W0117-12DE03/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

wpg202

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

W0117-12DE03

File No. - N° du dossier

WPG-2-35059

CCC No./N° CCC - FMS No/ N° VME

ANNEX "A"**STATEMENT OF WORK**

Mandatory Specifications are attached as Appendices.

Appendix 1 - Compliance Matrix

Appendix 2 - DND 552

Appendix 3 - DNDP 35 - Management of The Radio Frequency Spectrum

Appendix 4 - Instructions for the DSP-83

Appendix 5 - Super Hauler Measurements

ANNEX "B"**BASIS OF PAYMENT**

Bidders must submit firm LOT price as requested. It is the responsibility of the bidder to provide conversion to the unit of issue requested. Failure to do so will render the bid non-responsive without further consideration.

Should there be an error in the extended pricing of the bidder's proposal, the unit pricing shall prevail and the extended pricing will be corrected in the evaluation. Any errors in the quantities of the bidders' proposal shall be changed to reflect the quantities stated in the RFP.

Prices MUST include ALL costs associated with providing the requirement in accordance with the specifications detailed in Annex A and all its Appendixes GST/HST, if applicable, is not included and is to be shown as a separate item on any resulting invoice.

This section, when completed, will be considered as the Bidders Financial Proposal and payment will be made in accordance with the following pricing.

Firm Unit pricing, GST extra, F.O.B. Destination				
Item .	Description	Est'd Qnt	Unit of Issue	Unit Price
1	<p>Firm all-inclusive price for one (1) Synthetic Aperture Radar (SAR) system in accordance with the Statement of Work at Annex A, including all the Appendixes.</p> <p><u>Unit Price Includes:</u> All airborne and ground components All manuals - paper and electronic Special tools - if required Industry Canada Technical Acceptance Certificate (TAC) DND 552 - completed Operation and Maintenance Training and all travel costs All Freight and Delivery charges</p>	1	LOT	\$

INSTRUCTIONS FOR DSP-83

The U.S. Department of State requires that this completed form DSP-83 be included as a part of an application for authorization to export significant military equipment and classified equipment or data (22 CFR §§123.10(a), 124.10 and 125.7.) Failure to submit will result in the application being returned without action. The form DSP-83 must be completed by the appropriate foreign persons (e.g., consignee, end-user, government) and forwarded to the U.S. Department of State through the U.S. person making the application.

1. *Item 1.* The U.S. Department of State will enter the application number when the form DSP-83 is submitted with the application. The U.S. applicant must provide the application number when form DSP-83 is submitted separately from the application.
2. *Item 2.* Show the name of the U.S. person submitting the application to the U.S. Department of State.
3. *Item 3.* Show the foreign person that will receive the articles/data for end-use. A bank, freight forwarding agent, or other intermediary is not acceptable as an end-user.
4. *Item 4.* Show the country in which the articles/data will ultimately receive end-use.
5. *Item 5.* Show precise quantities of the articles/data. List each article/data clearly, giving type, model number, make and (if known) U.S. military designation or national stock number. When components and spare parts are involved, fully identify the minor component, major component and end item in which they will be used (e.g., turbine blades for C-34 jet engine for F24B aircraft). Give a separate value for each major component. Values must represent only the selling price and not include supplementary costs such as packing and freight.
6. *Item 6.* To be completed by the foreign person who has entered into the export transaction with the applicant to purchase the articles/data for delivery to the end-user. This item shall be completed only if the foreign consignee is not the same as the foreign end-user.
7. *Item 7.* To be completed by the foreign person, in the country of ultimate designation, who will make final use of the articles/data.
8. *Item 8.* When requested by the U.S. Department of State, this item is to be completed by an official of the country of ultimate destination having the authority to so commit the government of that country.
9. *Item 9.* Certification of U.S. applicant.

*Public reporting burden for this collection is estimated to average 1 hour per response, including time required for searching existing data sources, gathering the necessary data, providing the information required, and reviewing the final collection. Send comments on the accuracy of this estimate of the burden and recommendations for reducing it to: U.S. Department of State (A/RPS/DIR) Washington, DC 20520.



U.S. Department of State
UNITED STATES OF AMERICA
NONTRANSFER AND USE CERTIFICATE

1. This certificate is submitted in
connection with export application
no. _____

OMB No. 1405 0021
EXPIRATION DATE: 09-30-2008
*ESTIMATED BURDEN: 1 Hour
(Instruction Page)

2. Name of United States applicant	3. Name of foreign end-user	4. Country of ultimate destination
------------------------------------	-----------------------------	------------------------------------

5. Articles/data
We certify that we have placed an order with the person named in item 2 for the following articles/data in the quantity and value shown below:

QUANTITY	ARTICLES/DATA DESCRIPTION	VALUE (U.S. \$)

6. Certification of foreign consignee
We certify that we are importing the articles/data listed in item 5 for delivery to the end-user in item 3. Except as specifically authorized by prior written approval of the U.S. Department of State, we will not re-export, resell, or otherwise dispose of any of those articles/data (1) outside the country in item 4 above, or (2) to any person, including the end-user, if there is reason to believe that it will result, directly or indirectly, in disposition of the articles/data contrary to the representations made in this certificate by any party. We further certify that all of the facts contained in this certificate are true and correct to the best of our knowledge and belief and we do not know of any additional facts that are inconsistent with this certificate. We will promptly send a supplemental certificate to the U.S. applicant in item 2 disclosing any change of facts or intentions set forth in this statement.

Sign here _____
in ink _____
Signature of Official, Foreign Consignee _____
Date Signed (mm-dd-yyyy) _____

Type or print _____
Name and Title of Signer _____
Seal _____

7. Certification of foreign end-user
We certify that we are the end-user of the articles/data in item 5. Except as specifically authorized by prior written approval of the U.S. Department of State, we will not re-export, resell, or otherwise dispose of any of those articles/data (1) outside the country in item 4 above, or (2) to any other person. If the end-user is a foreign government, we certify that we will observe the assurances contained in item 8. We further certify that all of the facts contained in this certificate are true and correct to the best of our knowledge and belief and we do not know of any additional facts that are inconsistent with this certificate.

Sign here _____
in ink _____
Signature of Official, End-User _____
Date Signed (mm-dd-yyyy) _____

Type or print _____
Name and Title of Signer _____
Seal _____

8. Certification of foreign government
We certify that we will not authorize the re-export, resales or other disposition of the articles/data authorized in item 5 outside the country in item 4 without prior written approval of the U.S. Government. If the articles/data are for use by our "armed forces" (i.e., army, navy, marine, air force, coast guard, national guard, national police, and any military unit or military personnel organized under or assigned to an international organization), we certify that we will use the authorized articles/data only: (a) for the purposes specified in the Mutual Defense Assistance Agreement, if any, between the U.S. Government and this government; (b) for the purposes specified in any bilateral or regional defense treaty to which the U.S. Government and this government are both parties, if subparagraph (a) is inapplicable; or (c) for internal security, individual self-defense, and/or civic action, if subparagraphs (a) and (b) are inapplicable.

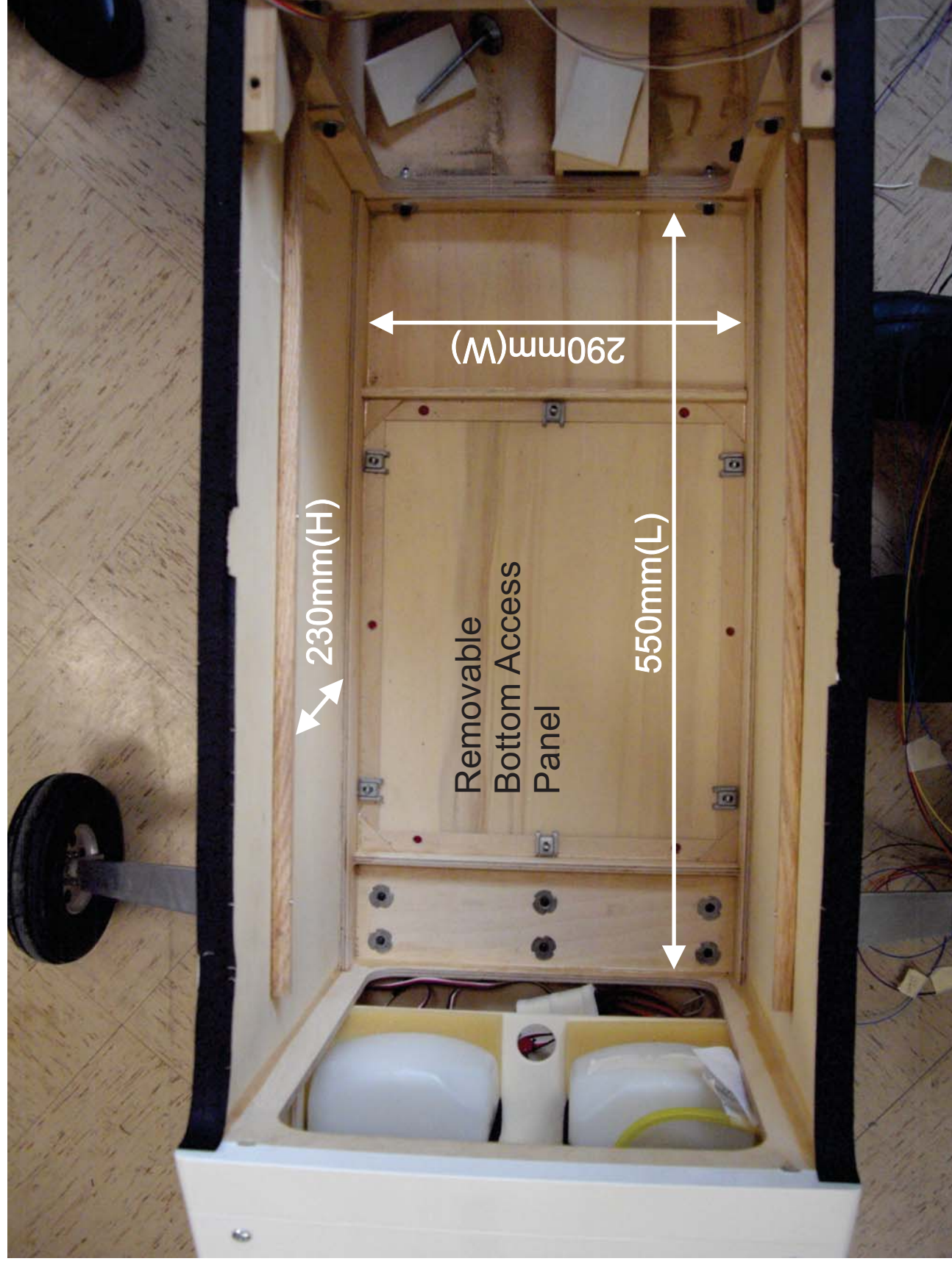
Sign here _____
in ink _____
Signature of Government Official _____
Date Signed (mm-dd-yyyy) _____

Type or print _____
Name and Title of Signer _____
Seal _____

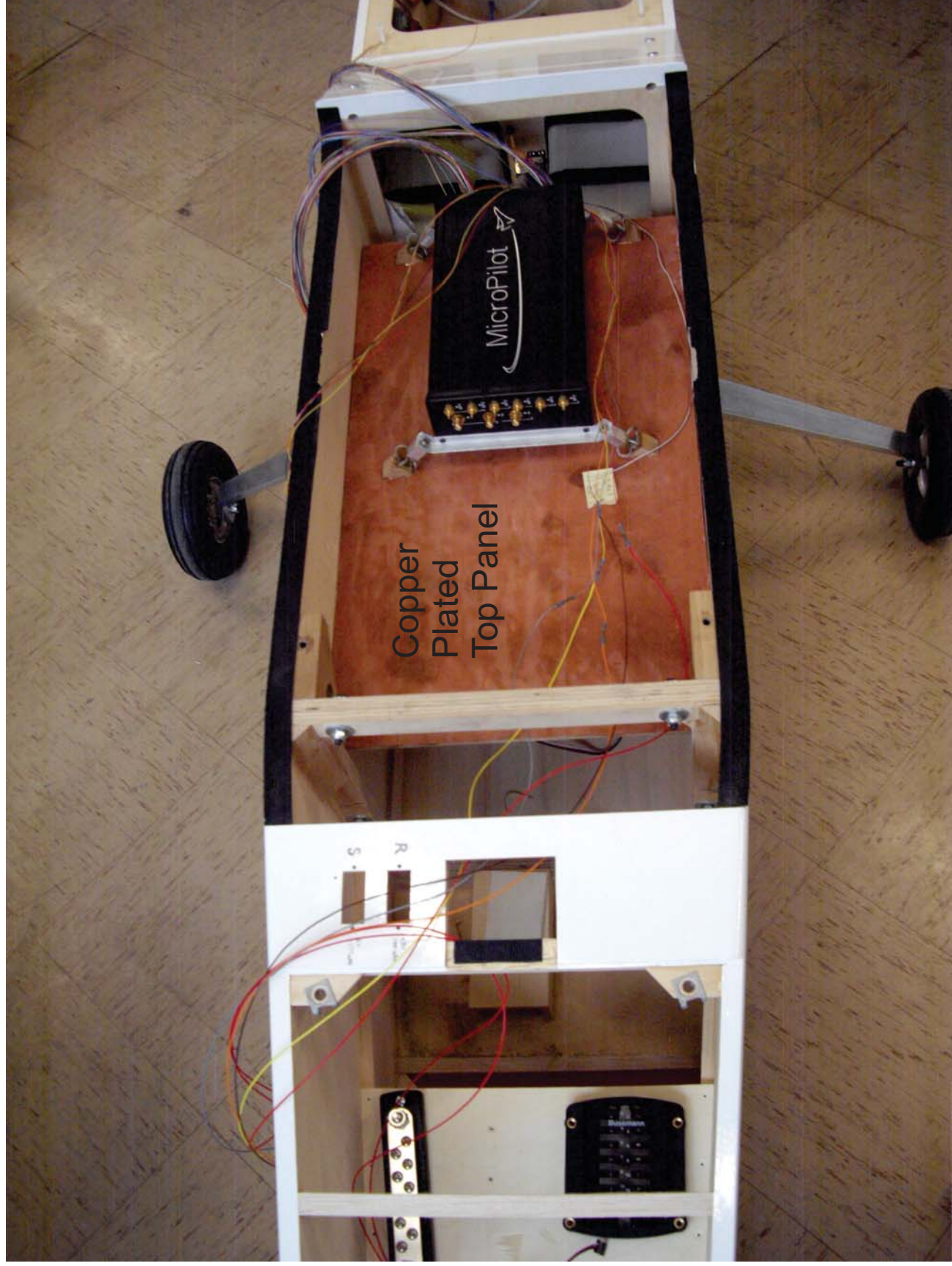
9. We certify that no corrections, additions or alterations were made on this form by us after it was signed by the foreign consignee, foreign end-user or foreign government.

Sign here _____
in ink _____
Signature of Applicant _____
Date Signed (mm-dd-yyyy) _____

Type or print _____
Name and Title of Signer _____
Seal _____

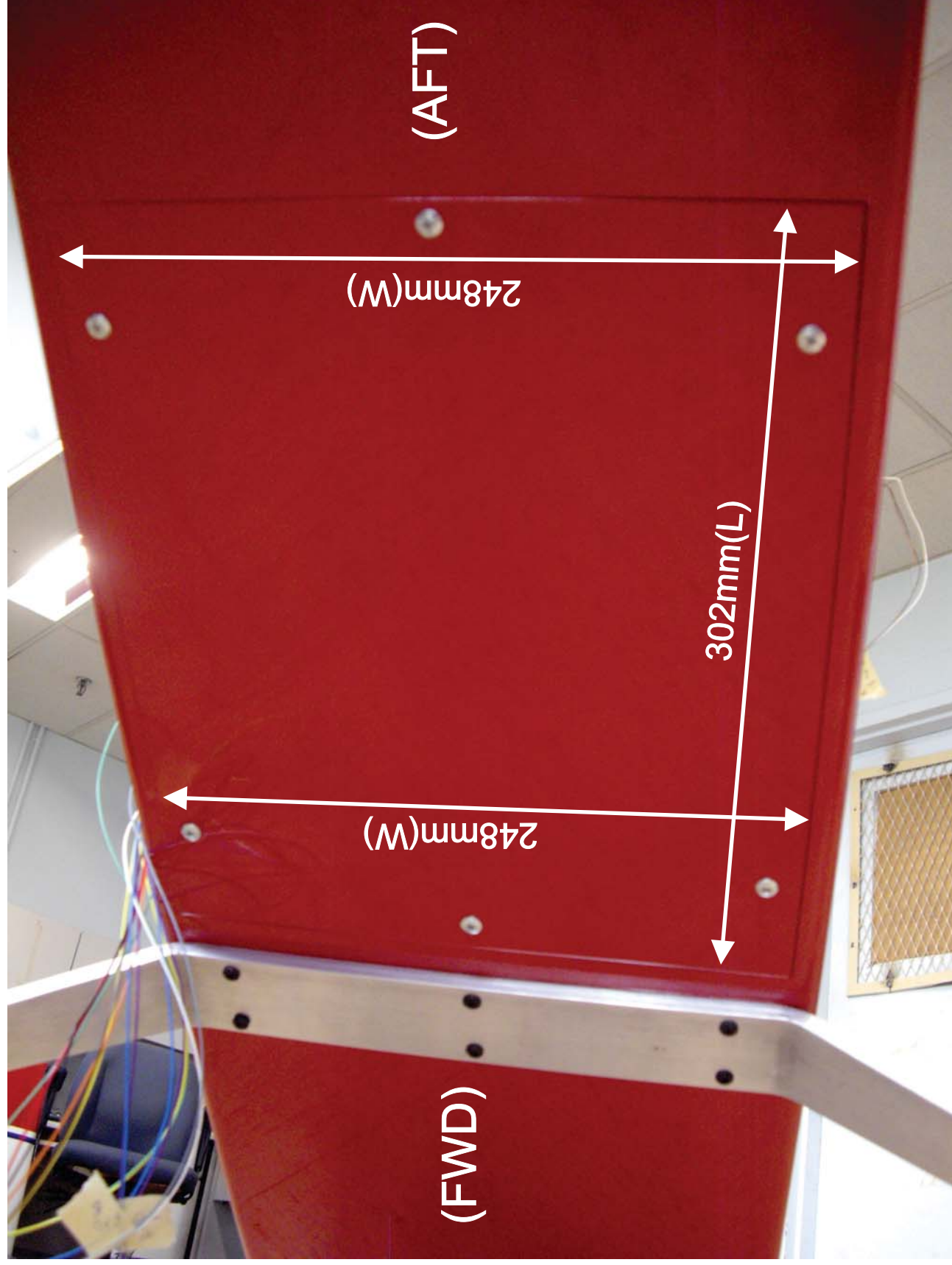


Maximum Interior Space - Top View

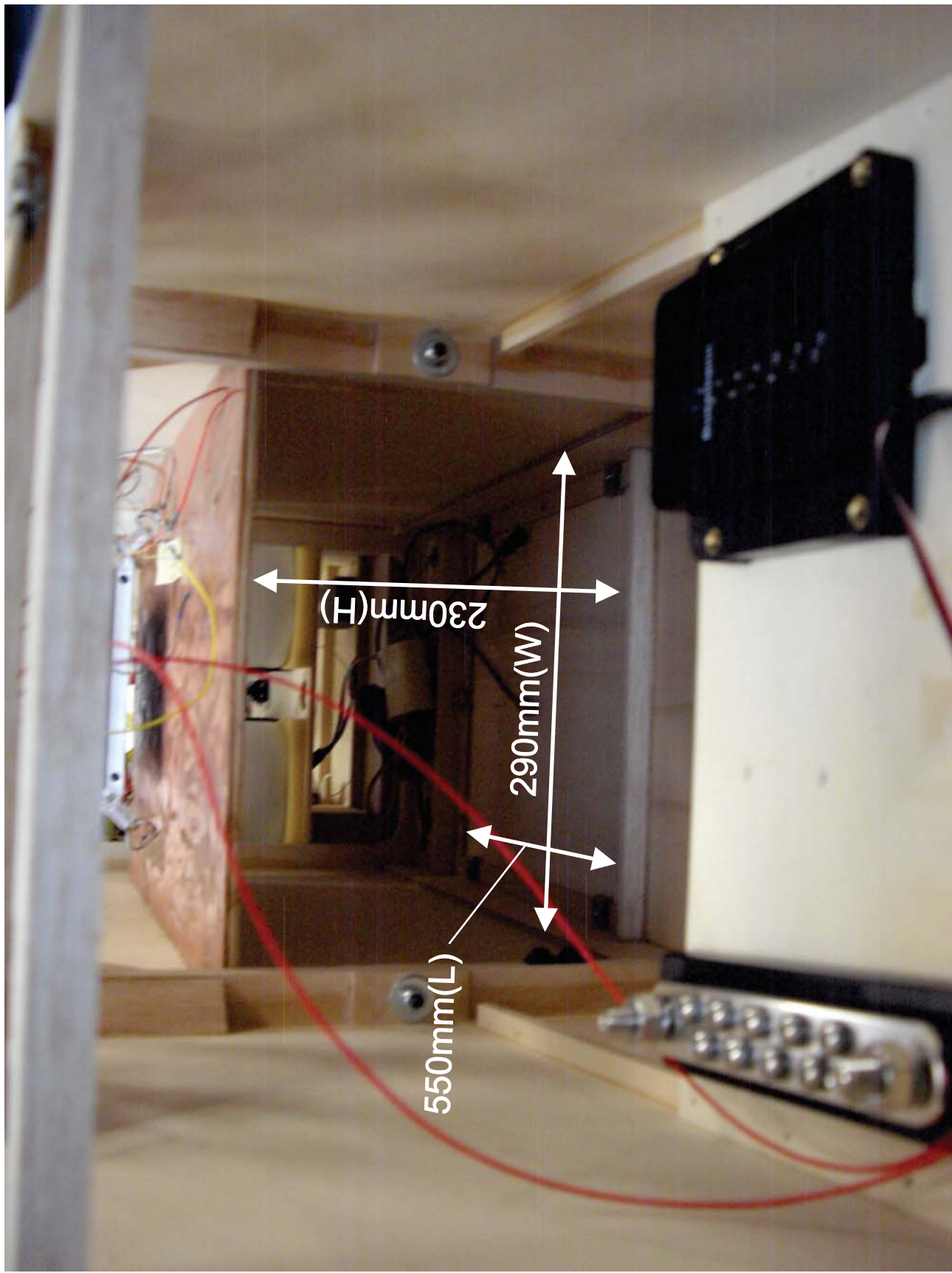


Copper
Plated
Top Panel

Upper Panel Installed - Top View



Maintenance Access Panel - Bottom View



Top and Bottom Panel (Installed) - Interior View from AFT





COMPLIANCE MATRIX - Mandatory Performance Specifications

Description	MEETS			Bidder Response	Bidder Cross Reference	What's expected in the proposal
	Status	Yes	No			
this Compliance Matrix is mandatory to be considered responsive and for your bid to be given further consideration.						
s must record whether they meet (YES) or not meet (NO) each of the specifications.						
: are requested to provide documentation to demonstrate compliance to each mandatory criterion if applicable.						
: are requested to reference where this technical specification is indicated in their bid documentation						
Identified by the word “ must ” are mandatory. Deviations will not be permitted.						
Identified by “ must^(E) ” are mandatory. The Technical Authority will consider substitutes / alternatives for acceptance as an Equivalent; where a standard or specification is specified as an equivalent standard <u>must</u> be provided upon request for verification of equivalency.						
n						
provided is for guidance only.						
Department of National Defence requires the supply delivery of one (1) Synthetic Aperture Radar (SAR) system as a technology and test & evaluation training exercise.				In this column, Bidder is to indicate how they meet the specifications addressed below (i.e. see attached brochure).	In this column, Bidder is to cross-reference where this technical specification is indicated in their bid documentation. (i.e. Page 4, Para 3 of brochure)	
Description	Status	Yes	No	Bidder Response	Bidder Cross Reference	What's expected in the proposal
DEFINITIONS – Informational only						
ality Assurance Representative” is the government official responsible for ensuring that material and services supplied by the contractor conform to the specified requirements; and						
Technical Authority” is the government official responsible for technical management of this requirement. The Technical Authority is Commandant, Canadian Forces School of Aerospace						
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						
TECHNICAL DEVIATIONS.						
bidder <u>must</u> list any deviation from the purchase description in the Compliance Matrix	M					Confirm your commitment to identify any deviations in the Statement of Work.
APPLICABLE DOCUMENTS - All items are informational only.						
Publications – The following documents form part of this Purchase Description. Web sites for the organization are given when available. Effective dates are those in effect on the date of publication or as shown:						

-STD 810: Department of Defence Test Method Standard for Environmental Engineering Considerations and Laboratory Tests.						
CA DO-160: Environmental Conditions and Test Procedures for Airborne Equipment.						
-STD 464: Department of Defence Interface Standard for Electromagnetic Environmental Effects Requirements for Systems.						
Industry Canada document RSS-210 (http://strategis.ic.gc.ca)						
D 552 – Application for Spectrum Supportability (form and instructions included) see Appendix 1 D Form 1494						
DP35 see Appendix 2						
STANDARD DESIGN – The SAR design:						
<u>must</u> be manufacturer's latest model;		M				Confirm your commitment to this supply requirement
<u>must</u> ^(E) have demonstrated industry acceptability by having been manufactured, marketed and sold on the commercial military market for at least 6 months;		M				If alternative is offered, the bidder MUST indicate proposed system is an upgrade from previous demonstrate the functionality of the upgraded system. Equivalent standard must be provided upon request verification of equivalency
<u>must</u> include all hard, soft and electronic components, equipment and accessories required for collecting, transferring, and processing SAR data in electronic format, though they may not be specifically described in this Purchase Description;		M				Confirm your commitment to this supply requirement
AIRBORNE COMPONENT CHARACTERISTICS.						
Airborne components include all those components necessary for the operation of the system. This includes, but is not limited to radar components, telemetry components, cables, connectors, etc.						
In the exception of the power supply, the SAR system <u>must</u> either: a. be a stand-alone system that does not rely on existing Air Vehicle components for operation; or, b. be integrated with the MicroPilot MP2128 ^{3x} autopilot system by the contractor to permit system functionality. If Option b is chosen, the contractor must conduct integration on a non-interference basis with existing autopilot functionality, ancillaries, and data throughput requirements. On request, the TA will provide a list of I/O that is available for use.		M				The bidder will be expected to confirm commitment requirement and select option a or b. If selected bidder will need to indicate the following: a. Which autopilot I/O ports are planned for b. What functionality (user controlled parameters) programmable through the autopilot interface; c. The expected data throughput for system
Fit within existing internal spatial limitations, the airborne components must ^(E) not exceed (including maximum gimbal		M				Indicate physical dimensions of the proposed system dimensions and weight of telemetry antenna if applicable

Requirement – if applicable): telemetry antenna may be excluded from this space, however, the type, dimensions, and weight of the antenna must be presented as part of the bid mm in length; mm in width; and, mm in height. Internal mounting of weatherproof components may be considered by the TA. If alternative is offered, the bidder <u>MUST</u> identify / detail the exact dimensions and integration considerations to evaluate the feasibility										included within the assigned space.
	M									Indicate physical dimensions of the proposed unit
	M									Indicate physical dimensions of the proposed unit
	M									Indicate physical dimensions of the proposed unit
Internal mounting of weatherproof components may be considered by the TA. If alternative is offered, the bidder <u>MUST</u> identify / detail the exact dimensions and integration considerations to evaluate the feasibility										
<u>st</u> not exceed a total mass for all airborne of 6.9 kg.	M									Indicate total mass of all airborne components (components, cables, connectors, etc).
<u>st</u> be installed in such a manner that lateral and longitudinal centres of gravity remain within those specified by the AV manufacturer.	M									Confirm commitment to this supply requirement
autopilot for the AV is installed at the lateral and longitudinal centre of gravity. Space available for components that require installation at the centre of gravity is severely limited. The TA includes lateral and longitudinal but not the vertical centres of gravity.										
<u>st</u> not exceed a total power consumption for all airborne components of 100 W at 28VDC. Momentary peaks above 100 W may be considered by the TA.	M									Indicate total power requirements of the proposed unit and other airborne components to include Voltage, Current requirements. If alternative is offered, the bidder <u>MUST</u> identify / detail the exact dimensions and integration considerations to include maximum voltage/power/current, duration and frequency consumption. (eg. 106 W peak for up to 3 seconds start-up)
Heat dissipation <u>must</u> be such that the system remains operational within an environment at +50° C with nil selected airflow. Any supplemental cooling to meet this requirement must fit within the space, weight and power limitations as defined herein.	M									Confirm commitment to this supply requirement and provide thermal curves for system components
Selected ambient temperatures inside the AV may reach +50° C.										
GROUND CONTROL SEGMENT (GCS) CHARACTERISTICS										
<u>st</u> provide a display of SAR imagery and mission planning data for a minimum of one operator. The display must be a minimum 19" color monitor.	M									Confirm commitment to this supply requirement
<u>st</u> provide operator the capability to conduct real-time control of system parameters including system transmitting/receiving (on/off)	M									Confirm commitment to this supply requirement
display of compiled imagery/data to the operator <u>must</u> be within 5 minutes of commencing data collection and continue in near-real time.	M									Confirm commitment to this supply requirement
user interface <u>must</u> utilize common interface control components (eg. Keyboard, mouse, joystick)	M									Confirm commitment to this supply requirement
data processing unit <u>must</u> be self-contained such that it may be transferred from the mobile C ² unit to the	M									Confirm commitment to this supply requirement and offered, the bidder <u>must</u> detail the proposed alternative

classroom without the use of special tools, and weigh no more than 45 Kg. As an alternative, an additional data processing unit for classroom/laboratory use may be processed but must include a portable method of transferring data from one processing unit to the other.							portable data transfer method and minimum capacity requirement stated at 6.6 and 6.7.
system <u>must</u> be able to store a minimum of 30 min of compiled data per mission.	M						Confirm commitment to this supply requirement to meet the amount of storage capacity required to meet the
system <u>must</u> provide sufficient storage capacity for no less than 8 x 30 min missions.	M						Confirm commitment to this supply requirement to meet the amount of storage capacity required to meet the
SAR <u>must</u> ^(E) permit exporting of imagery/data to other sources for the purposes of further analysis, presentations, in following formats: JPG, MPG, CSV, XLS, PDF	M						The bidder <u>must</u> detail data output file types and proposed system.
GCS <u>must</u> operate using a 120 VAC power source.	M						Confirm commitment to this supply requirement to meet the bidder is requested to provide expected power requirements for the system.
that dissipation <u>must</u> be such that the GCS remains operational within an environment at +35° C with nil expected airflow. Any supplementary cooling must be included in the system.	M						Confirm commitment to this supply requirement to meet the provide thermal curves for system components
GROUND-BASED TELEMETRY SEGMENT CHARACTERISTICS.							
Ground control and telemetry segments will be centrally located within the area of operations							
<u>must</u> permit reliable two-way datalink between the AV and S to a range of no less than 7.4 Km (4NM) at normal operating altitudes and airspeeds.	M						Confirm commitment to this supply requirement to meet the
directional antenna is used to maintain datalink, the antenna <u>must</u> track the airborne segment without human intervention (i.e. automated tracking)	M						Confirm commitment to this supply requirement to meet the
When prepared for transportation, the telemetry segment must not exceed 1.5 m in any direction and no single component shall weigh more than 30 Kg.	M						Provide detailed documentation, brochures, etc. to indicate the size of packed-up components.
Telemetry segment <u>must</u> operate using a 120 VAC power source.	M						Confirm commitment to this supply requirement to meet the bidder is requested to provide expected power requirements for the system.
OPERATING CONDITIONS.							
Weather - The SAR <u>must</u> meet the performance requirements and function in all weather extremes including rain and snow and within day or night at temperatures ranging from -10° C to +35° C.	M						Confirm your commitment to this supply requirement to meet the
Altitude - The SAR must be able to operate between 200' 2000' AGL (1000' and 3000' MSL)	M						Provide detailed documentation, brochures with demonstrate compliance.
Speed - The SAR must be able to operate at airspeeds between 25 -100 kts.	M						Provide detailed documentation, brochures with demonstrate compliance.
Portability - All ground-based and airborne	M						Confirm your commitment to this supply requirement to meet the

Components of the SAR <u>must</u> tolerate the vibrations of equipment transported within a towed, enclosed mobile C ² unit hauled over paved and gravel roads operating at speeds of 100 km/h without incurring damage.							detailed documentation, brochures with proposed compliance.
FETY.							
The contractor <u>must</u> provide information regarding field strengths of the transmitter as well as any information relating to safe stand-off ranges IAW RSS-102 and DoD guidance on HERP.	M						Provide detail regarding field strengths and/or transmitting devices in V/m or W/m ² and the associated frequency. AND provide any detail regarding previously established safe stand-off ranges. Confirm your commitment to this supply requirement.
The minimum operating altitudes, transmission power of the R <u>must</u> not be such that it poses any hazard to persons on the ground in accordance with IAW RSS-102 and DoD guidance on HERP.	M						Confirm your commitment to this supply requirement.
A system must possess a means of limiting transmitting power to prevent inadvertent transmission while on the ground.	M						Confirm your commitment to this supply requirement.
PERFORMANCE – At expected operating altitudes and airspeeds, the SAR:							
SAR <u>must</u> provide range resolution to a minimum of 1 m in high-resolution mode.	M						Provide detailed documentation, brochures with demonstrate range resolution of the proposed Confirm your commitment to this supply requirement.
SAR <u>must</u> provide adequate stabilization to compensate for attitude perturbations as a result of light-to-moderate levels of turbulence up to 0.5g.	M						Provide detailed documentation, brochures with demonstrate range resolution of the proposed Confirm your commitment to this supply requirement.
An approximate wing loading of the AV is 15.2 kg/m ² (3.2 lb/ft ²)							
All communication cables or devices required to transmit data between the GCS to the ground-based telemetry element <u>must</u> be provided to reach from the C ² unit to the antenna based on manufacturers recommended installation.	M						Confirm your commitment to this supply requirement.
EGRATED LOGISTICS SUPPORT.							
Availability Information - The Contractor <u>must</u> provide one (1) complete set of manuals to DND in both paper format and in electronic format (eg. CD/DVD ROM) required for the safe maintenance and repair of the SAR and all sub-systems, attachments, components and accessories included with the SAR. If documentation is licensed, the contractor <u>must</u> provide 1 copy of the manufacturer's Manuals (Electronic and Paper copy) -							
The operator's manuals <u>must</u> be provided in English. The contractor's manual <u>must</u> contain the following information: Instructions for the safe operation of all components; System assembly/disassembly; Daily operator maintenance instructions /checks including lubrication and calibration procedures); and Safety Warnings.	M						Confirm commitment to the provision of documents manuals.
The Parts Manual (Electronic and Paper copy) - The Parts Manual <u>must</u> be in English. The Parts Manual <u>must</u> contain the following information:	M						Confirm commitment to the provision of documents manuals.

[illegible]

<p>Quantity per equipment; and,</p> <p>Unit price; and</p> <p>must be delivered to the Technical Authority upon delivery. The list <i>must</i> be supplied in an editable electronic format, preferably as a spreadsheet.</p>							
<p>t of Special Tools - The Contractor <i>must</i> provide to the Technical Authority a list detailing the special tools required for the SAR and sub-components that would not be included in a common mechanics toolbox. This would include items such as special wrenches, or extraction devices and special diagnostic tools /software, including calibration scale. One complete set of any special tools required must be included.</p>	M					Confirm your commitment to this supply requirement	
<p>SPECTRUM SUPPORTABILITY DOCUMENTATION.</p>							
<p>General: In accordance with by the Radio Communication Act: All Radio Frequency (RF) equipment must be certified to ensure that minimum National Standards are met. This is done through the Certification (Spectrum Supportability) process (discussed below) is submitted to DFSM 4 . No equipment is to be operated without equipment certification (or Spectrum Supportability). All Radio Frequency (RF) equipment must be licensed to obtain authority to transmit, except for Licence Exempt equipment (see Industry Canada document RSS-210; http://strategis.ic.gc.ca/ssi/servlet/strategis.nsf/00000000-0000-0000-0000-000000000000?open) through "Licensing" where the necessary info is submitted to DFSM 3. DND/DFSM will apply for radio licensing but it is the applicant's responsibility to ensure that all documentation is provided 30 days in advance prior to delivery of SAR unit to allow DND/DFSM sufficient time to obtain the necessary licences from Industry Canada. More information on Spectrum Supportability and Licensing requirements and process can be found in DNDP 35, DND "Management of the Radio Spectrum" .</p>							
<p>anned Spectrum Use: Each bidder <i>must</i> provide a general description of their intended spectrum usage as a part of their proposal. This description <i>must</i> include as a minimum: intended frequency bands, number of channels required, approximate transmitting power, and approximate bandwidth requirements. The use of diagrams to facilitate system operation understanding is encouraged.</p>	M					Provide detailed documentation, brochures, etc. to meet the requirement as indicated.	
<p>RF equipment must either already possess an Industry Canada Technical Acceptance Certificate (TAC) or be capable of obtaining certification/Spectrum Supportability from DND/Industry Canada. NOTE: PAYMENT WILL NOT BE MADE UNTIL CERTIFICATION FROM INDUSTRY CANADA IS RECEIVED.</p> <p>Spectrum Supportability is granted when DND equipment is found to be in conformity with National Spectrum Policy and Standards to ensure compatibility with existing RF equipment, including, currently operating in the same frequency band. National Spectrum Policy and Standards may be found on Industry Canada's website at: http://strategis.ic.gc.ca/ssi/servlet/strategis.nsf/00000000-0000-0000-0000-000000000000?open</p> <p>lication for Spectrum Supportability:</p> <p>each RF equipment (Transmitting and Receiving) in the proposal, the Contractor <i>must</i> properly complete DND 552 Form "Application for Spectrum Supportability", and submit</p>							
	M					Submit completed DND 552 or DoD 1494 with If proposed equipment already possesses and Technical Acceptance Certificate (TAC), the bidder must submit a copy of this certificate with bid submission.	

<p>Item as a deliverable item. The values entered on the DND 552 forms <u>must</u> be measured values.</p> <p>The proposed equipment is in use by the United States military it may already have a US Department of Defence (DoD) Form 1494. If available, a DoD 1494 form will be accepted by DND in lieu of a DND 552.</p> <p>Documentation of the intended spectrum usage <u>must</u> be provided with bid submission. DND must be able to verify in Industry Canada that the equipment can be operated in Canada.</p>						
<p>TRAINING.</p> <p>Time of delivery, or as otherwise agreed to by the TA, Contractor <u>must</u> provide a total of at least 1 day of the following training:</p> <p>Operation/Maintenance Training – The Contractor <u>must</u> provide operation/maintenance training course for up to eight DND operators at the delivery location unless an alternative location is mutually agreed upon between the Contractor and DND, including classroom instruction and hands-on training. The following must be included in the course curriculum:</p> <ul style="list-style-type: none"> Safety precautions to be observed while operating and servicing SAR; SAR operating characteristics; SAR operating procedures; Pre-operating and pre-shutdown procedures; Daily/weekly operator servicing procedures; Preventative maintenance including servicing modules; Troubleshooting, testing and adjustments; Special tools and test equipment; and Any additional information the Contractor deems important/relevant. 					M	Confirm your commitment to meet training requirements
<p>DELIVERY.</p> <p><u>Complete Delivery Must</u> be made no later than 1 March 2013. Complete delivery includes all parts, documentation, training, and certifications.</p> <p>Contractor must contact Frank Decker prior to Delivery to :</p> <p>Canadian Forces School of Aerospace Studies</p>						Confirm your commitment to meet training requirements

<p>Solar Radiation Rain Humidity Wind and Dust Immersion Acceleration Rotation Shock Temperature, Humidity, Vibration Power input Electrostatic Discharge (ESD)</p>					<p>Four (4) points will be awarded for each criterion.</p>
<p>SAR <u>should</u> provide the user control of system parameters either through pre-flight programming, or in real-time while in flight. Such parameters include: Mode; Resolution; swath Width; Swath angle; Expression angle; Band (if more than one band is available); and Power level.</p>	49				<p>The bidder must identify, by name, the user-controlled parameters as detailed in section 15.3.3. Seven (7) points will be awarded for each parameter.</p>
<p>SAR <u>should</u> operate in various modes in order to optimize training value. Such modes include: Range detection; Ground strip map; Realtime imaging; Footlight SAR; Ground Moving Target Indicator (GMTI); - Moving Target Indicator (AMTI); - Moving Target Indicator (SMTI) Multi-look; Quinted array; Applier beam sharpening; Sector/side scanning Radar; Track ground targets; Track airborne targets; and, Inverse Synthetic Aperture Radar (ISAR)</p>	70				<p>The bidder must identify, by name, each mode available to the user for the proposed solution. Five (5) points will be awarded for each mode.</p>
<p>SAR system <u>should</u> permit the integration of imagery/data sources. Digital maps; Terrain Elevation Databases; and, Data from other sensors (eg. Visible/infra-red imagery).</p>	30				<p>The bidder must detail the sources of data and applications with which the proposed system is compatible. Ten (10) points will be awarded for each data integration capability indicated in section 15.3.5.</p>