

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

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**

11 Laurier St. / 11, rue Laurier

Place du Portage , Phase III

Core 0A1 / Noyau 0A1

Gatineau

Québec

K1A 0S5

Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet COMPOSITE REPAIR HOT BOND SYSTEM	
Solicitation No. - N° de l'invitation W8485-126212/A	Date 2012-09-10
Client Reference No. - N° de référence du client W8485-126212	
GETS Reference No. - N° de référence de SEAG PW-\$\$BF-136-23156	
File No. - N° de dossier 136bf.W8485-126212	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-10-23	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Podlesny, Sebastian	Buyer Id - Id de l'acheteur 136bf
Telephone No. - N° de téléphone (819) 956-0082 ()	FAX No. - N° de FAX (819) 956-9110
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

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

Airframes / Aero Engines R&O Division / Division de la réparation de la révision des cellules et des moteurs

11 Laurier St. / 11, rue Laurier

8C1, Place du Portage

Gatineau

Québec

K1A 0S5

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



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - I	DEPARTMENT OF NATIONAL DEFENCE ADM (MAT) DGAEPM 101 COLONEL BY DR. OTTAWA, ON K1A0K2	W8485	DEPARTMENT OF NATIONAL DEFENCE DGAEPM 101 COLONEL BY DR. OTTAWA Ontario K1A0K2 Canada
W248A	DEPARTMENT OF NATIONAL DEFENCE BLDG 236 EAST END 195 AVE&82ND ST EDMONTON Alberta T5J4J5 Canada	W2481	DEPARTMENT OF NATIONAL DEFENCE 7 CF SUPPLY DEPOT STN FORCES P.O.BOX 10500 EDMONTON Alberta T5J4J5 Canada



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	COMPOSITE REPAIR HOT BOND SYSTEM	W248A	W2481	52	Each	\$	\$		See Herein	
2	PUBS AND TRAINING	D - 1	W8485	1	SU	\$	\$		See Herein	

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

The Work to be performed 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 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* (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) Manual issued by Public Works and Government Services Canada.

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

The 2003 (2012-07-11) 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 eight (8) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

4. Applicable Laws

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

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

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 (two (2) hard copies)

Section II: Financial Bid (two (2) hard copies)

Section III: Certifications (two (2) hard copies)

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 are encouraged to:

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

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 SACC Manual Clauses

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 and E3 **OR** EMI/EMC will evaluate the bids.

1.1 Technical Evaluation

The mandatory technical criteria are detailed under Annex "B" of the resulting contract clauses.

1.2 Financial Evaluation

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

Bidders must include firm unit prices for **both** Composite Repair Hot Bond Systems along with their overall bid evaluation price. The price of the option to purchase additional Composite Repair Hot Bond Systems will **not** be included in the evaluation price.

2. Basis of Selection

2.1 Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16), Basis of Selection - Mandatory Technical Criteria

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;

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

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

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

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

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

A. () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;

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

C. () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;

D.() is subject to the FCP, and has a valid certificate number as follows: _____ (e.g. has not been declared an ineligible contractor by HRSDC).

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

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Statement of Work

The Contractor must perform the Work in accordance with the 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* (<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 (2012-07-16), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

AND

2010B (2012-07-16), General Conditions - Professional Services (Medium Complexity) apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

Delivery dates are detailed in the Statement of Work at Annex "A".

4.2 Contract Option

The Contract Option is detailed in Section 3.1.4 of the Statement of Work at Annex "A".

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Sebastian Podlesny

Solicitation No. - N° de l'invitation

W8485-126212/A

Amd. No. - N° de la modif.

File No. - N° du dossier

136bfW8485-126212

Buyer ID - Id de l'acheteur

136bf

CCC No./N° CCC - FMS No/ N° VME

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

W8485-126212

Public Works and Government Services Canada
Acquisitions Branch
Directorate: Aerospace Equipment Program Directorate
Address: 8C1 - Place du Portage Phase III
11 Laurier St. Gatineau, Quebec
K1A 0S5

Telephone: 819-956-0082
Facsimile: 819-956-9110
E-mail address: Sebastian.podlesny@tpsgc-pwgsc.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 will be named upon contract award.

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

5.3 Contractor's Representative

Name : _____
Telephone No. : _____
Fax No. : _____
Email : _____

6. Payment

6.1 Basis of Payment

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

6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

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 consignee

B. One (1) copy must be forwarded to the following address for certification and payment:

National Defence Headquarters
Mgen George R. Pearkes Building
101 Colonel By Drive
Ottawa, ON K1A 0K2
ATTN: DAP 2-4

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

8. Delivery

8.1 SACC Manual Clauses

SACC Manual clause D2025C (2008-12-12) Wood Packaging Materials

SACC Manual clause D3018C (2011-11-30) Preparation for Delivery

SACC Manual clause D6010C (2007-11-30) Palletization

SACC Manual clause D5604C (2008-12-12) Release Documents (DND) - Foreign-based Contractor

SACC Manual clause D5605C (2010-01-11) Release Documents (DND) - United States-based Contractor

SACC Manual clause D5606C (2007-11-30) Release Documents (DND) - Canadian-based Contractor

SACC Manual clause D5510C (2011-05-16) Quality Assurance Authority (DND) - Canadian-based Contractor

SACC Manual clause D5515C (2010-01-11) Quality Assurance Authority (DND) - Foreign-based and United States Contractor

SACC Manual clause D5540C (2010-08-16) ISO 9001:2008 Quality Management Systems - Requirements (QAC Q)

8.2 Shipping Instructions - FOB Destination

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

FOB Destination as detailed in Annex "A" including all delivery charges and customs duties and taxes.

8.3 Additional Markings

1. The Contractor must ensure that in addition to the required interior and exterior package markings, the following information is provided:

a. cure date of rubber components;

2. These markings must be applied and positioned in accordance with Canadian Forces Packaging Specification D-LM-008-002/SF-001.

9. Certifications

9.1

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.

10. Applicable Laws

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

11. 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 2010A (2012-07-16), General Conditions - Goods (Medium Complexity);
- (c) the 2010B (2012-07-16), General Conditions - Professional Services (Medium Complexity);
- (d) Annex A, Statement of Work;
- (e) the Contractor's bid dated _____;

12. Defence Contract

SACC Manual clause A9006C (2008-05-12) Defence Contract

13. SACC Manual Clauses

SACC Manual clause B1501C (2006-06-16) Electrical Equipment
SACC Manual clause B7500C (2006-06-16) Excess Goods
SACC Manual clause A9062C (2011-05-16) Canadian Forces Site Regulations
SACC Manual clause G1005C (2008-05-12) Insurance

ANNEX A
STATEMENT OF WORK
FOR
COMPOSITE REPAIR HOT BOND SYSTEM

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1.0 SCOPE

1.1 PURPOSE

1.1.1 This Statement of Work (SOW) defines the requirements for the procurement of fifty-two (52) dual zone Composite Repair Hot Bond System conforming to the specifications described in this SOW, including initial cadre training and manuals. The Composite Repair Hot Bond System precisely applies, controls, and documents, heat and pressure required for composite repairs and adhesive bonding on Canadian Forces (CF) aircraft in accordance with C-12-010-062/TP-000 and C-12-010-040/TR-017. Utilizing flexible heat blankets and vacuum bagging, repair materials are cured and bonded to an affected area. The systems are to be user friendly, programmable and designed for precise control of elevated temperature and pressure over a designated period of time. The expected service life of these systems is minimum ten (10) years from contract award.

1.2 BACKGROUND

1.2.1 General

1.2.1.1 The CF currently holds an inventory of thirty three (33) Hot Bonders which are utilized for the repair and fabrication of aircraft advanced composite and bonded metal structures, providing portable control of temperature and vacuum pressure over periods of cure times.

2.0 APPLICABLE DOCUMENTS

2.1 APPLICABILITY

2.1.1 The following documents are relevant to understanding the requirement and mandatory to the performance of work called up in this SOW. Documents referenced within documents cited herein must not be applicable to this SOW unless specifically stated in this SOW.

2.2 GENERAL

2.2.1 C-02-005-013/AM-000, Shelf Life and Storage of Materiel (DND Controlled Publication)

2.2.2 D-LM-008-022/SG-000 - Standard for Packaging of Documentation (DND Controlled Publication)

2.2.3 D-01-400-002/SF-000 - DND Specifications – Drawings, Engineering and Associated Lists (DND Controlled Publication)

2.2.4 D-02-002-001/SG-001 - Identification Marking of Canadian Military Property (DND Controlled Publication)

2.3 TECHNICAL

2.3.1 C-12-010-062/TP-000 – Advanced Composite Material Repair Manual (DND Controlled Publication)

2.3.2 C-12-010-040/TR-017 – Aircraft Radomes and Laminated Fabric Reinforced Parts. (DND Controlled Publication)

- 2.3.3 MIL-STD-810G - Department of Defense (DOD) Military-Standard (MIL-STD) Test Method Standard for Environmental Engineering Considerations and Laboratory Tests (Contractor Responsible to Obtain)
- 2.3.4 MIL-R-9300B - Resin, Epoxy, Low-Pressure Laminating (Contractor Responsible to Obtain)
- 2.3.5 MIL-R-7575 - Polyester Low-Pressure Laminating (Contractor Responsible to Obtain)
- 2.3.6 MIL-R-9299C - Phenolic Low-Pressure Laminating (Contractor Responsible to Obtain)
- 2.3.7 MIL-A-25463 - Adhesive, Metallic Structural Sandwich Construction (Contractor Responsible to Obtain)
- 2.3.8 MIL-STD-461F – Electro-Magnetic Interference (EMI) for Surface Ship Applications (Contractor Responsible to Obtain)

3.0 REQUIREMENTS

3.1 GENERAL

3.1.1 The Composite Repair Hot Bond System is designed for the repair and fabrication of advanced composite and bonded metallic structures as required by C-12-010-062/TP-000 and C-12-010-040/TR-017.

3.1.2 The Contractor must provide total quantity fifty-two (52) dual zone Composite Repair Hot Bond Systems, which must include the provision of equipment, training, documentation and Integrated Logistics Support (ILS) management, as detailed further in this SOW. The delivery must be for quantity forty-five (45) General Purpose Composite Repair Hot Bond Systems and quantity seven (7) Naval Purpose Composite Repair Hot Bond Systems.

3.1.3 The General Purpose Composite Repair Hot Bond System is to be utilized in hangar and shop locations and deployed operations in very austere environmental conditions. The Naval Purpose System is to be utilized in the hangar and on the flight deck of Royal Canadian Navy ships and must be compliant to MIL-STD-461F EMC requirements.

3.1.4 The Contractor must grant to Canada an irrevocable option to purchase, under the same terms and conditions, additional quantities of General or Naval purposes systems. This option may be exercised in whole or in part, for a minimum of one (1) up to a maximum of twenty (20) of either system, for up to twenty-four (24) months after the contract has been awarded. Either or both systems, same terms and conditions.

3.2 OPERATING ENVIRONMENT

3.2.1 The General Purpose and Naval Purpose Composite Repair Hot Bond Systems must meet all performance requirements in this specification without physical damage or degradation to the unit or its subsystems during and after exposure to any combination of the ambient and induced climatic and environmental conditions identified in this document. Testing must be done in accordance with MIL-STD-810G and a report provided complete with method and results.

- a. High temperature; Basic Climatic Design, Daily Cycle A2
- b. Low temperature; Basic Climatic Design, Daily Cycle C1
- c. High Humidity; Basic Climatic Design, Daily Cycle B1;

3.2.2 The General Purpose and Naval Purpose Composite Repair Hot Bond Systems must be capable of being transported by land, sea and air without damage to the unit from shock and vibration associated with the transportation

- d. Vibration; Method 514.6 Procedure 2 – Loose Cargo Transportation
- e. Shock; Method 516.6 Procedure 3 – Fragility, Procedure 4 - Transit Drop & Procedure 6 - Bench Handling.
- f. Explosive atmosphere; Method 511.5 Procedure 1 – Operation in Explosive Atmosphere. Note, compliance by analysis or other methods shall be approved by the TA.

3.3 CURE DATES

3.3.1 Materials supplied by the contractor shall be of new production. Where rubber components and/or seals are used, the cure date of the rubber shall not be more than twenty-four (24) months prior to delivery to the Department of National Defence (DND).

3.4 SPECIFICATIONS – GENERAL AND NAVAL PURPOSE SYSTEM

3.4.1 Each General and Naval Purpose Composite Repair Hot Bond System and its supporting equipment shall be encased entirely in one (1) carrying unit and shall meet the following specifications:

3.4.1.1 Carrying Case/ Storage Lid:

- a. all accessories stored in Lid (single storage unit);
- b. weight of both halves, carrying case or storage Lid no greater than 50 lbs (22.679 kg) for a total weight of no more than 100lbs (45.359 kg), including the Composite Repair Hot Bond System;
- c. spark proof; and
- d. no sharp corners or items sticking out.

3.4.1.2 Power: (Voltage) Current: (Amperage):

- a. 90 to 264 Volts Alternating Current (AC), 47 to 63 Hertz (Hz) with Auto Switching;
- b. must be able to run off a suitable generator with no shut down or disruption in the cure program;
- c. minimum Input: 30 Amps (per zone); and
- d. minimum Output: 30 Amps (per zone).

3.4.1.3 Cure Temperatures Range:

- a. Ambient: 1°F to 500 °F (-17.2°C to 260 ° C) must be able to hold a set, constant temperature for an extended period of time.
- b. selectable to 1000 °F (537.7 ° C) with just a heat blanket exchange.

3.4.1.4 Heat Control Methods:

- a. hottest Thermocouple (TC);
- b. coolest Thermocouple;
- c. Thermocouple average;
- d. Thermocouple (TC) No. 1 or Thermocouple (TC) No. 2;
- e. Thermocouple J-Model - minimum eight (8) per zone for maximum parameter control; and
- f. automatic management of heating blankets.

3.4.1.5 Operator Interface:

- a. menu Selected / Real Language; i.e. Start, Stop, Run, Temp and Ramp
- b. screens and popup menus, full sunlight readable Liquid Crystal Display (LCD) display, full cure view real time graph status on screen;
- c. run the same program on both zones at the same time and/or run separate programs on each zone at the same time, and must be able to identify any heat blanket fault and thermocouple fault;
- d. fully functional and programmable without a Personal Computer (PC);
- e. modify a program in progress, change the Alarm/deviation parameters, ramp rate, cure time and cure temperature, while a cure program is running;
- f. Password protection;
- g. minimum of twenty (20) storable cure programs; and
- h. computer interface for storage/documentation of cures USB flash drive. (Note: Memory Stick is acceptable).

3.4.1.6 Printer

- a. entire cure must be printed;
- b. capture any program changes;
- c. any lost power and alarm data is captured and printed;
- d. real time printing; and
- e. printer is self-contained and mounted within the unit.

3.4.1.7 Power Failure / Recovery:

- a. two (2) minute Auto-Recovery with continued program operation.

3.4.1.8 Alarm Volume:

- a. audible Alarm; ninety (90) decibels (dB), with adjustable volume;
- b. program cure must convert to program hold status when there is an alarm condition; and
- c. program cure resumes when the alarm fault is corrected.

3.4.1.9 Programs Stored to Memory:

- a. twenty (20) separate, operator entered programs

3.4.2 Accessories – General and Naval Purpose System Supporting Equipment

3.4.2.1 The General and Naval Purpose Composite Repair Hot Bond accessories must meet the following specifications:

3.4.2.1.1 Flexible Heating Blankets with a max temperature capability of (500 °F):

- a. quantity two (2) Flexible Heating Blankets – six (6) inch (15.24 cm) square;
- b. quantity four (4) Flexible Heating Blankets – eight (8) inch (20.32 cm) square;
- c. quantity two (2) Flexible Heating Blankets – ten (10) inch (25.4 cm) square and
- d. quantity two (2) Flexible Heating Blankets – twelve (12) inch (30.48 cm) square.

3.4.2.1.2 Thermocouples:

- a. quantity twenty-four (24) - ten (10) foot (3.048 metre) long, Kapton wrapped, J Type Thermocouples with welded ends.

3.4.2.1.3 Hoses/Vacuum:

- a. vacuum source, internal venturi with transducer, eighty to one hundred ten (80-1100 Pounds per Square Inch (PSI) (551.6 – 758.4 kilopascals) at minimum vacuum of twenty-eight (28) inches mercury (in/Hg) (711 millimetres mercury) at sea level;
- b. minimum quantity four (4), ten (10) foot (3.048 metre) long steel braided vacuum Lines; and
- c. minimum quantity four (4), thru-bag vacuum connectors.

3.5 UNIQUE REQUIREMENTS

3.5.1 There are a number of unique requirements related to the operating environment and specific to the application of the Composite Repair Hot Bond System.

3.5.2 Unique Requirement – General Purpose System

3.5.2.1 The General Purpose Composite Repair Hot Bond Systems must be capable of operating in extreme environmental conditions and thus must meet or exceed the performance specification denoted below and in accordance with MIL-STD-810G. In addition to the environmental tests listed in paragraph 3.2.1, testing must be done in accordance with MIL-STD-810G and a report provided complete with method and results.

- a. Sand and dust; Method 510.4 Procedure 1 - Blowing Dust and Procedure 2 - Blowing Sand.

3.5.2.2 In addition to the pneumatic vacuum, an electric vacuum is required:

- a. Electrical vacuum pump, internal Direct Current (DC) pump must provide a minimum of point seventy-five (.75) Cubic Feet per Minute (CFM) (.02 cubic meter/minute) at minimum vacuum of twenty-eight (28) inches mercury (in/Hg) (711 millimetres mercury) at sea level.

3.5.3 Unique Requirement – Naval Purpose System

3.5.3.1 System must be certified Electromagnetic Interference/Compatibility (EMI/C) to MIL-STD-461F for Surface Ship Applications and must meet or exceed the performance specification denoted below and in accordance with MIL-STD-461F. The Contractor must provide

documented Original Equipment Manufacturer (OEM) or independent, accredited 3rd party laboratory successful test results for test method, provided with bid:

- a. CE102 - Conducted Emissions, Power Leads, 10 kHz to 10 MHz;
- b. CS101 - Conducted Susceptibility, Power Leads, 30 Hz to 150 kHz;
- c. CS114 - Conducted Susceptibility, Bulk Cable Injection, 10 kHz to 200 MHz;
- d. CS115 - Conducted Susceptibility, Bulk Cable Injection, and Impulse excitation;
- e. CS116 - Conducted Susceptibility, Damped Sinusoidal Transients, Cables and Power leads; 10 kHz to 100 MHz
- f. RE101 - Radiated Emissions, Magnetic Field, 30 Hz to 100 kHz;
- g. RE102 - Radiated Emissions, Electric Field, 10 kHz to 18GHz;
- h. RS101 - Radiated Susceptibility, Magnetic Field, 30 Hz to 100 kHz; and
- i. RS103 - Radiated Susceptibility, Electric Field 2 MHz to 40 GHz.

3.6 INTEGRATED LOGISTICS SUPPORT MANAGEMENT

3.6.1 Maintenance Requirements

3.6.1.1 Assurances of future support offered will be made on the following:

- a. The Contractor must provide proof of Repair and Overhaul (R&O) capability at a facility in Canada (Third Line) in writing as part of the bid;
- b. The Contractor must provide proof of capability to supply spare parts, overhaul services and related logistics support for the tendered system for a minimum period of ten (10) years;
- c. The Contractor must provide English service bulletins affecting the operation, maintenance and safety of the Composite Repair Hot Bond Systems and Flexible Heating Blankets to the Technical Authority (TA) for the minimum period of ten (10) years for the Composite Repair Hot Bond Systems and any other associated equipment included in this acquisition; and
- d. The Contractor must provide drawings and/or specification sheets and quantity one (1) operator manual to the TA for cataloguing and identification of assemblies and sub-assemblies. Drawings must conform to D-01-400-002/SF-000 – DND Specifications – Drawings, Engineering and Associated Lists.

3.6.2 Special Tools

3.6.2.1 If special tools are required for maintenance tasks in normal set-up or reconfiguration, the Contractor must include these special tools as a deliverable.

3.6.3 Data Plate

3.6.3.1 A Data Identification Plate must be provided in accordance with D-02-002-001/SG-001, Identification Marking of Canadian Military Property and must be installed in the vicinity of the control panel of the Composite Repair Hot Bond System. It must contain, as a minimum, the following information:

- a. Original Equipment Manufacturer (OEM);
- b. Certified EMI/C to MIL-STD-461F for Surface Ship Applications (applicable to Naval Purpose Systems only);
- c. Nomenclature;
- d. Model/Part Number;
- e. Date of Manufacture;
- f. Serial Number;
- g. Dimensions (Length x Width x Height) inches/centimetres (in/cm);
- h. Weight – pounds/kilograms (lb/kg); and
- i. Public Works Government Services Canada (PWGSC) Contract Number.

3.6.4 Manuals

3.6.4.1 The Contractor must provide rights to the Crown to reproduce the information of the OEM manual (Composite Repair Hot Bond System) into a DND formatted bilingual (English/French) Canadian Forces Technical Order (CFTO).

3.6.4.2 Whenever the Contractor applies his own part number to a part manufactured by a different OEM, the OEM part number and North Atlantic Treaty Organization (NATO) Commercial and Government Entity code (NCAGE) are to be inserted in the nomenclature column of the illustrated parts list.

3.6.4.3 The Contractor must indicate the military specifications of parts in the illustrated parts list when applicable.

3.6.4.4 The Contractor must provide a spares list including description, OEM part numbers and a published price list for sparing required for a two (2) year period.

3.6.5 Training

3.6.5.1 The Contractor's training handout in English and French must include all information in written and electronic form in regards to:

- a. Safety precautions to be observed while operating and servicing the equipment;
- b. Pre-operating and pre-shutdown processes and procedures;
- c. Operation processes and procedures;
- d. Calibration processes and procedures
- e. Equipment operating characteristics;
- f. Trouble shooting, testing and adjustments;
- g. Procedures for the use of Special tools and test equipment, if applicable; and
- h. Preventative maintenance procedures including servicing schedules.

4.0 DELIVERABLES

4.1 DELIVERY – COMPOSITE REPAIR HOT BOND SYSTEMS

4.1.1 The Contractor must supply delivery of fifty-two (52) Hot Bonders in two (2) separate deliveries. The first (1st) delivery is for quantity forty-five (45) General Purpose Composite Repair Hot Bond Systems and quantity one (1) Naval Purpose Composite Repair Hot Bond Systems. The second (2nd) delivery must be for quantity six (6) Naval Purpose Composite Repair Hot Bond Systems.

4.2 TRAINING – COMPOSITE REPAIR HOT BOND SYSTEM

4.2.1 The Contractor must conduct one session of on site maintenance and user training for a group of approximately twenty (20) students per session at the following locations: Canadian Forces Base (CFB) Cold Lake, Alberta; CFB Trenton, Ontario; CFB Bagotville, Quebec; CFB Borden, Ontario; CFB Shearwater, Nova Scotia and CFB Comox, British Columbia. Proposal must include cost of course material as well as Contractor's travel and living costs. The language of instruction will be English, with French language of instruction in CFB Bagotville, Quebec.

4.2.2 The Contractor must provide the TA with one (1) hard copy and one (1) electronic copy (in Microsoft Office Suite 2003) of the training course outline. Training schedule will be finalized by the TA with the Contractor. Training sessions will not occur prior to the receipt of the Composite Repair Hot Bond Systems and their distribution to the training locations.

4.3 MANUALS – COMPOSITE REPAIR HOT BOND SYSTEM

4.3.1 The Contractor must provide quantity one (1) hard copy of applicable operating, maintenance, repair & overhaul and illustrated parts list manual(s) shipped with each system. The Contractor must provide all applicable operating, maintenance, repair & overhaul and illustrated parts list publications (PDF) in accordance with C-01-100-100/AG-005, Adoption of Commercial and Government Publications. The publications must contain enough detail to permit local repair and operation. The publications must be packaged in accordance with D-LM-008-022/SG-000 – Standard for Packaging of Documentation. The Contractor must provide quantity three (3) hard copy and quantity one (1) electronic copy (PDF) of applicable operating,

maintenance, repair & overhaul and illustrated parts list manual(s) in the Contractor's format submitted with proposal, for TA review and approval.

4.4 DELIVERABLES TABLE

ITEM	DESCRIPTION	SOW REF	QTY	DELIVERY SCHEDULE	DESTINATION
1	Composite Repair Hot Bond System. Item One (1) - General Purpose System	3.4	45	8 MACA*	25 Canadian Forces Supply Depot PO Box 4000 Stn K Montreal, QC H1N 3R9
2	Composite Repair Hot Bond System. Item Two (2) – Naval Purpose System. 1 st Delivery	3.4	1	8 MACA*	25 Canadian Forces Supply Depot PO Box 4000 Stn K Montreal, QC H1N 3R9
	Composite Repair Hot Bond System. Item Two (2) – Naval Purpose System. 2 nd Delivery	3.4	6	10 MACA*	25 Canadian Forces Supply Depot PO Box 4000 Stn K Montreal, QC H1N 3R9
3	Accessories	3.4.2	Per System	Delivered with each Composite Repair Hot Bond System.	25 Canadian Forces Supply Depot PO Box 4000 Stn K Montreal, QC H1N 3R9
4	MIL-STD-810G Environmental Test Results	3.2.1 3.2.2 3.5.2.1	1	Delivered with proposal to PWGSC	PWGSC CA
5	MIL-STD-461E EMI/C Test Results	3.5.3	1	Delivered with proposal to PWGSC	PWGSC CA
6	Service Bulletins affecting the operation, maintenance and safety of the Composite Repair Hot Bond Systems and Flexible Heating Blankets	3.6.1.1c	1 (hard copy) 1 (electronic**)	Delivered to the TA from contract award until the full service life (10) years	Contract TA Attn: WO Douglas Hennessey DAEPM (FT) 6-3-6-2 Department of National Defence Ottawa, Ontario K1A 0K2
7	Drawings/Specification Sheets/Manual	3.6.1.1d	1 per Assembly 1 per Subassembly 1 Manual	Delivered with proposal to PWGSC	PWGSC CA
8	Special Tools	3.6.2	1 per System (if applicable)	Delivered with each Composite Repair Hot Bond System.	25 Canadian Forces Supply Depot PO Box 4000 Stn K Montreal, QC H1N 3R9
9	Recommended Spare Parts List	3.6.4.5	1	Delivered with proposal to PWGSC	PWGSC CA
10	Training Handout (English/French)	3.6.5.1	1 (hard copy English) 1 (hard copy French) 1 (electronic**,	Delivered to the TA for review and approval in advance of training	Contract TA Attn: WO Douglas Hennessey DAEPM (FT) 6-3-6-2 Department of National

			English/French)		Defence Ottawa, Ontario K1A 0K2
11	Training - Composite Repair Hot Bond System	4.2.1	20 Students (approx)	Training schedule will be finalized by the TA with the successful Contractor	4 Wing CFB Cold Lake PO Box 6550 Stn Forces Cold Lake, AB T9M 2C6
12	Training - Composite Repair Hot Bond System	4.2.1	20 Students (approx)	Training schedule will be finalized by the TA with the successful Contractor	8 Wing CFB Trenton PO Box 1000 Stn Forces Trenton, ON K0K 3W0
13	Training - Composite Repair Hot Bond System (To be given in French)	4.2.1	20 Students (approx)	Training schedule will be finalized by the TA with the successful Contractor	3 Wing CFB Bagotville CP 5000 STN Main Alouette QC G0U 1A0
14	Training - Composite Repair Hot Bond System	4.2.1	20 Students (approx)	Training schedule will be finalized by the TA with the successful Contractor	16 Wing CFB Borden PO Box 1000 Stn Main Borden ON L0M 1C0
15	Training - Composite Repair Hot Bond System	4.2.1	20 Students (approx)	Training schedule will be finalized by the TA with the successful Contractor	12 Wing CFB Shearwater PO Box 5000 Stn Main Shearwater NS B0J 3A0
16	Training - Composite Repair Hot Bond System	4.2.1	20 Students (approx)	Training schedule will be finalized by the TA with the successful Contractor	19 Wing CFB Comox PO Box 1000 Stn Main LAZO BC V0R 2K0
17	Manuals - Composite Repair Hot Bond System	4.3.1	52	Delivered with each Composite Repair Hot Bond System.	25 Canadian Forces Supply Depot PO Box 4000 Stn K Montreal, QC H1N 3R9
18	Manuals - Composite Repair Hot Bond System	4.3.1	3 (hard copy) 1 (electronic**)	Delivered with proposal to PWGSC	PWGSC CA
*MACA = Months After Contract Award **To be provided in PDF format					

ANNEX B
TECHNICAL EVALUATION PLAN
FOR
COMPOSITE REPAIR HOT BOND SYSTEM

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1.0 SCOPE

1.1 PURPOSE

1.1.1 The evaluation plan described in this annex defines the methodology by which each submitted proposal for a Composite Repair Hot Bond System (Hot Bonder) will be evaluated.

2.0 GENERAL

2.1 TECHNICAL EVALUATION

2.1.1 Each Bidder's proposal will be evaluated for its technical compliance.

2.2 BASIS OF SELECTION

2.2.1 The successful proposal selection will offer a fully compliant proposal at the lowest overall cost.

2.3 TECHNICAL COMPLIANCE

2.3.1 To be compliant, the Contractor must complete the technical compliance matrix indicating whether their Composite Repair System is compliant or not and providing specific detail on how the proposed Composite Repair System meets the requirement.

3.0 EVALUATION REVIEW GUIDE

3.1 MANDATORY REQUIREMENTS FOR GENERAL PURPOSE SYSTEM

REQUIREMENTS

Mandatory requirements must be met or exceeded and the Contractor must provide specific detail on product compliance.

Mandator y	SOW Referenc e	CRITERIA	COMPLIANCE DETAILS
M1		The Contractor must provide a written statement of compliance, confirming that all work, requirements, specifications, and deliverables outlined within the Statement of Work must be delivered by the Contractor in accordance with the applicable DID/CDRL, specification, term(s) and/or condition(s) as per the RFP.	
M2	3.1.2	The Contractor must provide total quantity fifty-two (52) dual zone Composite Repair Hot Bond Systems, which must include the provision of equipment, training, documentation and Integrated Logistics Support (ILS) management. The delivery must be for quantity forty-five (45) General Purpose Composite Repair Hot Bond Systems and quantity seven (7) Naval Purpose Composite Repair Hot Bond Systems.	
M3	3.1.4	The Contractor must grant to Canada an irrevocable option to purchase additional quantities. This option must be exercised in whole or in part, for a minimum quantity of one (1) up to a maximum of twenty (20) systems for 24 months after the contract has been awarded. Either or both systems, same terms and conditions.	
	3.6	INTEGRATED LOGISTICS SUPPORT MANAGEMENT	
M4	3.6.1.1 a	The Contractor must provide proof of Repair and Overhaul (R&O) capability at a facility in Canada (Third Line)	
M5	3.6.1.1b	The Contractor must provide proof of capability to supply spare parts, overhaul services and related logistics support for the tendered system for a minimum period of ten (10) years.	

M6	3.6.1.1 c	The Contractor must provide service bulletins affecting the operation, maintenance and safety of the Composite Repair Hot Bond Systems and Flexible Heating Blankets to the Technical Authority (TA) for the Composite Repair Hot Bond Systems and any other associated equipment included in this acquisition for a minimum period of ten (10) years.	
M7	3.6.1.1 d	The Contractor must provide drawings and/or specification sheets and operator manual to the TA for cataloguing and identification of assemblies and sub-assemblies. Drawings must conform to D-01-400-002/SF-000 - DND Specifications – Drawings, Engineering and Associated Lists.	
M8	3.6.2.1	If special tools are required for maintenance tasks in normal set-up or reconfiguration, the Contractor must include these special tools as a deliverable.	
M9	3.6.3.1	<p>A Data Identification plate must be provided in accordance with D-02-002-001/SG-001, Identification Marking of Canadian Military Property and must be installed in the vicinity of the control panel of the Composite Repair Hot Bond System. It must contain, as a minimum, the following information:</p> <ul style="list-style-type: none"> -Original Equipment Manufacturer (OEM) -Certified EMI to MIL-STD-461F for Surface Ship Applications (applicable to Naval Purpose Systems only) -Nomenclature; -Model/Part Number -Date of Manufacture -Serial Number -Dimensions (Length x Width x Height) inches/centimetres (in/cm) -Weight – pounds/kilograms (lb/kg) -Public Works Government Services Canada (PWGSC) Contract Number. 	
M10	3.6.4.1	The Contractor must provide rights to the Crown to reproduce the information of the OEM manual (Composite Repair Hot Bond System) into a DND formatted bilingual (English/French) Canadian Forces Technical Order (CFTO).	
M11	3.6.4.2	Whenever the Contractor applies his own part number to a part manufactured by a different OEM, the OEM part number and North Atlantic Treaty Organization (NATO) Commercial and Government Entity code (NCAGE) are to be inserted in the nomenclature column of the illustrated parts list.	

M12	3.6.4.3	The Contractor must indicate the military specifications of parts in the illustrated parts list when applicable.	
M13	3.6.4.4	The Contractor must provide a spares list including description, OEM part numbers and a published price list for spares required for a two (2) year period.	
M14	3.6.5.1	<p>The Contractor's training handout in English and French must include all information in written and electronic form in regards to:</p> <ul style="list-style-type: none"> -Safety precautions to be observed while operating and servicing the equipment -Pre-operating and pre-shutdown procedures -Operation procedures -Calibration procedures -Equipment operating characteristics -Trouble shooting, testing and adjustments - Procedures for the use of Special tools and test equipment if applicable -Preventative maintenance procedures including servicing schedules. 	