



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC / Réception des
soumissions - TPSGC

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

Proposal To: Public Works and Government
Services Canada

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

Proposition aux: Travaux Publics et Services
Gouvernementaux Canada

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

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Ship Refits and Conversions / Radoubss et modifications de
navires and / et

11 Laurier St. / 11, rue Laurier

6C2, Place du Portage

Gatineau, Québec K1A 0S5

Title - Sujet Shock Mitigation Seats Sièges de barre atténuant de chocs	
Solicitation No. - N° de l'invitation F7049-210159/A	Date 2022-05-11
Client Reference No. - N° de référence du client F7049-210159	
GETS Reference No. - N° de référence de SEAG PW-\$\$MD-039-28674	
File No. - N° de dossier 039md.F7049-210159	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2022-06-07 Heure Avancée de l'Est HAE	
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: Blackburn, Jessica	Buyer Id - Id de l'acheteur 039md
Telephone No. - N° de téléphone (819) 230-2672 ()	FAX No. - N° de FAX () -
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

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	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

1.1 Security Requirements

There is no security requirement associated with this solicitation.

1.2 Requirement

The CCG Vessel Life Extension (VLE) program requires the supply of four (4) shock mitigating helm chairs for each of the thirty-six (36) 47 foot Motor Life Boat (MLB) vessels as part of the MLB VLE. Total number of shock seats to be delivered is 144 with the option of 16 more.

1.3 Debriefings

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

1.4 Trade Agreements

The requirement is subject to the provisions of the following Trade Agreements: CETA/WTO-AGP/CPTPP/FTAs with Peru/Colombia/Panama/Korea/UK/Chile

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

B1000T (2014-06-26), Condition of Material - Bid

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on the front page of the bid solicitation.

PWGSC Bid Receiving Unit

Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Bids transmitted by facsimile or in hardcopy to PWGSC will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **five (5) working 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.

Any clarifications or changes to the bid solicitation resulting from the questions and answers will be included as an amendment to the bid solicitation.

2.4 Applicable Laws

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

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

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

2.6 Improvement of Requirement during Solicitation Period

Should bidders consider that the Specifications or the Requirement contained in this bid solicitation could be improved technically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion.

Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least seven (7) calendar days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

The Bidder must submit its bid electronically in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

Due to the nature of the bid solicitation, bids transmitted by facsimile or in hardcopy will not be accepted.

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

Information Required in the Bids

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

To be declared responsive, a Bid must

- a) meet all the criteria in Annex A Statement of Work;
- b) provide the required certifications.

4.1.2 Financial Evaluation

4.1.2.1 Evaluation of Price - Bid

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

4.2 Basis of Selection

A bid must comply with the requirements of the bid solicitation to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

Bidders should note that all contract awards are subject to Canada's internal approvals process, which includes a requirement to approve funding in the amount of any proposed contract. Notwithstanding that a Bidder may have been recommended for award of contract, issuance of any contract will be contingent upon internal approval in accordance with Canada's policies. If such approval is not given, no contract will be awarded.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

There is no security requirement applicable to the Contract.

6.2 Requirement

The CCG Vessel Life Extension (VLE) program requires the supply of four (4) shock mitigating helm chairs for each of the thirty-six (36) 47 foot Motor Life Boat (MLB) vessels as part of the MLB VLE. Total number of shock seats to be delivered is 148 with the option of 20 more.

6.2.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described in the Annex "A" – Statement of Work, under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within 18 months after contract award by sending a written notice to the Contractor.

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

6.3.1 General Conditions

2010A ([2021-12-02](#)) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Terms of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract award to December 31, 2024 inclusive.

6.4.2 Delivery Date

All the deliverables must be received:

Delivery #1: On or before January 31, 2023

Delivery #2: On or before July 31, 2023

Optional Seats: on or before December 31, 2024.

6.4.4 Delivery Point

Delivery of the requirement will be made to the delivery points specified at Annex "A", Statement of Work.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Jessica Blackburn
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Marine Systems Directorate
Telephone: 819 230-2672
E-mail address: Jessica.Blackburn@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.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

(The Contracting Authority will insert the Technical Authority information at Contract award.)

Name: _____
Title: _____
Organization: _____
Address: _____

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

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

6.5.3 Contractor's Representative

The Contractor's Representative for the Contract is:

(The Contracting Authority will insert the contact information, as indicated by the Contractor in his bid, at Contract award.)

Name: _____
Telephone: _____

Facsimile: _____

E-mail: _____

6.6 Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a [Public Service Superannuation Act](#) (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with [Contracting Policy Notice: 2012-2](#) of the Treasury Board Secretariat of Canada.

6.7 Payment

6.7.1 Basis of Payment - Firm Price, Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price and/or firm unit price(s), as specified in Annex "B" – Pricing Sheet in Canadian dollars. Customs duties are included and Applicable Taxes are extra.

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

6.7.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

6.7.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card; or
- c. Direct Deposit (Domestic and International).

6.8 Invoicing Instructions

1. Invoices are to be made out to:

Canadian Coast Guard Marine Engineering
DFO.invoicing-facturation@DFO-MPO.GC.CA
Attention of: Diane Beaudry-Boucher

And;

The original invoice to be forwarded for verification to:

Public Works and Government Services Canada
Marine Systems Directorate
Ship Refit Division
Contract Authority
Attention: Jessica Blackburn
Email: jessica.blackburn@tpsgc-pwgsc.gc.ca

2. Canada will only make payment upon receipt of a satisfactory invoice duly supported by specified release documents and any other documents called for under the Contract.
3. The Contractor shall not submit an invoice prior to the completion and acceptance of the Work or shipment of the items to which it relates.

6.9 Certifications and Additional Information

6.9.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.10 Applicable Laws

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

6.11 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 general conditions 2003 (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____, *(insert date of bid)* *(If the bid was clarified or amended, insert at the time of contract award.)*, as clarified on _____ " **or** ", as amended on _____ " *and insert date(s) of clarification(s) or amendment(s)*).

6.12 Shipping Instructions - Delivered Duty Paid

Incoterms 2000 "DDP Delivered Duty Paid", to the delivery point specified at Annex "A", Statement of Work.

6.13 Packaging and Preparation for Delivery

All components must be properly packaged to avoid damage and ensure safe delivery at destination.

Items must be packed in weather resistant packing within closed shipping crates suitable for handling, loading, transportation and long term storage of the chairs in their upright position. All packaged chairs and their accessories must be properly identified and tagged.

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Amd. No. - N° de la modif.
File No. - N° du dossier
039md.F7049-210159

Buyer ID - Id de l'acheteur
039md
CCC No./N° CCC - FMS No./N° VME

Crates must be constructed to allow the crates to be easily lifted with slings/pallets under the crate body without causing any damage to the crate. The crates must be built to prevent distortion of the Equipment

6.14 Export Licenses

Where material is to be imported into Canada, the Contractor is responsible for obtaining all necessary export licenses from the country of origin in sufficient time to enable the export.

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Solicitation No. - N° de l'invitation
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F7049-210159

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ANNEX "A", STATEMENT OF WORK



Requirement for 47' Motorized Lifeboat Shock Mitigating Helm Chairs

1. Background

- 1.1. The Canadian Coast Guard operates a fleet of thirty-six (36) 47-foot Motorized Lifeboats at various locations across the country. Each vessel in the fleet is currently fitted with four (4) fixed helm chairs, with no shock mitigation, and four (4) jump seats with no shock mitigation.
- 1.2. Due to the extreme weather conditions that these vessels tend to operate in, or can be called upon to operate in, the seats pose the potential for personal injury due to the impact forces that are transferred through the hull, to the seat, and therefore the operator.

2. Scope of Work

- 2.1. The scope of this project will require the successful bidder to supply four (4) shock mitigating helm chairs for each of the thirty-six (36) vessels as part of their upcoming vessel life extensions. Total number of shock seats to be delivered is 144, with the option of 16 more.
- 2.2. The successful bidder must also provide assembly and installation instructions.

3. General

- 3.1. The seats provided by the Contractor must interface with the existing seat deck foundations which consist of:
 - 3.1.1.1. The bolt pattern is 11" Pitch Circle Diameter (PCD) with 8 equally spaced 5/16" fasteners; and
 - 3.1.1.2. The bolting foundation has an outside diameter of 12.25".
 - 3.1.1.3. See figure below:



Statement of Work

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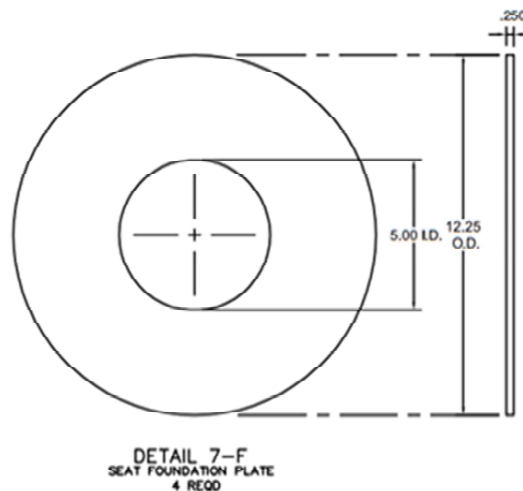


Figure 1: Mounting Plate

- 3.2. Any modifications to the mounting plate or to the pedestal base must be at the expense of the Contractor.
- 3.3. Open and Enclosed Bridge Seats must be full isolation seats, meaning they must be fully supporting, shock mitigating, upright seats with seat pan, seat back, arm rests, and a lap belt.
- 3.4. The configuration must be a raised seat with foldable foot supports and adjustable armrests or similar arrangement to support the jog lever steering system. No jockey/rump seat will be considered.
- 3.5. Selected seats must accommodate weight for 5th percentile female (109.8 lbs) through 95th percentile male (267.2 lbs) IAW ASTM F1166-07 (2013) Standard Practice for Human Engineering Design for Marine Systems, Equipment, And Facilities. The seats must allow personnel to wear applicable personal protective equipment, which includes, but is not limited to, dry suit and personal flotation device.
- 3.6. Shock mitigating seats must be capable of mitigating shock for occupant payloads between 130 to 240 pounds up to 6Gs for a nominal impact duration of 0.10 seconds without bottoming the seat suspension.
- 3.7. Seats in failure mode must not allow a bottom-out event to occur in boat acceleration up to 7G.
- 3.8. All parts and materials must be corrosion resistant and suitable for continuous exposure to saltwater spray and sunlight.
- 3.9. The seat, including arm rests, must have full closed cell foam cushions contoured for lateral and lower back support.
- 3.10. Cushions must be covered with marine grade vinyl or other suitably acceptable wear and UV resistant material.
- 3.11. The seat soft materials must be fire retardant material in accordance with FMVSS-302.
- 3.12. Each seat must be equipped with a safety belt restraint system which secures the occupant to the seat through the full range of boat motions (360° of roll and pitch, or any combination thereof).
- 3.13. The safety belt restraint must have a single quick release mechanism.



Statement of Work

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- 3.14. Safety belt hardware, except the release mechanism, must be of a corrosion resistant material. Canada prefers the release mechanism to be made of a corrosion resistant material, including spring, but will accept mild steel for the release mechanism.
- 3.15. Safety belts for all seats must be identical unless otherwise specified.
- 3.16. All seat frame and outer pedestal surfaces must be resistant to exposure to sea water, ultraviolet rays and mechanical impacts, and be coloured white or black. All chairs must be the same color.
- 3.17. The seat must be designed to withstand the following motions and accelerations with a 250 lb occupant:
 - 3.18.1.1 Roll of 360°;
 - 3.18.1.2 Pitch of 360°; and
 - 3.18.1.3 Maximum Time for Rollover is 10 seconds.
- 3.19. Due to the impact of weight changes on this class of vessel, and the effect weight changes will have on vessel stability and rollover capabilities, each complete seat, shock mitigating system and mounting hardware must not weigh more than 110 lb (50 kg).
- 3.20. Due to the limited space within the enclosed bridge, the seats proposed by the Contractor must fit within + or – 10% of the existing seats space envelope. The existing seats are Stidd 500-200 Series, Full Size Admiral Low Back seats.
- 3.21. Each of the two arm rests fitted to each of the helm seats must rotate from a horizontal lowered position to a vertical raised position for access into and out of the seat. The arm rests must be fitted to the left and right side (or inboard & outboard) of each seat at a height proportionate to the chairback/seat design. Each arm rest must lock in both the raised and lowered positions.
- 3.22. Seat adjustment controls must be reachable and usable from the restrained position in the seat for the full range of personnel.
- 3.23. All seats must be adjustable without tools. All adjustments must be limited to unlocking, adjustment, and locking motions. Adjustments must not have additional steps to position the seat for an operator.
- 3.24. Seats must be equipped with swivel capability.
- 3.25. The seats and restraining system on the open bridge must allow the crew member to turn to see behind the boat.
- 3.26. The back rest angle on full isolation seats must be no more than 110 degrees from the deck plane. The back rest-to seat pan angle must be between 93 and 103 degrees.
- 3.27. The enclosed bridge seats must have a minimum vertical height adjustment of 6" with adjustment and lock at any point within the range. The seat must have graduated markings indicating pedestal height adjustment. The height from base (where it mounts to the bolting foundation on the vessel) to top of horizontal seat cushion must be 30.5" (775mm) at the minimum setting. An automatic lifting device must be fitted to the seat pedestal/foundation to assist with the height adjustment.
- 3.28. The Open bridge seats must have a minimum vertical height adjustment of 6" with adjustment and lock at any point within the range. The height from base (where it mounts to the bolting foundation on the vessel) to top of horizontal seat cushion must be 32.8" (833mm) at a minimum. An automatic lifting device must be fitted to the seat pedestal/foundation to assist with the height adjustment.



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- 3.29 The enclosed bridge seat must slide fore and aft at least 5" (126mm) with adjustment and lock at any point within the range.
- 3.30 Foot supports must swing up and down, and lock in each position.
- 3.31 The two open bridge seats must come equipped with removable weather covers to protect the seats from UV damage and wear due to the elements when not in use.
- 3.32 The enclosed bridge seats must each have a mounting arrangement to accept a Hypro Marine joystick fitted on the outboard armrest. For details, refer to Hypro Marine Joystick Assembly Drawing - HM1973 - Joystick Assy Spring Iss4. The Contractor is not required to supply the Hypro Marine joysticks.
- 3.33 All dissimilar/noble metals must be galvanically isolated from each other.
- 3.34 All parts must be manufactured from nonmagnetic marine grade materials.
- 3.35 The Contractor is responsible for all costs associated with crating/packaging the helm chairs for shipment.
- 3.36 The Contractor is responsible for all shipment costs of the helm chairs.
- 3.37 The Contractor must provide a one (1) year manufacturer's warranty covering all defects for helm chairs starting from the date of delivery.

4 Reference Documents

- 4.18 Drawing Number 47B MLB 600-010 – Outfit and Furnishings List
- 4.19 Drawing Number 47B MLB 110-630 – Enclosed Bridge Arrangement
- 4.20 Hypro Marine Joystick Assembly Drawing - HM1973 - Joystick Assy Spring Iss4
- 4.21 ASTM F1166-07 (2013) - Standard Practice for Human Engineering Design For Marine Systems, Equipment, and Facilities
- 4.22 Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302), Flammability of Interior Materials

5 Schedule

- 5.18 The first three vessels started VLE in November and December of 2021. Each VLE work period will take a total of five and one half (5.5) months.
- 5.19 Contract will be for the delivery of 144 seats (36 vessels) with the option of an additional 16 seats.
- 5.20 The Contractor must send the seats directly to Coast Guard Facilities to be installed by Coast Guard Personnel.
- 5.21 The Contractor must provide a production/supply schedule to demonstrate the least amount of time required for delivery of 144 shock mitigating helm chairs.

6 Work Location

- 6.1.1 Twenty four (24) seats must be shipped to:
 - Canadian Coast Guard
 - Stores 05C - Warehouse Door #1
 - 13 Akerley Blvd
 - Dartmouth, NS
 - B3B 1J6



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- 6.1.2 Twenty four (24) seats must be shipped to:
MPO/GCC/Atelier naval, C-200
Institut Maurice Lamontagne,
850, route de la Mer, C.P. 1000,
Mont-Joli, Québec,
G5H 3Z4
- 6.1.3 Forty four (44) seats must be shipped to:
Canadian Coast Guard | Garde Côtière Canadienne
Fisheries & Oceans Canada | Pêches et Océans Canada
867 Lakeshore Road
Burlington, ON
L7S 1A1
- 6.1.4 Fifty two (52) seats must be shipped to:
Marine Engineering, Coast Guard
Institute of Ocean Science
9860 West Saanich Road
Sidney, BC, V8L 4B2

7 Inspection

- 7.1 A visual inspection by the Contractor and Technical Authority in attendance, of general workmanship including that of hardware, materials, and coatings must be conducted.

8 Testing

- 8.1 The Contractor must provide testing specifications for the shipyards or Coast Guard personnel to comply with. The testing must include, but is not limited to:
- demonstrate all functions of the seats and pedestals to the Technical Authority.

9 Certification

- 9.1 The supplied seats and pedestals must be approved by TCMS for heavy duty marine applications and must be delivered with certification documentation. Seats and pedestals must not be installed until certification is reviewed and approved by the Technical Authority.

10. Deliverables

- 10.1 The Contractor must supply the Technical Authority with an electronic copy of drawings of the seats, pedestals and installation.
- 10.1.2 The Contractor must amend the original drawings (Drawing Number 47B MLB 600-010 – Outfit and Furnishings List & Drawing Number 47B MLB 110-630 – Enclosed Bridge Arrangement) to show the installation of the new seats.



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- 10.1.3 The Contractor must produce two (2) electronic PDF copies of a final report for the Technical Authority upon completion of the above noted scope of work. The final report must be available in both official languages and must contain the results of all inspections, testing, manufacturer information, part numbers and details of work completed.
- 10.1.4 The Contractor must include all associated manuals and documentation related to this statement of work in English and French.

Solicitation No. - N° de l'invitation
F7049-210159/A
Client Ref. No. - N° de réf. du client
F7049-210159

Amd. No. - N° de la modif.
File No. - N° du dossier
039md.F7049-210159

Buyer ID - Id de l'acheteur
039md
CCC No./N° CCC - FMS No./N° VME

ANNEX B

Pricing Sheet

All prices are in Canadian dollars (CAD) and include all applicable Customs Duties.

ANNEX B – PRICING DATA SHEETS F7049-059/A CCG Shock Mitigating Seats					
Bidder Name: DELIVERY ADDRESS: Canadian Coast Guard Stores 05C - Warehouse Door #1 13 Akerley Blvd Dartmouth, NS B3B 1J6 Departement: DFO/CCG				001	
Year of Delivery A	Number of New Seats B	Price per Unit C	Extended Price D = B * C D	Delivery E	Sub-Total F = D + E F
#1 - 2023	12	\$ _____	\$ _____	\$ _____	\$ _____
#2 - 2023	12	\$ _____	\$ _____	\$ _____	\$ _____
Ootional Seats	4	\$ _____	\$ _____	\$ _____	\$ _____
TOTAL SEATS	28	Subtotal:	\$ _____	\$ _____	\$ _____
DELIVERY ADDRESS: Canadian Coast Guard Fisheries & Oceans Canada 867 Lakeshore Road Burlington, ON L7S 1A1				002	
Year of Delivery A	Number of New Seats B	Price per Unit C	Extended Price D = B * C D	Delivery E	Sub-Total F = D + E F
#1 - 2023	22	\$ _____	\$ _____	\$ _____	\$ _____
#2 - 2023	22	\$ _____	\$ _____	\$ _____	\$ _____
Ootional Seats	4	\$ _____	\$ _____	\$ _____	\$ _____
TOTAL SEATS	48	Subtotal:	\$ _____	\$ _____	\$ _____
DELIVERY ADDRESS: MPO/GCC/Atelier naval, C-200 Institut Maurice Lamontagne, 850, route de la Mer, C.P. 1000, Mont-Joli, Québec, GSH 3Z4				003	
Year of Delivery A	Number of New Seats B	Price per Unit C	Extended Price D = B * C D	Delivery E	Sub-Total F = D + E F
#1 - 2023	12	\$ _____	\$ _____	\$ _____	\$ _____
#2 - 2023	12	\$ _____	\$ _____	\$ _____	\$ _____
Ootional Seats	4	\$ _____	\$ _____	\$ _____	\$ _____
TOTAL SEATS	28	Subtotal:	\$ _____	\$ _____	\$ _____
DELIVERY ADDRESS: Canadian Coast Guard Marine Engineering, Coast Guard Institute of Ocean Science 9860 West Saanich Road Sidney, BC, V8L 4B2				004	
Year of Delivery A	Number of New Seats B	Price per Unit C	Extended Price D = B * C D	Delivery E	Sub-Total F = D + E F
#1 - 2023	26	\$ _____	\$ _____	\$ _____	\$ _____
#2 - 2023	26	\$ _____	\$ _____	\$ _____	\$ _____
Ootional Seats	4	\$ _____	\$ _____	\$ _____	\$ _____
TOTAL SEATS	56	Subtotal:	\$ _____	\$ _____	\$ _____

F001+F002+F003+F004 =	\$ _____
TAX:	\$ _____
TOTAL:	\$ _____