



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scotia
B3J 1T3
Bid Fax: (902) 496-5016

**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 Marine Fenders - CFB Halifax	
Solicitation No. - N° de l'invitation W010C-190176/A	Date 2019-02-18
Client Reference No. - N° de référence du client W010C-19-0176	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-409-10653	
File No. - N° de dossier HAL-8-81237 (409)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-03-07	Time Zone Fuseau horaire Atlantic Standard Time AST
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: Taylor, Kathie	Buyer Id - Id de l'acheteur hal409
Telephone No. - N° de téléphone (902) 403-4837 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE WILLOW PARK BLDG 7 HALIFAX NOVA SCOTIA B3K5X5 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

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
Halifax
Nova Scot
B3J 1T3

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

1.1 Requirement

Department of National Defence, CFB Halifax, NS, has a requirement for the supply, delivery and make ready to deploy of eight (8) Marine fenders, as fully detailed in Annex A.

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

1.4 Canadian Content

The requirement is subject to a preference for Canadian goods.

1.5 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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>) 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 (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

Bids must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the bid solicitation:

*Bid Receiving
Public Works and Government Services Canada
1713 Bedford Row*

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Halifax, N. S. B3J 1T3

ePost: TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca

Bids/Offer will be not be accepted if emailed directly to this email address. **This email is to initiate an ePost Connect conversation, as detailed in the Standard Instructions 2003.**

Facsimile: 1-902-496-5016

2.3 Enquiries - Bid Solicitation

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

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

2.4 Applicable Laws

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

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

3.1 Bid Preparation Instructions

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications
Section IV: Additional Information

If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (**two hard copies**)
Section II: Financial Bid (one hard copy)
Section III: Certifications (one hard copy)

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If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other 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 should:

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

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements or how they will carry out the Work, as fully detailed in Annex A.

Section II: Financial Bid

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

3.1.1 Electronic Payment of Invoices – Offer

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “D” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “D” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

3.2 SACC Manual Clauses

B100T Condition of Material (2014-06-26)

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.
- (c) The evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

As fully detailed in Annex A.

4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP Incoterms 2000, Canadian customs duties and excise taxes included, where applicable.

4.2 Basis of Selection

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

PART 5 – CERTIFICATIONS 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.

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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.

5.1.2 Additional Certifications Required with the Bid

5.1.2.1 Canadian Content Certification

This procurement is **conditionally** limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the good(s) offered are Canadian goods, as defined in clause [A3050T](#), may be considered.

Failure to provide this certification completed with the bid will result in the good(s) offered being treated as non-Canadian goods.

The Bidder certifies that:

() the good(s) offered are Canadian goods as defined in paragraph 1 of clause [A3050T](#).

Bidders should submit this certification completed with their bid. If the certification is not completed and submitted with the bid, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to submit this completed certification. Failure to comply with the request of the Contracting Authority and submit the completed certification will render the bid non-responsive.

5.1.2.1.1 SACC Manual clause A3050T (2018-12-06) Canadian Content Definition

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

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 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex A.

6.2 Standard Clauses and Conditions

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

6.2.1 General Conditions

2010A (2018-06-21), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

6.3 Term of Contract

6.3.1 Delivery Date

Please provide best delivery: _____

6.4 Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Kathie Taylor
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
1713 Bedford Row
Halifax, NS B3J 3C9
Telephone: 902-403-4837
Facsimile: 902-496-5016
E-mail address: kathie.taylor@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.

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6.4.2 Project Authority

The Project Authority for the Contract is: (to be inserted at contract award)

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: _____

E-mail address: _____

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

6.4.3 Contractor's Representative

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: _____

E-mail address: _____

6.5 Payment

6.5.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a *firm price for a cost of \$ _____ (to be inserted at contract award)*. Customs duties are excluded 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.

6.5.2 Method of Payment

H1000C (2008-05-12) Single Payment

6.5.3 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;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.6 Invoicing Instructions

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

6.7 Certifications and Additional Information

6.7.1 Compliance

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

6.8 Applicable Laws

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

6.9 Priority of Documents

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

- (a) the Articles of the Agreement;
- (b) the general conditions 2010A (2018-06-21);
- (c) Annex A, Statement of Requirement;
- (d) the Contractor's bid dated _____

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6.10 SACC Manual Clauses

G1005C Insurance Requirements (2008-05-12)

A9062C Canadian Forces Site Regulations (2011-05-16)

ANNEX A Requirement

PART 1 – GENERAL

1.1 DESCRIPTION OF WORK

- 1.1.1 This specification covers the supply, unpacking, and making ready to deploy into the water of eight (8) netless, sling type, smooth sided, high energy absorbing, off the shelf, commercial, suspended marine fenders engineered in accordance with the requirements herein.
- 1.1.2 Fenders shall be protected from exposure to damaging liquids, oils, greases, and other foreign materials during shipping and transport. Fenders shall be undamaged when delivered to site and shall be handled, transported, and stored so as to prevent damage such as bending or abrading end fittings or cutting of fender skin.

1.2 UNPACKING & MAKING READY FOR DEPLOYMENT

- 1.2.1 Vendor shall be responsible to off load each fender from the delivery vehicle and place each fender onto the ground. Vendor shall be responsible to place each fender in the designated storage area within the HMC Dockyard. Vendor shall pay all associated costs.
- 1.2.2 Once fenders have been placed in the designated storage area within the HMC Dockyard, Vendor shall be responsible to remove all packing and shipping materials from the fenders and make fenders ready to be deployed into the water.
- 1.2.3 Vendor shall supply a minimum of four (4) wooden chocks per fender. Wooden chocks shall be of sufficient length, width, height, and angle and of design capable of preventing fenders from rolling away or becoming dislodged by wind and weather, once they have been placed on level ground. Vendor shall secure each fender in place with wooden chocks provided.
- 1.2.4 Vendor shall collect and separate all waste packing and shipping materials. Vendor shall transport and dispose of same into the appropriate marked waste bins on site at HMC Dockyard. Marked bins are as follows: wood, metal, all other garbage.

1.3 REJECTION

- 1.3.1 Fenders that are delivered to the site damaged, or that do not conform to the requirements of this specification upon delivery, will be rejected by the Owner.
- 1.3.2 Fenders rejected by the Owner shall be removed from site by the Vendor and replaced with new fenders meeting the requirements of this specification. Vendor shall pay all costs associated with removal and replacement of rejected fenders.

1.4 INSTALLATION

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1.4.1 There is no requirement on the part of the Vendor for installation of the fenders on a jetty, deployment of the fenders into the water, or provision of any installation hardware.

1.5 SECURITY REQUIREMENTS

1.5.1 The delivery and work area will be inside the secure Administrative Zone within the HMC Dockyard.

1.5.2 Vendor shall complete a Contractor Car Pass Request form in order to allow vehicle access into the HMC Dockyard and Administrative Zone.

1.5.2.1 Vendor shall submit a completed Contractor Car Pass Request form to DND Project Manager at least five (5) business days in advance of the date for which access into HMC Dockyard is required.

1.5.2.2 Modifications to the Contractor Car Pass Request form shall be submitted to the DND Project Manager at least twenty-four (24) hours in advance of the date for which access into HMC Dockyard is required.

1.5.2.3 Vendor may park only vehicles marked with company logos in parking stalls designated "Contractor" parking. Parking stalls will not be provided for private vehicles for Vendor employees. Issuance of a vehicle pass shall not be construed as a guarantee that a Contractor parking stall will be available to Vendor at any time.

1.5.2.4 A maximum of two (2) vehicle passes will be issued to Vendors and at no charge.

1.5.2.5 Vendor shall be responsible to make all arrangements, and pay all costs, for parking requirements beyond those identified herein.

1.5.3 Vendor shall complete a Contractor Employee Access List (CEAL) in order to allow their personnel access into the HMC Dockyard.

1.5.3.1 All Vendor personnel that will need to access HMC Dockyard shall be identified on the CEAL in order to be allowed into the HMC Dockyard.

1.5.3.2 Vendor shall submit completed CEAL to DND Project Manager at least five (5) business days in advance of the date for which access into HMC Dockyard is required.

1.5.3.3 Modifications of Contractor personnel listed on the CEAL shall be submitted to the DND Project Manager at least twenty-four (24) hours in advance of the date for which access into HMC Dockyard is required.

1.5.4 Vendor personnel will require a security escort while inside the secure Administrative Zone. DND will provide, at no cost to the Vendor, a security escort. Vendor shall provide at least five (5) days notice to the DND Project Manager in advance of the date for which access into the HMC Dockyard is required.

1.5.5 Vendor personnel shall present valid government photo identification at the entrance gate, for verification against the CEAL, to gain access to the HMC Dockyard and Administrative Zone. Vendor personal shall keep valid government photo identification on their person at all times when in the HMC Dockyard and Administrative Zone.

1.6 REFERENCE DOCUMENTS

1.6.1 PERMANENT INTERNATIONAL ASSOCIATION OF NAVIGATION CONGRESSES (PIANC)

1.6.1.1 Guidelines for the Design of Fender Systems: 2002

1.6.2 AMERICAN SOCIETY FOR TESTING AND MATERIALS

- 1.6.2.1 ASTM A123 /A123M– Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- 1.6.2.2 ASTM A153/A153M – Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- 1.6.2.3 ASTM D412 – Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
- 1.6.2.4 ASTM D470 – Standard Test Methods for Crosslinked Insulations and Jackets for Wire and Cable.
- 1.6.2.5 ASTM D624 – Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- 1.6.2.6 ASTM D1052 – Standard Test Method for Measuring Rubber Deterioration-Cut Growth Using Ross Flexing Apparatus.
- 1.6.2.7 ASTM D1630 – Standard Test Method for Rubber Property-Abrasion Resistance.
- 1.6.2.8 ASTM D1667 – Standard Specification for Flexible Cellular Materials - Poly (Vinyl Chloride) Foam (Closed-Cell).
- 1.6.2.9 ASTM D2240 – Standard Test Method for Rubber Property-Durometer Hardness.
- 1.6.2.10 ASTM D3575 – Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers.
- 1.6.2.11 ASTM F2192 – Standard Test Method for Determining and Reporting the Berthing Energy and Reaction of Marine Fenders.

1.6.3 INTERNATIONAL STANDARDS ORGANIZATION

- 1.6.3.1 ISO 34-1:2010 Rubber, Vulcanized or Thermoplastic - Determination of Tear Strength - Part 1: Trouser, Angle and Crescent Test Pieces
- 1.6.3.2 ISO 37:2011 Rubber, Vulcanized or Thermoplastic - Determination of Tensile Stress-Strain Properties
- 1.6.3.3 ISO 815-1:2008 Rubber, Vulcanized or Thermoplastic - Determination of Compression Set - Part 1: At Ambient or Elevated Temperatures

1.7 OPERATING ENVIRONMENT

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- 1.7.1 Fenders will be permanently located against poured concrete jetty (wharf) faces, in the splash zone, and may be partially submerged in seawater.
- 1.7.2 Components of the fender system could be subject to direct oil spray, liquids at temperatures exceeding +75 °C (167 °F), and ambient air temperatures between -20 to 30 °C (-4 to 86 °F).
- 1.7.3 Seawater may be contaminated by oil products and/or sewage.

PART 2 – PRODUCTS

Product must me the following minimum mandatory specifications.

2.1 DIMENSIONS

- 2.1.1 Diameter: 1700 to 2000mm (5'-6" to 6'-6")
- 2.1.2 Length (eye to eye): 3500 to 3700mm (11'-6" to 12')

2.2 COLOR

- 2.2.1 Fender skin color shall be light grey throughout the entire thickness.
- 2.2.2 Galvanized hardware shall be unpainted.

2.3 FOAM FILLED FENDERS

2.3.1 Configuration

- 2.3.1.1 Fenders shall have smooth skinned cylindrical mid-bodies with conical or hemispherical shaped ends terminating in an end fitting on the cylinder's centerline at each end. If conical ends are provided, they shall have an angle of 60 to 75 degrees, when measured from the central axis of the fender. The fittings at either end shall be connected through the center of the fender by a chain, shall terminate in a clevis fitting sized for the indicated shackle and shall swivel to allow the end fitting to rotate freely on the axis of the fender. End fitting shall be designed as small as possible to transmit the ultimate load of the shackle to the fender. End fitting shall be sized so as not to contact loading surfaces when the fender is compressed to 30 % of its original diameter (70 % compression). The interior of the fender shall be filled with energy absorbing closed-cell foam as specified. The use of chipped or particulate foam is not acceptable.

2.3.2 Foam Core

- 2.3.2.1 The energy absorbing foam core shall be a closed-cell cross-linked polyethylene foam with the following properties:
 - 2.3.2.1.1 Density, ASTM D1667, 52 to 104 kg/m³ (3.3 to 6.5 lbs/ft³).
 - 2.3.2.1.2 Tensile strength, ASTM D3575 or ASTM D412, 550 kPa (80 psi) minimum.
 - 2.3.2.1.3 Elongation (ultimate), ASTM D3575 or ASTM D412, 40 % minimum.
 - 2.3.2.1.4 Water absorption percent volume after 24 hour exposure, ASTM D1667, 5% maximum.
 - 2.3.2.1.5 Continuous service temperature, -54 to 49 °C (-65 to 120 °F).
 - 2.3.2.1.6 25 % compressive set, ASTM D1667, 8 % maximum; or
 - 2.3.2.1.7 50 % compressive set, ASTM D3575, 12 % maximum.

2.3.3 Fender Skin

- 2.3.3.1 The outer fender skin shall be minimum 25mm (1") thick and constructed of elastomer as specified. Filament reinforcing is required. Twelve separate filament reinforcing wraps shall be applied as specified. The filament wraps shall be evenly distributed in the inner 80 to 90 % of the coating thickness. The outer 10 to 20 % of elastomer shall have no filament reinforcing. The elastomer and filaments shall be applied in a continuous manner to assure adhesion between the various layers. The connection of the skin to the end fittings shall be designed and sized to transmit twice the safe tensile capacity of the chain into the fender skin.
- 2.3.3.2 Elastomer
- 2.3.3.2.1 The elastomer used in the fender skin shall be 100 % PTMEG (polytetramethyleneether glycol) polyether urethane elastomer, ultraviolet stabilized with 2.5 % carbon black or equivalent, with the following unreinforced properties:
- 2.3.3.2.1.1 Shore A hardness, ASTM D2240, 80 to 95.
- 2.3.3.2.1.2 Tensile strength, ASTM D412, 19.3 MPa (2800 psi) minimum.
- 2.3.3.2.1.3 Elongation (ultimate), ASTM D412, 300 % minimum.
- 2.3.3.2.1.4 Tear strength, ASTM D470, 1.25 kg/mm (70 lbs/inch) minimum.
- 2.3.3.2.1.5 Flex life (Ross), ASTM D1052, 200,000 cycles minimum.
- 2.3.3.2.1.6 Abrasion resistance (NBS), ASTM D1630, 100 minimum.
- 2.3.3.3 Filament Wrap
- 2.3.3.3.1 Construct each filament reinforcing wrap of continuous filaments applied in a helical pattern, at a helix angle of 45 to 60 degrees to the longitudinal axis of the buoy. A wrap shall consist of two such filament helixes of equal but opposing helix angles. The spacing between the filaments in the same helix shall be no more than 3mm ($\frac{1}{8}$ "), measured in a direction parallel to the longitudinal axis of the fender. Each wrap shall extend along the entire longitudinal axis of the fender and shall also encase the fender end fittings and secure them to the fender body. The reinforcing filaments shall be nylon tire cord of 0.00028 kg/m (2540 denier) weight with the following properties:
- 2.3.3.3.1.1 Breaking strength, 235 N (53 lbs)
- 2.3.3.3.1.2 Elongation (ultimate), 18 %
- 2.3.4 Internal Hardware
- 2.3.4.1 The internal chain connecting the two end fittings shall be galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M as appropriate. The chain and end clevis fitting shall have a minimum ultimate tensile capacity of 640,000 N (144,000 lbs).
- 2.3.4.2 The internal chain and end clevis fitting shall have a minimum ultimate tensile capacity of 578,000 N (130,000 lbs). Shackles shall be 32 mm (1- $\frac{1}{4}$ ") and shall have a minimum ultimate tensile capacity of 289,000 N (65,000 lbs).
- 2.3.5 Connecting Hardware
- 2.3.5.1 The swivel and shackles shall be galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M, as appropriate. The hardware shall be as follows:
- 2.3.5.1.1 Shackle: Type IVA, Class 3, Grade A, Size: 1-1/2" (38 mm)
- 2.3.5.1.2 Swivel: One piece component, integral with fender end fitting, capable of 360° rotation around the long axis of the fender. Size: 1-1/2" (38 mm)
- 2.3.5.2 All connecting bolts and pins shall be galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M, as appropriate, and shall be of mild steel, matching the properties of the shackle bow. For Class 3 shackles, the bolt or pins shall

be secured in place with stainless steel (Type 316) cotter pins. The leg of each cotter pin shall be bent back around the shaft of the bolt or pin it is installed through.

2.3.6 Performance Requirements

2.3.6.1 Energy absorption at 60% deflection: Minimum: 400 KN-m (300 ft-kips).

2.3.6.2 Reaction force at 60% deflection: Minimum 800 KN (180 kips), Maximum 955 KN (215 kips).

2.3.6.3 The resilient, foam filled marine fenders shall be designed so that when compressed across its diameter by two parallel flat plates extending the full length and width of the fender, the fender shall absorb 300,265 N-m (221,500 ft-lbs) of energy plus 15 % when 60 % compressed (i.e. to a dimension of 40 % of its original diameter) with a corresponding load of not more than 712,000 N (160,000 lbs) plus 15 %. The fender shall also be designed to withstand a sustained reaction force of 667,200 N (150,000 lbs) for a duration of not less than 24 hours each occurrence for at least 200 occurrences during its 10-year predicted life.

2.4 FENDER MARKINGS

2.4.1 Each fender shall be identified in readable characters 50mm (2") high directly on the surface of the fender skin.

2.4.2 Fender markings shall be permanently applied to the fender skin. Markings shall be visible, legible, indelible, wear and sunlight resistant.

2.4.3 Fender markings shall be placed around the cone of the fender and at both ends of the fender.

2.4.4 The fender markings shall be as follows:

2.4.4.1 Full or abbreviated manufacturer name;

2.4.4.2 Fender size, model, or part number designation;

2.4.4.3 Fender serial number;

2.4.4.4 Block lettering as follows: "PROPERTY OF QHM"; and

2.4.4.5 Numbering indicating year of purchase: "2019".

2.5 MANUFACTURER QUALIFICATIONS

2.5.1 Manufacturer shall have a minimum of twenty (20) years' experience in manufacture of foam filled marine fenders.

2.5.2 Manufacturer shall have experience of not less than twenty (20) completed projects where a marine fender of the type to be supplied has been installed for a minimum of five (5) years.

2.5.3 The manufacturing facility in which the marine fenders will be manufactured shall be ISO9001:2015 certified.

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- 2.5.4 Manufacturer shall hold a valid and current certification from one of the following for marine fenders of the type to be supplied:
- 2.5.4.1 ABS (American Bureau of Shipping) Confirmation of Product Type Approval; or
 - 2.5.4.2 DNV-GL (Det Norske Veritas - Germanischer Lloyd) Type Examination Certificate that fenders meet PIANC Guidelines for the Design of Fender Systems: 2002.

2.6 WARRANTY

- 2.6.1 Vendor shall provide a minimum of one (1) year manufacturer's warranty for the marine fenders supplied. Warranty shall include all labor and materials necessary to replace any faulty fenders under warranty at no extra cost to the Owner.
- 2.6.2 Warranty shall be issued directly to the Department of National Defence – CFB Halifax and shall not be limited in dollar value. The warranty period shall be valid for not less than one (1) year from the date of acceptance of the work. Warranty certificate shall be supplied to the DND Project Manager at time of delivery of fenders to site.

PART THREE – TECHNICAL PROPOSAL

- 3.1 Vendor shall submit the following in their Technical Proposal for each type of fender to be supplied:
- 3.1.1 Documentation demonstrating that the fender manufacturer meets the following:
 - 3.1.1.1 Twenty (20) years' experience in manufacture of foam filled marine fenders.
 - 3.1.1.2 Not less than twenty (20) completed projects where a marine fender of the type to be supplied has been installed for a minimum of five (5) years.
 - 3.1.1.3 ISO9001:2015 certification for the manufacturing facility where the marine fenders will be manufactured.
 - 3.1.2 Manufacturer shall **provide a copy** of a valid and current certification from one of the following for marine fenders of the type to be supplied:
 - 3.1.2.1 ABS (American Bureau of Shipping) Confirmation of Product Type Approval; or
 - 3.1.2.2 DNV-GL (Det Norske Veritas - Germanischer Lloyd) Type Examination Certificate that fenders meet PIANC Guidelines for the Design of Fender Systems: 2002.
 - 3.1.3 Shop drawings showing:
 - 3.1.3.1 Cross sections showing all details of fender construction;
 - 3.1.3.2 General dimensions of the overall fender and components;
 - 3.1.3.3 Material dimensions, descriptions, details, grades, colors, and finishes; and
 - 3.1.3.4 Mounting hardware dimensions, details, grades, colors, and finishes.
 - 3.1.4 Product data including copies of manufacturer's catalogue data sheets, product information sheets, material specifications, method of manufacture, and third party Certificates of Compliance certifying that materials used in the manufacturer of the fenders meet the specification requirements.

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- 3.1.5 Performance data including graphs with energy, reaction, and percent compression curves.
- 3.1.6 Manufacturer's installation, operation, and maintenance instructions.
- 3.1.7 Vendor shall cross reference each of the articles in PART 2 – PRODUCTS of this specification to the supporting documentation within their technical proposal which clearly demonstrates that the product submitted meets the specification.

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ANNEX B Basis of Payment

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, DDP Incoterms 2000, DND, HMC Dockyard, Halifax, NS. Canadian Customs Duties and Excise Taxes included.

	U of I	Qty	Unit Price	Extended Price
Marine Fenders, as fully detailed in Annex A	ea	8	\$	\$

Make/Model: _____

ANNEX C
Cross Reference Data

Bidders are requested to provide cross-reference below to identify the page(s) where each mandatory minimum specification can be demonstrated in their technical documentation provided with bid. For the few criteria which are not identified in specification sheets/literature/brochures, your firm's indication of "Compliant" will be considered as certification that the requirement is met. Canada reserves the right to verify any and all information relating to mandatory requirements.

Minimum Mandatory Specifications	Compliant Y/N	Cross Reference Page Number
<p>2.1 DIMENSIONS</p> <p>2.1.1 Diameter: 1700 to 2000mm (5'-6" to 6'-6")</p> <p>2.1.2 Length (eye to eye): 3500 to 3700mm (11'-6" to 12')</p>		
<p>2.2 COLOR</p> <p>2.2.1 Fender skin color shall be light grey throughout the entire thickness.</p> <p>2.2.2 Galvanized hardware shall be unpainted.</p>		
<p>2.3 FOAM FILLED FENDERS</p> <p>2.3.1 Configuration</p> <p>2.3.1.1 Fenders shall have smooth skinned cylindrical mid-bodies with conical or hemispherical shaped ends terminating in an end fitting on the cylinder's centerline at each end. If conical ends are provided, they shall have an angle of 60 to 75 degrees, when measured from the central axis of the fender. The fittings at either end shall be connected through the center of the fender by a chain, shall terminate in a clevis fitting sized for the indicated shackle and shall swivel to allow the end fitting to rotate freely on the axis of the fender. End fitting shall be designed as small as possible to transmit the ultimate load of the shackle to the fender. End fitting shall be sized so as not to contact loading surfaces when the fender is compressed to 30 % of its original diameter (70 % compression). The interior of the fender shall be filled with energy absorbing closed-cell foam as specified. The use of chipped or particulate foam is not acceptable.</p> <p>2.3.2 Foam Core</p> <p>2.3.2.1 The energy absorbing foam core shall be a closed-cell cross-linked polyethylene foam with the following properties:</p> <p>2.3.2.1.1 Density, ASTM D1667, 52 to 104 kg/m³ (3.3 to 6.5 lbs/ft³).</p> <p>2.3.2.1.2 Tensile strength, ASTM D3575 or ASTM D412, 550 kPa (80 psi) minimum.</p> <p>2.3.2.1.3 Elongation (ultimate), ASTM D3575 or ASTM D412, 40 % minimum.</p> <p>2.3.2.1.4 Water absorption percent volume after 24 hour exposure, ASTM D1667, 5% maximum.</p> <p>2.3.2.1.5 Continuous service temperature, -54 to 49 °C (-65 to 120 °F).</p> <p>2.3.2.1.6 25 % compressive set, ASTM D1667, 8 % maximum; or</p> <p>2.3.2.1.7 50 % compressive set, ASTM D3575, 12 % maximum.</p>		

2.3.3 Fender Skin

2.3.3.1 The outer fender skin shall be minimum 25mm (1") thick and constructed of elastomer as specified. Filament reinforcing is required. Twelve separate filament reinforcing wraps shall be applied as specified. The filament wraps shall be evenly distributed in the inner 80 to 90 % of the coating thickness. The outer 10 to 20 % of elastomer shall have no filament reinforcing. The elastomer and filaments shall be applied in a continuous manner to assure adhesion between the various layers. The connection of the skin to the end fittings shall be designed and sized to transmit twice the safe tensile capacity of the chain into the fender skin.

2.3.3.2 Elastomer

2.3.3.2.1 The elastomer used in the fender skin shall be 100 % PTMEG (polytetramethyleneether glycol) polyether urethane elastomer, ultraviolet stabilized with 2.5 % carbon black or equivalent, with the following unreinforced properties:

- 2.3.3.2.1.1 Shore A hardness, ASTM D2240, 80 to 95.
- 2.3.3.2.1.2 Tensile strength, ASTM D412, 19.3 MPa (2800 psi) minimum.
- 2.3.3.2.1.3 Elongation (ultimate), ASTM D412, 300 % minimum.
- 2.3.3.2.1.4 Tear strength, ASTM D470, 1.25 kg/mm (70 lbs/inch) minimum.
- 2.3.3.2.1.5 Flex life (Ross), ASTM D1052, 200,000 cycles minimum.
- 2.3.3.2.1.6 Abrasion resistance (NBS), ASTM D1630, 100 minimum.

2.3.3.3 Filament Wrap

2.3.3.3.1 Construct each filament reinforcing wrap of continuous filaments applied in a helical pattern, at a helix angle of 45 to 60 degrees to the longitudinal axis of the buoy. A wrap shall consist of two such filament helixes of equal but opposing helix angles. The spacing between the filaments in the same helix shall be no more than 3mm (1/8"), measured in a direction parallel to the longitudinal axis of the fender. Each wrap shall extend along the entire longitudinal axis of the fender and shall also encase the fender end fittings and secure them to the fender body. The reinforcing filaments shall be nylon tire cord of 0.00028 kg/m (2540 denier) weight with the following properties:

- 2.3.3.3.1.1 Breaking strength, 235 N (53 lbs)
- 2.3.3.3.1.2 Elongation (ultimate), 18 %

2.3.4 Internal Hardware

2.3.4.1 The internal chain connecting the two end fittings shall be galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M as appropriate. The chain and end clevis fitting shall have a minimum ultimate tensile capacity of 640,000 N (144,000 lbs).

2.3.4.2 The internal chain and end clevis fitting shall have a minimum ultimate tensile capacity of 578,000 N (130,000 lbs). Shackles shall be 32 mm (1-1/4") and shall have a minimum ultimate tensile capacity of 289,000 N (65,000 lbs).

2.3.5 Connecting Hardware

2.3.5.1 The swivel and shackles shall be galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M, as appropriate. The hardware shall be as follows:

<p>2.3.5.1.1 Shackle: Type IVA, Class 3, Grade A, Size: 1-1/2" (38 mm)</p> <p>2.3.5.1.2 Swivel: One piece component, integral with fender end fitting, capable of 360° rotation around the long axis of the fender. Size: 1-1/2" (38 mm)</p> <p>2.3.5.2 All connecting bolts and pins shall be galvanized in accordance with ASTM A123/A123M or ASTM A153/A153M, as appropriate, and shall be of mild steel, matching the properties of the shackle bow. For Class 3 shackles, the bolt or pins shall be secured in place with stainless steel (Type 316) cotter pins. The leg of each cotter pin shall be bent back around the shaft of the bolt or pin it is installed through.</p> <p>2.3.6 Performance Requirements</p> <p>2.3.6.1 Energy absorption at 60% deflection: Minimum: 400 KN-m (300 ft-kips).</p> <p>2.3.6.2 Reaction force at 60% deflection: Minimum 800 KN (180 kips), Maximum 955 KN (215 kips).</p> <p>2.3.6.3 The resilient, foam filled marine fenders shall be designed so that when compressed across its diameter by two parallel flat plates extending the full length and width of the fender, the fender shall absorb 300,265 N-m (221,500 ft-lbs) of energy plus 15 % when 60 % compressed (i.e. to a dimension of 40 % of its original diameter) with a corresponding load of not more than 712,000 N (160,000 lbs) plus 15 %. The fender shall also be designed to withstand a sustained reaction force of 667,200 N (150,000 lbs) for a duration of not less than 24 hours each occurrence for at least 200 occurrences during its 10-year predicted life.</p>		
<p>2.4 FENDER MARKINGS</p> <p>2.4.1 Each fender shall be identified in readable characters 50mm (2") high directly on the surface of the fender skin.</p> <p>2.4.2 Fender markings shall be permanently applied to the fender skin. Markings shall be visible, legible, indelible, wear and sunlight resistant.</p> <p>2.4.3 Fender markings shall be placed around the cone of the fender and at both ends of the fender.</p> <p>2.4.4 The fender markings shall be as follows:</p> <p>2.4.4.1 Full or abbreviated manufacturer name;</p> <p>2.4.4.2 Fender size, model, or part number designation;</p> <p>2.4.4.3 Fender serial number;</p> <p>2.4.4.4 Block lettering as follows: "PROPERTY OF QHM"; and</p> <p>2.4.4.5 Numbering indicating year of purchase: "2019".</p>		
<p>2.5 MANUFACTURER QUALIFICATIONS</p> <p>2.5.1 Manufacturer shall have a minimum of twenty (20) years' experience in manufacture of foam filled marine fenders.</p> <p>2.5.2 Manufacturer shall have experience of not less than twenty (20) completed projects where a marine fender of the type to be supplied has been installed for a</p>		

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<p>minimum of five (5) years.</p> <p>2.5.3 The manufacturing facility in which the marine fenders will be manufactured shall be ISO9001:2015 certified.</p> <p>2.5.4 Manufacturer shall hold a valid and current certification from one of the following for marine fenders of the type to be supplied:</p> <p>2.5.4.1 ABS (American Bureau of Shipping) Confirmation of Product Type Approval; or</p> <p>2.5.4.2 DNV-GL (Det Norske Veritas - Germanischer Lloyd) Type Examination Certificate that fenders meet PIANC Guidelines for the Design of Fender Systems: 2002.</p>		
<p>2.6 WARRANTY</p> <p>2.6.1 Vendor shall provide a minimum of one (1) year manufacturer's warranty for the marine fenders supplied. Warranty shall include all labor and materials necessary to replace any faulty fenders under warranty at no extra cost to the Owner.</p> <p>2.6.2 Warranty shall be issued directly to the Department of National Defence – CFB Halifax and shall not be limited in dollar value. The warranty period shall be valid for not less than one (1) year from the date of acceptance of the work. Warranty certificate shall be supplied to the DND Project Manager at time of delivery of fenders to site.</p>		

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ANNEX D

to PART 3 OF THE BID SOLICITATION ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)