

**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

Title - Sujet UV WATER STERILIZER	
Solicitation No. - N° de l'invitation F7044-150035/A	Date 2015-10-06
Client Reference No. - N° de référence du client F7044-150035	
GETS Reference No. - N° de référence de SEAG PW-\$\$ML-035-25395	
File No. - N° de dossier 035ml.F7044-150035	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-10-23	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
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: Tinkess, Dianne	Buyer Id - Id de l'acheteur 035ml
Telephone No. - N° de téléphone (819) 956-0178 ()	FAX No. - N° de FAX (819) 956-0897
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

Marine Machinery and Services / Machineries et services
maritimes
11 Laurier St. / 11, rue Laurier
6C2, 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

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PLEASE SEE ATTACHED

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement applicable to this Contract.

1.2 Requirement

The Canadian Coast Guard (CCG) has a requirement to purchase one (1) Ultra Violet (UV) Water Sterilizer for trial aboard a Hero Class Mid Shore Patrol Vessel in accordance with Annex "A" - Specifications. The UV sterilizer shall be operating in marine conditions which includes but is not limited to, vibration, vessel rolling, pounding and pitching and salt water environments is required.

This requirement includes an option to purchase an additional eight (8) units pending results of the trial. Canada may exercise the option by 31 March 2016.

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 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

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 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, 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 page 1 of the bid solicitation.

2.2.1 Delivery

While delivery is requested by one month after contact award, the best delivery that could be offered is _____.

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 **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

3.1 Bid Preparation Instructions

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

- Section I: Technical Bid (2 hard copies)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (1 hard copy)

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

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Bids shall follow all instructions, general terms, conditions and clauses identified herein by title, number and date. All references to descriptive material, technical manuals and brochures included as part of this Bid should be referenced accordingly.

The Technical Bid must include:

- (a) Completed Statement of Compliance Annex "C".

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Annex "D" Financial Bid Presentation Sheet. The total amount of Applicable Taxes must be shown separately.

As per Part 1, Section 1.2, Canada may exercise the option by 31 March 2016 to purchase an additional eight (8) units pending results of the trial.

As per Financial Bid Presentation Sheet of Annex "D", Bidders shall provide prices for the original order and for optional units. **All prices provided by the Bidders for the optional units shall be good for one (1) year following contract award.**

All quantities ordered by Canada shall be invoiced in accordance with the prices in the Basis of Payment of Annex "B".

3.1.1 Exchange Rate Fluctuation

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

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 Mandatory Technical Criteria

The Mandatory Deliverables required with any bid are described in the Annex "C" – Statement of Compliance

4.1.2 Financial Evaluation Criteria

Evaluation of Price - Bid

The price of the bid as described in Annex "D" – Financial Bid Presentation Sheet will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP destination incoterms 2000, Canadian customs duties and excise taxes included.

4.2 Basis of Selection

A bid must comply with all the requirements of the bid solicitation and meet all mandatory technical evaluation criteria of Annex "C", statement of compliance and all Financial 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. 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 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed Declaration Form, to be given further consideration in the procurement process.

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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 – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

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 (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from **Employment and Social Development Canada (ESDC) - Labour's website**.

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 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

The Canadian Coast Guard (CCG) has a requirement to purchase one (1) Ultra Violet (UV) Water Sterilizer for trial aboard a Hero Class Mid Shore Patrol Vessel in accordance with Annex "A" - Specifications. The UV sterilizer shall be operating in marine conditions which includes but is not limited to, vibration, vessel rolling, pounding and pitching and salt water environments is required.

This requirement includes an option to purchase an additional eight (8) units pending results of the trial. Canada may exercise the option by 31 March 2016.

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 (2015-09-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received by one month after contact award.

The contract will remain active until one (1) year following contract award or until Canada gives a written confirmation that the option will not be exercised.

6.4.2 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex "A" of the Contract 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 to purchase any or all of the eight (8) additional units by 31 March 2016.

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All prices provided by the Contractor for the optional units are valid for one (1) year following contract award.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Dianne Tinkess
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Marine Systems Directorate
Place du Portage, Phase III -6C2
11 Laurier St.
Gatineau, QC
K1A 0S5
Telephone: 819-956-0178
Facsimile: 819-956-0897
E-mail address: Dianne.Tinkess@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 Project Authority

The Project Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

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

6.5.3 Contractor's Representative

Name: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment - Firm Unit Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price in accordance with the Basis of Payment Annex "B". 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.

Optional Goods

Canada may decide to purchase the additional quantity of eight (8) units or a portion of that quantity by 31 March 2016. All quantities ordered by Canada shall be invoiced in accordance with the prices in Annex "B" – Basis of Payment.

6.6.3 Limitation of Price

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

6.6.4 Method of Payment

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

6.6.5 SACC Manual Clauses

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

6.7 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 submitted on the supplier's own invoice form and must be prepared to show:
 - (a) The date
 - (b) Name and address of the consignee
 - (c) Item number, quantity, part number, reference number and description
 - (d) Contract number.
3. Invoices must be distributed as follows:
 - (a) The original and one (1) copy of all invoices must be forwarded to the appropriate consignee.
 - (b) One (1) copy to:

David Wyse
200 Kent St – 7th Floor

Ottawa, ON
K1A 0E6

- (c) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
4. Payment will only be made on receipt of satisfactory invoices duly supported by specific release documents and/or other documents called for under this document. Invoices are not be submitted prior to shipment of materiel.
5. If payment is to be made to an address other than the address on the cover page of the contract, it is to be clearly identified within the body of the contract as the "Remit to" address. This address should include the following:

Company name
Full Address
City
Province/State
Postal/Zip Code

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional 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 additional 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.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (The contracting authority will insert the name of the province or territory as specified by the Bidder in its bid, if applicable)

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
(b) the general conditions 2010A (2015-09-03) General Conditions - Goods (Medium Complexity);
(c) Annex A Specification;
(d) Annex B Basis of Payment; and
(e) the Contractor's bid dated _____ (The contracting authority will insert the date of submission).

6.11 SACC Manual *Clauses*

D2025C (2013-11-06) Wood Packaging Materials

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6.12 Shipping Instructions - Delivery at Destination

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

- a. Free on Board (Destination) common carrier CCGS Constable Carriere, Burlington, ON for shipments from the United States government; or
- b. Delivered Duty Paid (DDP) CCGS Constable Carriere, Burlington, ON Incoterms 2000 for shipments from a commercial contractor.

The new Unit must be delivered to the CCGS Constable Carriere, Burlington, ON. The Contractor must liaise with CCGS to coordinate the reception, final inspection and unloading of the unit at time of delivery.

Before the shop acceptance of the unit, Canada may elect to have it delivered at a different address. Should it be the case, the Contractor will be informed in due course and the contract will be amended accordingly.

Delivery Address:

CCGS Constable Carriere
Canadian Coast Guard
867 Lakeshore Rd.
Burlington, ON
L7S1A1

Delivery Address for Optional Units:

2 units

Canadian Coast Guard
c/o Gabriel Chaikin
PO box 6000
9860 West Saanich Rd - IOS
Sidney, BC
V8L 4B2

2 units

Dan Chipman
Depot 05C
13 Akerley Boulevard
Door 1
Dartmouth, NS
B3B 1J6

1 unit

NGCC Caporal Kaeble V.C
Depot 18
Garde Côtière Canadienne
101 Boulevard Champlain
QUÉBEC, QC
G1K 7Y7

1 unit

NGCC A. Leblanc

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Depot 18
Garde Côtière Canadienne
101 Boulevard Champlain
QUÉBEC, QC
G1K 7Y7

1 unit
CCGS Corporal Teather
Canadian Coast Guard
867 Lakeshore Rd.
Burlington, ON
L7S 1A1

1 unit
CCGS Private Robertson V.C
Canadian Coast Guard
867 Lakeshore Rd.
Burlington, ON
L7S 1A1

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ANNEX "A"
SPECIFICATION
SEE ATTACHED

ANNEX "B"

BASIS OF PAYMENT

Annex "B" will form the Basis of Payment for the resulting Contract and must not be filled in at the bid submission stage.

The Contractor will be paid firm prices as follows, for work performed in accordance with the Contract. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax (GST/HST) is extra, if applicable.

	Quantity	Unit Price	Extended Price
UV Sterilizer as per Annex "A"	1	\$	\$
Total			\$

Option for Additional Quantities

	Quantity	Unit Price	Extended Price
Optional UV Sterilizers as per Annex "A" for Sidney BC	2	\$	\$
Optional UV Sterilizers as per Annex "A" for Dartmouth NS	2	\$	\$
Optional UV Sterilizer as per Annex "A" for NGCC Corporal Kaeble, Quebec QC	1	\$	\$
Optional UV Sterilizer as per Annex "A" for NGCC A. Leblanc, Quebec QC	1	\$	\$
Optional UV Sterilizer as per Annex "A" for CCGS Corporal Teather, Burlington ON	1	\$	\$
Optional UV Sterilizer as per Annex "A" for CCGS Private Robertson, Burlington ON	1	\$	\$
Total			\$

ANNEX "C"

STATEMENT OF COMPLIANCE

Item #	Criteria	Compliant		Reference to applicable page and paragraph of Proposal
		Yes	No	
2.1	<p>Piping</p> <p>The unit must be compatible with the existing 1 ¼ inch diameter piping. Piping reduction is acceptable permitted that the unit can maintain the proper UV intensity and does not affect flow or pressure of the system.</p>			
2.2	<p>Power</p> <p>The MSPVs use a 240VAC, 60Hz electrical system. The unit must be able to be hardwired into this electrical system</p>			
2.3	<p>Operations</p> <p>The freshwater system operates under the following conditions. The UV Unit must be able to deliver a UV dose to NSF 55, Class A standards in these conditions and below.</p> <p>Operating Pressure - 500 kPa Flow Rate - 2.4 m³/hr</p>			
3.1	<p>The UV sterilizer unit must conform to NSF 55, Class A standard and proof at bid is required</p>			
3.2	<p>NSF 55 requires the unit be fitted with a visual alarm, an audible alarm, or a system that terminates the discharge of water. For the CCG's purposes the unit must have, an alarm system (visual or audible system) only.</p>			
3.3	<p>The unit must be able to deliver a UV dose at the alarm set point that conforms to the testing procedures outlined in NSF 55 (equivalent to 40 mJ/cm³).</p>			
3.4	<p>In accordance with NSF 55, the unit must maintain structural integrity at 690 kPa.</p>			
4.1	<p>The unit's housing must be constructed using 316L Stainless Steel</p>			

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Buyer ID - Id de l'acheteur
035ml
CCC No./N° CCC - FMS No./N° VME

4.2	Additional features that secure the unit from the vibrations and impulses to be encountered aboard the vessels must be provided if available (if unavailable this paragraph 4.2 will be removed from the specification).			
4.3	The CCG is looking for units that are optimized for use in a marine environment thereby units must have double gland nuts and rigid supporting brackets			
4.4	The chamber size of the unit must not be more than 83cm due to the limited space available on the vessel.			
5.1	The unit and all associated parts including but not limited to the UV bulbs, quartz sleeves, sensors, and power units must be readily available to be shipped anywhere in Canada with minimal lead times.			
5.2	Parts will be ready to be shipped within 5 business days			

ANNEX "D"

FINANCIAL BID PRESENTATION SHEET

1. Bidder shall complete the following tables and indicate their firm prices for the Known Work.
2. All Prices must include the cost of delivery.

	Quantity	Unit Price	Extended Price
UV Sterilizer as per Annex "A"	1	\$	\$
Total			\$

Option for Additional Quantities

	Quantity	Unit Price	Extended Price
Optional UV Sterilizers as per Annex "A" for Sidney BC	2	\$	\$
Optional UV Sterilizers as per Annex "A" for Dartmouth NS	2	\$	\$
Optional UV Sterilizer as per Annex "A" for NGCC Corporal Kaeble, Quebec QC	1	\$	\$
Optional UV Sterilizer as per Annex "A" for NGCC A. Leblanc, Quebec QC	1	\$	\$
Optional UV Sterilizer as per Annex "A" for CCGS Corporal Teather, Burlington ON	1	\$	\$
Optional UV Sterilizer as per Annex "A" for CCGS Private Robertson, Burlington ON	1	\$	\$
Total			\$

Note: All provided prices / rates shall be before GST or HST as applicable.

Signed: _____ Date: _____

ANNEX “A”

Specifications for UV Sterilizers for the Hero Class Mid Shore Patrol Vessels

1. Requirement

The Canadian Coast Guard (CCG) has a requirement to purchase one (1) Ultra Violet (UV) Water Sterilizer to trial aboard a vessel with an option to purchase eight (8) additional units pending results of the trial. The unit will be trialed aboard one (1) of the Hero Class Mid Shore Patrol Vessels. The UV sterilizer shall be operating in marine conditions which includes but is not limited to, vibration, vessel rolling, pounding and pitching and salt water environments is required. The CCG will consider units that meet the requirements outlined below.

2. System Operations

The UV Sterilizer unit shall be integrated with the existing systems aboard the HERO Class vessels.

2.1 Piping

The unit shall be compatible with the existing 1 ¼ inch diameter piping. Piping reduction is acceptable permitted that the unit can maintain the proper UV intensity and does not affect flow or pressure of the system.

2.2 Power

The MSPVs use a 240VAC, 60Hz electrical system. The unit shall be able to be hardwired into this electrical system.

2.3 Operations

The freshwater system operates under the following conditions. The UV Unit shall be able to deliver a UV dose to NSF 55, Class A standards in these conditions and below.

Operating Pressure	500 kPa
Flow Rate	2.4 m ³ /hr

3. Standards

- 3.1 The UV sterilizer unit shall conform to NSF 55, Class A standard (proof at bid is required).
- 3.2 NSF 55 requires the unit be fitted with a visual alarm, an audible alarm, or a system that terminates the discharge of water. For the CCG’s purposes the unit shall have, an alarm system (visual or audible system) only.
- 3.3 The unit shall be able to deliver a UV dose at the alarm set point that conforms to the testing procedures outlined in NSF 55 (equivalent to 40 mJ/cm³).
- 3.4 In accordance with NSF 55, the unit shall maintain structural integrity at 690 kPa.

4. Construction

- 4.1 The HERO class vessels operate in corrosive, saltwater environments. The unit's housing shall be constructed using 316L Stainless Steel to protect from corrosion.
- 4.2 Additional features that secure the unit from the vibrations and impulses to be encountered aboard the vessels shall be provided if available (if unavailable this paragraph 4.2 will be removed from the specification).
- 4.3 The CCG is looking for units that are optimized for use in a marine environment thereby units shall have double gland nuts and rigid supporting brackets.
- 4.4 The chamber size of the unit shall not be more than 83cm due to the limited space available on the vessel.

5. Availability

- 5.1 The unit and all associated parts including but not limited to the UV bulbs, quartz sleeves, sensors, and power units shall be readily available to be shipped anywhere in Canada with minimal lead times.
- 5.2 Parts will be ready to be shipped within 5 business days.

REFERENCE DOCUMENTS

NO.	DOCUMENT TITLE	DOCUMENT NUMBER
1	GENERAL REQUIREMENTS FOR	APPENDIX A
2	PLUMBING AND MECHANICAL	APPENDIX B
3	PLUMBING AND MECHANICAL	APPENDIX C
4	PLUMBING AND MECHANICAL	APPENDIX D
5	PLUMBING AND MECHANICAL	APPENDIX E
6	PLUMBING AND MECHANICAL	APPENDIX F
7	PLUMBING AND MECHANICAL	APPENDIX G

PIPE DIMENSIONS

PIPE SIZE	FINISH	WALL THICKNESS	WALL WEIGHT
1/2"	1/16"	0.045"	0.10
3/4"	1/16"	0.045"	0.15
1"	1/8"	0.0625"	0.20
1 1/2"	3/16"	0.125"	0.35
2"	1/4"	0.1875"	0.50
2 1/2"	5/16"	0.25"	0.70
3"	3/8"	0.3125"	0.90
3 1/2"	7/16"	0.375"	1.10
4"	1/2"	0.4375"	1.30
4 1/2"	9/16"	0.50"	1.50
5"	5/8"	0.5625"	1.70
5 1/2"	11/16"	0.625"	1.90
6"	3/4"	0.6875"	2.10
6 1/2"	13/16"	0.75"	2.30
7"	7/8"	0.8125"	2.50
7 1/2"	15/16"	0.875"	2.70
8"	1"	0.9375"	2.90
8 1/2"	1 1/16"	1.00"	3.10
9"	1 1/8"	1.0625"	3.30
9 1/2"	1 1/4"	1.125"	3.50
10"	1 1/2"	1.1875"	3.70
10 1/2"	1 5/8"	1.25"	3.90
11"	1 3/4"	1.3125"	4.10
11 1/2"	1 7/8"	1.375"	4.30
12"	2"	1.4375"	4.50
12 1/2"	2 1/16"	1.50"	4.70
13"	2 1/8"	1.5625"	4.90
13 1/2"	2 3/16"	1.625"	5.10
14"	2 1/4"	1.6875"	5.30
14 1/2"	2 5/16"	1.75"	5.50
15"	2 3/8"	1.8125"	5.70
15 1/2"	2 7/16"	1.875"	5.90
16"	2 1/2"	1.9375"	6.10
16 1/2"	2 9/16"	2.00"	6.30
17"	2 5/8"	2.0625"	6.50
17 1/2"	2 3/4"	2.125"	6.70
18"	2 7/8"	2.1875"	6.90
18 1/2"	3"	2.25"	7.10
19"	3 1/16"	2.3125"	7.30
19 1/2"	3 1/8"	2.375"	7.50
20"	3 1/4"	2.4375"	7.70
20 1/2"	3 3/8"	2.50"	7.90
21"	3 1/2"	2.5625"	8.10
21 1/2"	3 5/8"	2.625"	8.30
22"	3 3/4"	2.6875"	8.50
22 1/2"	3 7/8"	2.75"	8.70
23"	4"	2.8125"	8.90
23 1/2"	4 1/16"	2.875"	9.10
24"	4 1/8"	2.9375"	9.30
24 1/2"	4 3/16"	3.00"	9.50
25"	4 1/4"	3.0625"	9.70
25 1/2"	4 5/16"	3.125"	9.90
26"	4 3/8"	3.1875"	10.10
26 1/2"	4 7/16"	3.25"	10.30
27"	4 1/2"	3.3125"	10.50
27 1/2"	4 9/16"	3.375"	10.70
28"	4 5/8"	3.4375"	10.90
28 1/2"	4 3/4"	3.50"	11.10
29"	4 7/8"	3.5625"	11.30
29 1/2"	5"	3.625"	11.50
30"	5 1/16"	3.6875"	11.70
30 1/2"	5 1/8"	3.75"	11.90
31"	5 1/4"	3.8125"	12.10
31 1/2"	5 3/16"	3.875"	12.30
32"	5 1/2"	3.9375"	12.50
32 1/2"	5 5/16"	4.00"	12.70
33"	5 3/8"	4.0625"	12.90
33 1/2"	5 7/16"	4.125"	13.10
34"	5 1/2"	4.1875"	13.30
34 1/2"	5 9/16"	4.25"	13.50
35"	5 5/8"	4.3125"	13.70
35 1/2"	5 3/4"	4.375"	13.90
36"	5 7/8"	4.4375"	14.10
36 1/2"	6"	4.50"	14.30
37"	6 1/16"	4.5625"	14.50
37 1/2"	6 1/8"	4.625"	14.70
38"	6 1/4"	4.6875"	14.90
38 1/2"	6 3/16"	4.75"	15.10
39"	6 1/2"	4.8125"	15.30
39 1/2"	6 5/16"	4.875"	15.50
40"	6 3/8"	4.9375"	15.70
40 1/2"	6 7/16"	5.00"	15.90
41"	6 1/2"	5.0625"	16.10
41 1/2"	6 9/16"	5.125"	16.30
42"	6 5/8"	5.1875"	16.50
42 1/2"	6 3/4"	5.25"	16.70
43"	6 7/8"	5.3125"	16.90
43 1/2"	7"	5.375"	17.10
44"	7 1/16"	5.4375"	17.30
44 1/2"	7 1/8"	5.50"	17.50
45"	7 1/4"	5.5625"	17.70
45 1/2"	7 3/16"	5.625"	17.90
46"	7 1/2"	5.6875"	18.10
46 1/2"	7 5/16"	5.75"	18.30
47"	7 3/8"	5.8125"	18.50
47 1/2"	7 7/16"	5.875"	18.70
48"	7 1/2"	5.9375"	18.90
48 1/2"	7 9/16"	6.00"	19.10
49"	7 5/8"	6.0625"	19.30
49 1/2"	7 3/4"	6.125"	19.50
50"	7 7/8"	6.1875"	19.70
50 1/2"	8"	6.25"	19.90
51"	8 1/16"	6.3125"	20.10
51 1/2"	8 1/8"	6.375"	20.30
52"	8 1/4"	6.4375"	20.50
52 1/2"	8 3/16"	6.50"	20.70
53"	8 1/2"	6.5625"	20.90
53 1/2"	8 5/16"	6.625"	21.10
54"	8 3/8"	6.6875"	21.30
54 1/2"	8 7/16"	6.75"	21.50
55"	8 1/2"	6.8125"	21.70
55 1/2"	8 9/16"	6.875"	21.90
56"	8 5/8"	6.9375"	22.10
56 1/2"	8 3/4"	7.00"	22.30
57"	8 7/8"	7.0625"	22.50
57 1/2"	9"	7.125"	22.70
58"	9 1/16"	7.1875"	22.90
58 1/2"	9 1/8"	7.25"	23.10
59"	9 1/4"	7.3125"	23.30
59 1/2"	9 3/16"	7.375"	23.50
60"	9 1/2"	7.4375"	23.70
60 1/2"	9 5/16"	7.50"	23.90
61"	9 3/8"	7.5625"	24.10
61 1/2"	9 7/16"	7.625"	24.30
62"	9 1/2"	7.6875"	24.50
62 1/2"	9 9/16"	7.75"	24.70
63"	9 5/8"	7.8125"	24.90
63 1/2"	9 3/4"	7.875"	25.10
64"	9 7/8"	7.9375"	25.30
64 1/2"	10"	8.00"	25.50
65"	10 1/16"	8.0625"	25.70
65 1/2"	10 1/8"	8.125"	25.90
66"	10 1/4"	8.1875"	26.10
66 1/2"	10 3/16"	8.25"	26.30
67"	10 1/2"	8.3125"	26.50
67 1/2"	10 5/16"	8.375"	26.70
68"	10 3/8"	8.4375"	26.90
68 1/2"	10 7/16"	8.50"	27.10
69"	10 1/2"	8.5625"	27.30
69 1/2"	10 9/16"	8.625"	27.50
70"	10 5/8"	8.6875"	27.70
70 1/2"	10 3/4"	8.75"	27.90
71"	10 7/8"	8.8125"	28.10
71 1/2"	11"	8.875"	28.30
72"	11 1/16"	8.9375"	28.50
72 1/2"	11 1/8"	9.00"	28.70
73"	11 1/4"	9.0625"	28.90
73 1/2"	11 3/16"	9.125"	29.10
74"	11 1/2"	9.1875"	29.30
74 1/2"	11 5/16"	9.25"	29.50
75"	11 3/8"	9.3125"	29.70
75 1/2"	11 7/16"	9.375"	29.90
76"	11 1/2"	9.4375"	30.10
76 1/2"	11 9/16"	9.50"	30.30
77"	11 5/8"	9.5625"	30.50
77 1/2"	11 3/4"	9.625"	30.70
78"	11 7/8"	9.6875"	30.90
78 1/2"	12"	9.75"	31.10
79"	12 1/16"	9.8125"	31.30
79 1/2"	12 1/8"	9.875"	31.50
80"	12 1/4"	9.9375"	31.70
80 1/2"	12 3/16"	10.00"	31.90
81"	12 1/2"	10.0625"	32.10
81 1/2"	12 5/16"	10.125"	32.30
82"	12 3/8"	10.1875"	32.50
82 1/2"	12 7/16"	10.25"	32.70
83"	12 1/2"	10.3125"	32.90
83 1/2"	12 9/16"	10.375"	33.10
84"	12 5/8"	10.4375"	33.30
84 1/2"	12 3/4"	10.50"	33.50
85"	12 7/8"	10.5625"	33.70
85 1/2"	13"	10.625"	33.90
86"	13 1/16"	10.6875"	34.10
86 1/2"	13 1/8"	10.75"	34.30
87"	13 1/4"	10.8125"	34.50
87 1/2"	13 3/16"	10.875"	34.70
88"	13 1/2"	10.9375"	34.90
88 1/2"	13 5/16"	11.00"	35.10
89"	13 3/8"	11.0625"	35.30
89 1/2"	13 7/16"	11.125"	35.50
90"	13 1/2"	11.1875"	35.70
90 1/2"	13 9/16"	11.25"	35.90
91"	13 5/8"	11.3125"	36.10
91 1/2"	13 3/4"	11.375"	36.30
92"	13 7/8"	11.4375"	36.50
92 1/2"	14"	11.50"	36.70
93"	14 1/16"	11.5625"	36.90
93 1/2"	14 1/8"	11.625"	37.10
94"	14 1/4"	11.6875"	37.30
94 1/2"	14 3/16"	11.75"	37.50
95"	14 1/2"	11.8125"	37.70
95 1/2"	14 5/16"	11.875"	37.90
96"	14 3/8"	11.9375"	38.10
96 1/2"	14 7/16"	12.00"	38.30
97"	14 1/2"	12.0625"	38.50
97 1/2"	14 9/16"	12.125"	38.70
98"	14 5/8"	12.1875"	38.90
98 1/2"	14 3/4"	12.25"	39.10
99"	14 7/8"	12.3125"	39.30
99 1/2"	15"	12.375"	39.50
100"	15 1/16"	12.4375"	39.70
100 1/2"	15 1/8"	12.50"	39.90
101"	15 1/4"	12.5625"	40.10
101 1/2"	15 3/16"	12.625"	40.30
102"	15 1/2"	12.6875"	40.50
102 1/2"	15 5/16"	12.75"	40.70
103"	15 3/8"	12.8125"	40.90
103 1/2"	15 7/16"	12.875"	41.10
104"	15 1/2"	12.9375"	41.30
104 1/2"	15 9/16"	13.00"	41.50
105"	15 5/8"	13.0625"	41.70
105 1/2"	15 3/4"	13.125"	41.90
106"	15 7/8"	13.1875"	42.10
106 1/2"	16"	13.25"	42.30
107"	16 1/16"	13.3125"	42.50
107 1/2"	16 1/8"	13.375"	42.70
108"	16 1/4"	13.4375"	42.90
108 1/2"	16 3/16"	13.50"	43.10
109"	16 1/2"	13.5625"	43.30
109 1/2"	16 5/16"	13.625"	43.50
110"	16 3/8"	13.6875"	43.70
110 1/2"	16 7/16"	13.75"	43.90
111"	16 1/2"	13.8125"	44.10
111 1/2"	16 9/16"	13.875"	44.30
112"	16 5/8"	13.9375"	44.50
112 1/2"	16 3/4"	14.00"	44.70
113"	16 7/8"	14.0625"	44.90
113 1/2"	17"	14.125"	45.10
114"	17 1/16"	14.1875"	45.30
114 1/2"	17 1/8"	14.25"	45.50
115"	17 1/4"	14.3125"	45.70
115 1/2"	17 3/16"	14.375"	45.90
116"	17 1/2"	14.4375"	46.10
116 1/2"	17 5/16"	14.50"	46