



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada

See herein for bid submission
instructions/

Voir la présente pour les
instructions sur la présentation
d'une soumission

NA

British Columbia

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

Public Works and Government Services Canada - Pacific
Region
401 - 1230 Government Street
Victoria, B. C.
V8W 3X4

Title - Sujet CCGS Gordon Reid - Sewage Plant	
Solicitation No. - N° de l'invitation F1782-21C001/A	Date 2020-10-22
Client Reference No. - N° de référence du client F1782-21C001	
GETS Reference No. - N° de référence de SEAG PW-\$XLV-166-8075	
File No. - N° de dossier XLV-0-43096 (166)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-11-16	Time Zone Fuseau horaire Pacific Standard Time PST
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: Castle, David G.	Buyer Id - Id de l'acheteur xlv166
Telephone No. - N° de téléphone (250) 217-6555 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Fisheries and Oceans Canada See herein	

Instructions: See Herein

Instructions: Voir aux présentes

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

The requirement is detailed in Annex A - Requirement

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 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) (<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, 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:

PWGSC Pacific Region 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.RPReceptiondessoumissions-PRBidReceiving.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 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 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the 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 British Columbia.

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

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

Bids transmitted by facsimile or hardcopy will not be accepted.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements in accordance with Annex C – Technical Evaluation.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with Annex D – Financial Evaluation.

3.1.1 Electronic Payment of Invoices – Bid

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

If Annex "E" 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.

3.1.2 Exchange Rate Fluctuation

C3010T (2014-11-27), Exchange Rate Fluctuation Risk Mitigation

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.2 Technical Evaluation

The Technical Bid Evaluation Plan, mandatory technical evaluation criteria are included in Annex D – Technical Evaluation Criteria.

4.1.2.1 (2017-07-31) Mandatory Technical Criteria

All mandatory technical criteria as indicated in Annex D – Technical Evaluation Criteria must be completed. Non-responsive bids will not be given any further consideration.

4.1.3 Financial Evaluation

The Financial Bid Evaluation are included in Annex C – Financial Evaluation Criteria.

4.1.4 Evaluation of Price - Canadian / Foreign Bidders

1. The price of the bid will be evaluated as follows:
 - a. Canadian-based bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded.
 - b. Foreign-based bidders must submit firm prices, Canadian customs duties, excise taxes and Applicable Taxes excluded. Canadian customs duties and excise taxes payable by Canada will be added, for evaluation purposes only, to the prices submitted by foreign-based bidders.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

3. For the purpose of the bid solicitation, bidders with an address in Canada are considered Canadian-based bidders and bidders with an address outside of Canada are considered foreign-based bidders.

4.1.5 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form [PWGSC-TPSGC 450](#), Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form [PWGSC-TPSGC 450](#), for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Requirement

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation;
 - b. meet all mandatory technical evaluation criteria;
2. Bids not meeting (a) or (b) will be declared non-responsive.

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) (<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.

Bidders should submit a completed form as found in Annex G

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](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" 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](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3 Term of Contract

6.3.1 Period of the Contract

The period of the Contract is from date of Contract to January 1, 2022 inclusive

6.3.2 Delivery Date

Delivery is on or before December 31, 2021.

6.3.3 Delivery Points

The goods must be delivered in accordance with Incoterms 2010 Delivery Duty Paid (DDP) to the following location:

CCGS Gordon Reid
C/O: CCG Marine Engineering
9860 West Saanich Road, Sidney BC
V8L 4B2.

6.4 Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Dave Castle
Public Works and Government Services Canada
Pacific Region, Acquisitions - Marine
401 - 1230 Government Street
Victoria, BC V8W 3X4
Telephone: 250-217-6555

E-mail: David.Castle@pwgsc-tpsgc.gc.ca

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

6.4.2 Technical Authority

The Technical Authority for the Contract is:

Name: TBD
 Title: TBD
 Organization: TBD
 Address: TBD
 Telephone: TBD
 Facsimile: TBD
 E-mail: TBD

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

6.4.3 Contractor's Representative

Contact for:	Name	Telephone	E-mail
Contracting Issues			
Technical Issues			
Invoicing Issues			

6.5 Payment

6.5.1 Basis of Payment – Multiple Payments

Canada will pay the Contractor upon completion and delivery of units in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work delivered has been accepted by Canada.

6.5.2 Electronic Payment of Invoices – Contract

Bidder requested to fill out Annex F and submit with their bid.

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

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);
- c. Wire Transfer (International Only);

6.6 Invoicing Instructions

The Contractor must submit invoices in accordance with the section of the General Conditions titled Invoice Submission.

Invoice is to be made out to:

Institute of Ocean Sciences- Pat Bay
Marine Engineering; Attention: [REDACTED]
9860 West Saanich Road
Sidney, British Columbia, Canada
V8L4B2
Attn:TBD

Electronic copy of the invoice is to be sent for verification to:

PAC.MARINE@pwgsc-tpsgc.gc.ca Attention: Dave Castle

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.

N° de l'invitation - Solicitation No.
F1782-20C001/A
N° de réf. du client - Client Ref. No.
F1782-20C001

N° de la modif - Amd. No.
File No. - N° du dossier

Id de l'acheteur - Buyer ID
xlvl66
N° CCC / CCC No./ N° VME - FMS

6.8 Applicable Laws

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

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 Agreement;
- (b) the general conditions _____ (*insert number, date and title*);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid is 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)*)

ANNEX A - REQUIREMENT

1. GENERAL

1.1. REQUIREMENT

- 1.1.1. To supply and deliver one Sewage Treatment Plant (STP) to supply vacuum for and to process all black and grey water for a crew of 22-26 people.
- 1.1.2. To supply and deliver instructions for installation and integration with ship's existing black water piping to first stage, new grey water inlet to first stage.
- 1.1.3. The Contractor must provide design information, certification and related documentation as detailed herein.
- 1.1.4. The Contractor must deliver of the completed Sewage Treatment Plant (STP) to the Canadian Coast Guard at 21 Hurdon St, Victoria BC V8V 4V9.

1.2. INSTALLATION

- 1.2.1. The Sewage Treatment Plant will be installed at a selected ship repair facility, supplier will not be responsible for installation but will be contracted at a later date for commissioning during the vessels alongside refit period at the selected shipyard.
- 1.2.2. The installation specification reference number is: F1782-21C001.
- ~~1.2.3. removed~~
- 1.2.4. Treatment Plant is to be installed in the existing compartment aboard the vessel. Reference drawings will be provided with compartment dimensions, and restrictions as part of the package.
- 1.2.5. The Sewage Treatment Plant will use existing ships system piping for black water supply to the plant and treated sewage discharge overboard. Grey water piping will be the responsibility of the selected shipyard.

1.3. SCHEDULE

- 1.3.1. The sewage treatment plant and all components must be delivered in accordance with the schedule in the contract.

1.4. CLASS CERTIFICATION

- 1.4.1. The sewage treatment plant must be classed approved by a recognized IACS member for use in a marine application, and must be supplied with a Type Examination Certificate provided by the Class Society.
- 1.4.2. The Contractor is responsible for all fees applicable to Class Certification.

1.5. REGULATORY COMPLIANCE

- 1.5.1. The Sewage Treatment Plant and all associated equipment must meet Transport Canada approval for marine Sanitation devices as per Vessel Pollution and Dangerous Chemicals Regulations (SOR/2012-69).

1.5.2. The Sewage Treatment Plant must produce an acceptable effluent discharge that meets the effluent quality standards set out by IMO Resolution MPEC 227(64) with the exemption of section 4.2.

1.5.3. The American Bureau of Shipping (ABS) have been selected under the Delegated Statutory Inspection Program (DSIP) to inspect the CCGS Gordon Reid on behalf of Transport Canada Marine Safety and Security (TCMSS).

1.6. INSPECTION BY CANADA

1.6.1. The Contractor must supply preliminary information for the installation including dimensional information, and fitting. This information should be provided within 4 weeks of Contract Award.

1.7. CORRESPONDENCE

1.7.1. Copies of any and all correspondence between the Contractor and ABS or any TCM approved RO applicable to regulatory compliance of the Work, should be provided to the TA within 7 days of its creation or receipt. Any DSIP related correspondence must pass through the TA.

1.7.2. Copies of any and all completed test and trial reports must be provided to the TA within 7 days of its creation or receipt.

1.8. INTERPRETATION

1.8.1. The words "must" or "shall" or "required" or "mandatory", wherever they appear in this Statement of Requirements (SOR) or referenced regulations, specifications standards or codes are to be interpreted as obligations on the Contractor in the performance of the Work within the Contract Price.

1.8.2. In the event that there is a discrepancy in requirement between this SOR and other referenced regulations, rules, standards or codes, then the latter will take precedence.

1.8.3. References given in rectangular brackets such as [7.3.2] refer to section, subsection and paragraph numbers within this SOR.

1.9. SHIP'S PARTICULARS

LENGTH OVERALL	49.95 m
LENGTH BETWEEN PERPENDICULARS	46 m
BREADTH (moulded)	11 m
DRAFT	6.135 m
DISPLACEMENT (maximum)	863.32 t
FRAME SPACING	550 mm

1.10. ABBREVIATIONS & DEFINITIONS

IACS	International Association of Classification Societies
Inspector	Inspection Authority or Inspector (as defined by the Contract)
RF	Repair Facility
RO	Recognized Organization - IACS member recognized by TCMSS
Rules	Classification Rules, Standards and Codes of one of the IACS members
TA	Technical Authority (as defined by the Contract)
TCMSS	Transport Canada Marine Safety and Security

SOR
STP
Work

Statement of Requirements
Sewage Treatment Plant
As defined in the Contract

1.11. IACS MEMBERS RECOGNIZED BY TRANSPORT CANADA

1.11.1. The IACS members which are recognized by Transport Canada Marine Safety and Security are as follows:

- 1.11.1.1. American Bureau of Shipping;
- 1.11.1.2. Bureau Veritas;
- 1.11.1.3. Class NK;
- 1.11.1.4. DNV GL;
- 1.11.1.5. Korean registry;
- 1.11.1.6. Lloyd's Register; or,
- 1.11.1.7. RINA Services, SpA.

1.12. REFERENCES

No.	TITLE	Cross Reference
1	Canada Shipping Act (2001)	2001, c.26
2	Sewage Treatment Plant and all associated equipment must comply with the Vessel Pollution and Dangerous Chemicals Regulations	SOR/2012-69
3	Annex IV of MARPOL 73/78 – Regulations for the Prevention of Pollution by Sewage from Ships	
4	IMO Resolution MEPC 227(64) with the exception of section 4.2	
5	Revisions to MARPOL by the Marine Environment Protection Committee (MEPC) of the International Maritime Organization (IMO)	MEPC.200(62)
6	Gordon Reid General Re-Arrangement Guidance Plan	(to supply most recent)

2. TECHNICAL REQUIREMENTS

2.1. GENERAL DESCRIPTION

- 2.1.1. The Sewage Treatment Plant (STP) must be designed for a normal operating use of 22 persons with a minimum certification for peak loading of 26 persons.
- 2.1.2. The STP must be capable of handling black water from vessel's 12 toilets via the ship's existing vacuum tank system into the first stage. The Vacuum will be broken before effluent arrives at the treatment unit. The unit must also have an inlet for grey water. Canada prefers separate inlets fitted to the unit for these feeds.

-
- 2.1.3. The STP must have bolt on covers at each stage to allow for the ship's crew to manually access the internals of the unit for cleaning and maintenance.
- 2.1.4. The STP must be capable of handling a minimum of 3100L/day Hydraulic Load.
- 2.1.5. The STP footprint must not exceed 1750mm length X 1410mm width.
- 2.1.6. The STP total combined footprint and maintenance envelope must not exceed 2550mm length X 2400mm width, and 1600mm height. The overall dimensions include the effluent discharge pumps, sludge pumps, sterilization unit and air supply. It will include the control panel if it is required to be mounted to the unit.
- 2.1.7. The STP must be capable of operation when installed with the major axis oriented longitudinally.
- ~~2.1.8. Not used.~~
- 2.1.9. The STP must be fully automated and be able to run continuously.
- 2.1.10. The STP must have an approved final sterilization process to treat the effluent. If the unit uses chlorine as a disinfectant, the unit must not produce an effluent containing residual chlorine greater than 0.5mg/L.
- 2.1.11. The STP must include 1 duty and 1 standby discharge pump suitable for pumping sewage. The discharge pump must be capable of operating in auto or manual mode. When the pump is in auto mode, all pump functions must be controlled, and the controls must prevent the pump from dry running.
- 2.1.11.1. Unit must be fitted with all piping and valves required for operation up to the discharge isolation valve to the ship's system.
- 2.1.12. The discharge pump must be capable of discharging 10 cubic meters per hour at 8 meters head pressure.
- 2.1.13. The STP must be capable of discharging sludge to a ships holding tank. The piping from the unit to the sludge tank will be installed by installation contractor when the STP is installed on the vessel. Canada prefers that sludge discharge be done with the units existing discharge pumps.
- 2.1.14. The STP must have its own aeration supply system with a minimum of one in line and one spare unit. Canada prefers to have a fitted duty and standby air supply unit. Aeration blowers must be fitted with isolation valves on discharge.
- 2.1.15. The Contractor must provide 1 spare aeration unit in addition the units listed in 2.1.14 in the deliverables. Aeration units provided must be capable of 15 cubic meters per hour at 0.5 Bar.
- 2.1.16. The STP must be complete with all valves required for operation and isolation from the vacuum piping inlet up to and including the discharge pumps
- 2.1.17. All components and valves must be marked with permanent markings referencing their schematic location and operational description in English.
- 2.1.18. The STP must have a means of venting that will be piped to the exterior of the vessel on installation by the installation contractor. Canada prefers all vents combined in to one.

2.1.19. The STP must include a fully enclosed control panel, complete with all controls required for fully automated and manual control of all functions required for the system to operate.

2.1.20. The control panel must:

- 2.1.20.1. Have an Ingress Protection (IP) Rating of no less than 54, or equivalent.
- 2.1.20.2. Have separate visual indication for, at minimum: Power Available, Blower Running, Pump Running, High Level, Overflow, and a common alarm for other alarms,
- 2.1.20.3. Have as a minimum a Voltage free contact for remote indication of an alarm state. Canada prefers control panels that have multiple (More than 2) programmable voltage free contacts, or multiple pre-programed voltage free contacts for remote indication of system operation including an alarm state. Automatic start / hand start / off switches for all pumps and blowers.
- 2.1.20.4. Have anti-vibration mounts,
- 2.1.20.5. Interface with the effluent quality monitor, as described in Section[2.1.21.]
- 2.1.20.6. Canada prefers the control panel be capable of being remote mounted but will accept flexible mounting location on the unit and fixed location on the unit.

2.1.21. The STP must be fitted with an effluent quality monitor. The monitor must be provided with a Calibration Certificate which will be valid for a minimum of six months from delivery. The monitor must be fed power from the control panel and must alarm when it is in Fault Condition.

2.1.22. The STP must be able to run on the ships 600 volt 60hz 3phase AC power.

2.1.23. If training is recommended by the Contractor, the Contractor must provide information on training including curriculum, duration, and recommended delivery location.

2.1.24. The Contractor must include all spares necessary to perform the OEM recommended routine maintenance for one year. The contractor must provide pricing for all spares necessary to perform the OEM recommended routine maintenance for the first five years.

2.2. CONSTRAINTS

2.2.1. The STP must be of the Biological type and must not use membranes or microfilters in the sewage treatment process.

2.3. PAINTING & CORROSION PROTECTION

2.3.1. The STP must be of all welded construction with the exception of any bolt on access hatches and all components are to be painted with marine epoxy paint systems. Connections to aeration / settling / contact tank must be socket weld flanges. The interior of the contact tank must be coated with a corrosion resistant system with a minimum of 300 micron TDFT to protect the stainless steel from chemical reaction.

2.3.2. The following components must be constructed of 316L stainless steel.

- a) Tank construction
- b) Discharge pump suction manifold and discharge spool

c) Aeration / settling / contact tank isolation valves

2.3.3. The exterior of all ancillary equipment are to be coated with marine grade enamel with a minimum of 150 TDFT.

2.4. SPECIAL PURPOSE TOOLS

2.4.1. The Contractor must identify any special purpose tools, not generally commercially available, which are required either for assembly, routine inspection or maintenance of the STP. The Contractor must supply all such tools with the STP.

3. SHIPPING & DELIVERY

3.1.1. In addition to the general requirements for shipping and delivery which are stated in the Contract, the Contractor must ensure that all components which may be subject to wear or damage through shipping are properly preserved, packaged and protected. Any damage or wear sustained through shipping must be corrected by the Contractor prior to assembly or installation on board the vessel.

4. TESTS & TRIALS

4.1. GENERAL

4.1.1. The Contractor must conduct their own inspections, tests and trials to verify successful completion of the Work in accordance with this SOR. All discrepancies identified through the inspection, test and trials processes must be corrected prior to delivery and acceptance.

4.1.2. The Contractor must prepare and submit Tests & Trials Plans, including a description of all tests and trials to be performed.

4.1.3. The Tests & Trials Plans must separately identify each test or trial to be performed, either by location or phase of construction, for example:

- 4.1.3.1. Production Tests & Trials;
- 4.1.3.2. Factory Acceptance Trials;
- 4.1.3.3. Site Assembly Instructions;
- 4.1.3.4. Site Acceptance Tests & Trials; and,

4.1.4. All tests & trials conducted prior to delivery must be recorded, whether successful or if partially or completely failed. Copies of all test records must be forwarded to the Inspector within 7 days of said test or trial.

4.1.5. The Contractor must provide Canada with advanced notification of all Factory Acceptance Trials. A minimum of 3 months advanced notice is required if the trial is to take place outside of Canada. A minimum of 1 month notice is required if the trials are to take place in Canada.

4.2. INSTALLATION AND SET-TO-WORK INSTRUCTIONS

4.2.1. The Site Assembly Instructions must be sufficiently detailed to assure correct and efficient assembly by the selected shipyard. These instructions must include procedures for the shipyard to correctly uncrate, install and assemble the STP.

4.2.2. Contractor must supply information required for Coast Guard to develop an installation statement of work. Information which may be requested is as follows:

- 4.2.2.1. The Contractor must provide a detailed installation plan which includes shipping into space, and connections for electrical, ventilation, discharge for treated sewage, and inlet to first stage from: vacuum system and grey water system.
- 4.2.2.2. Upon award, the Contractor must engage in consultations with Canada to determine how much the unit can be broken down for fitting in the vessel in order to determine preferred installation route.
- 4.2.2.3. The Set-to-Work Procedures must be sufficiently detailed such that mechanical, electrical, and piping components will be correctly connected, terminated and prepared for operation by the shipyard.
- 4.2.2.4. Where any system tests are required to verify electrical continuity, pipe connections, rigging assembly or otherwise, detailed procedures must be provided. These procedures must identify all of the conditions to be satisfied, precautions to be taken, measurements to be recorded and the expected results and tolerances. A list of the required test equipment, any special tools and possible equipment adjustments must be included.

4.3. SITE ACCEPTANCE TESTS & TRIALS

- 4.3.1. The Contractor must provide a Site Acceptance Tests & Trials (SAT) Plan.
- 4.3.2. The SAT Plan must include all tests and trials which must be performed in order to satisfy this SOR and in order to support certification by the selected IACS body and TCMSS. The SAT must identify all conditions, precautions, adjustments, expected test results, tolerances, and test equipment required to verify the correct operation of the equipment, including all of its associated systems, and must demonstrate the full range of operations and all capabilities in accordance with this SOR.
- 4.3.3. The SAT Plan must be accepted by the the attending IACS Surveyor, the ABS Surveyor on behalf of TCMSS and the Inspector.
- 4.3.4. The SAT plan may be reviewed by ABS and/or additional Classification Inspectors. Contractor must address any deficiencies raised by Class in regards to the SAT plan.

4.4. FINAL INSPECTION & ACCEPTANCE

- 4.4.1. The Technical Authority, or a representative of the Technical Authority, will conduct the final inspection and will advise the Contracting Authority when the Work is ready for Acceptance as per the Contract.

5. FIELD SERVICE REPRESENTATIVE

5.1. SEPARATE CONTRACT

- 5.1.1. The shipyard / repair facility will be separately responsible to engage a Field Service Representative, if required.

6. DELIVERABLES

- 6.1.1. One complete sewage system, as described in Sections [2.1 to 2.3]
- 6.1.2. Effluent measuring equipment calibration certificate valid for 6 months from delivery of the unit
- 6.1.3. The originals (one paper copy in English only) of the following certificates must be provided to the TA upon completion of the Work before the unit will be accepted by Canada:
 - 6.1.3.1. Classification Society Approval Certificate of Marine Sanitation Device
 - 6.1.3.2. Factory Acceptance Test Certificate
- 6.1.4. All Special Purpose Tools required to maintain the unit, as described in Section [2.4]

6.2. DESIGN & PRODUCTION DOCUMENTS

- 6.2.1. The Contractor must supply preliminary information for the installation including dimensional information and fittings. This information should be provided within 4 weeks of Contract Award. The information must be in .pdf format and must be submitted to the Technical Authority via email.
- 6.2.2. The Contractor must supply a detailed installation plan and instructions to the TA and the Shipyard as detailed in Section [4.2.1-4.2.2.] within 8 weeks of Contract Award.

6.3. FINAL DELIVERABLE DOCUMENTATION

- 6.3.1. The contractor must supply a final information package to be delivered with the sewage unit:
 - 6.3.1.1. Set-to-work instructions,
 - 6.3.1.2. An Operator and Maintenance Manual (one electronic copy in English and French, 2 paper copies in English) which must include:
 - 6.3.1.2.1. Operating instructions,
 - 6.3.1.2.2. Maintenance Instructions,
 - 6.3.1.2.3. Fault Finding instructions,
 - 6.3.1.2.4. General Arrangement drawings,
 - 6.3.1.2.5. Wiring and Control General Arrangement drawings,
 - 6.3.1.2.6. Electrical component schematics and part identification index,
 - 6.3.1.2.7. Spare parts and tool lists;
- 6.3.2. Electronic copies of documentation must be in both pdf format and the original source format, either Word or Excel or AutoCAD, latest version.

7. WARRANTY

- 7.1.1. The minimum warranty requirements are stated in the Contract.
- 7.1.2. For the purpose of installation, various components may require to be separated and subsequently reassembled. If separation and reassembly is required, this practice must not void the manufacturer's warranty.
- 7.1.3. The warranty period must commence at the time of acceptance of the unit by Canada and be valid for 12 months. Canada prefers a longer warranty.

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8. OPTIONS

Not used.

END OF DOCUMENT

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ANNEX B – BASIS OF PAYMENT

Note to bidders: Annex B forms the bases of payment for the resulting contract and should not be submitted with the bid.

B1. Contract Prices

ARTICLE	DESCRIPTION	Prix unitaire
A	Biological Sewage Treatment Plant in accordance with Annex A.	\$ [REDACTED]
B	Delivery Incoterms 2000 DDP to Sidney, BC.	\$ [REDACTED]
		Total Price
Best Date of Delivery Offered : _____		

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ANNEX C – FINANCIAL EVALUATION

Instructions to Bidders

The bidder is to enter their pricing in the pricing schedule below.

C.1 Pricing Schedule – Table 1

ITEM	DESCRIPTION	PRICE (\$)
C.1A	Biological Sewage Treatment Plant in accordance with ANNEX A.	
C.1B	Delivery in accordance with Incoterms 2000 DDP to VICTORIA, BC.	
C.1C	Total Price (C.1A + C.1B)	
Best Delivery Date Offered: _____		
Delivery must be on or before December 31, 2021.		

C.2 Evaluation Price

ITEM	DESCRIPTION	Price (\$)
C.2A	Evaluation Price = (C1.C)	

ANNEX D – TECHNICAL EVALUATION

D-1 GENERAL

- D-1.1 The general requirement for the Bidder's Technical Bid is stated at Part 3 of the Bid Solicitation.
- D-1.2 The Evaluation Procedure is stated at Part 4 of the Bid Solicitation. The evaluation procedure indicates the composition of the evaluation team. This Annex gives the detailed Evaluation Criteria and Scoring Procedure.
- D-1.3 In order that a complete technical evaluation of the Bid can be conducted, the Bid must be compliant with all of the bid deliverable requirements, which are summarized under Part 3 of the Bid Solicitation. It is the Bidder's responsibility to clearly demonstrate their capabilities and capacity to complete all of the Work and other requirements stated in the Bid Solicitation, the Statement of Work and other attachments. Bidders should describe their capabilities, how they will comply with mandatory requirements, and how they will deliver any other requested goods and/or services.
- D-1.4 It is requested at Article 3.1 that the Bidder present topics in the order of these evaluation criteria and under the same headings and numbering scheme. Alternatively, the Bidder should include in their Technical Bid an applicability matrix wherein they identify, by page number, where each of the criteria is addressed in their Bid.

D2 MANDATORY TECHNICAL CRITERIA

- D-2.1 The Mandatory Technical Criteria are detailed in Table D-1 Mandatory Criteria. Mandatory Criteria will be assigned either a Pass or Fail by the evaluation team. Any Bid which fails to comply with any Mandatory Criterion will be declared non-responsive.
- D-2.2 The Bidder should provide, as part of its Technical Proposal, all documents essential to clearly demonstrate compliance with each technical mandatory requirement, including, without limitation, photographs, maps, drawings, calculations, Original Equipment Manufacturer (OEM) specifications, documents, purchase orders (less cost data), job or Quality Control or Quality Assurance record sheets, personnel resumes, current trade certificates and, other such evidence.
- D-2.3 The Bidder should provide, as part of its Technical Proposal, a Bidder filled out Table – D-1 Mandatory Criteria providing references by page and section, to their Technical Proposal where each requirement is addressed.

Table D-1 -- Mandatory Criteria

The Mandatory Technical Criteria are detailed herein. Mandatory Criteria will be assigned either a Pass or Fail by the evaluation team. Any Bid which fails to comply with any Mandatory Criterion will be declared non-responsive.

The Bidder should provide, as part of its Technical Proposal, all documents essential to clearly demonstrate compliance with each technical mandatory requirement, including, without limitation, photographs, maps, drawings, calculations, Original Equipment Manufacturer (OEM) specifications, documents, purchase orders (less cost data), job or Quality Control or Quality Assurance record sheets, personnel resumes, current trade certificates and, other such evidence.

Technical data is defined as a drawing, data sheet or separate technical information that validates the requirement.

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Part 1 Mandatory Criteria

Technical data is defined as a drawing, data sheet or separate technical information that validates the requirement.

Statement is defined as written affirmation that the equipment proposed will meet the requirement.

Spec #	Item Description	Pass/Fail	Bid Ref #	Comments
1	1.4 The sewage treatment plant must be class approved by a recognized IACS member for use in a marine application, and must be supplied with a Type Examination Certificate provided by the Class Society. Certificate to be provide on bid closing.			
2	1.5.1 The Sewage Treatment Plant and all associated equipment must meet Transport Canada approval for marine Sanitation devices as per Vessel Pollution and Dangerous Chemicals Regulations (SOR/2012-69) for discharge both inside and outside the 12 NM limit.			
3	1.5.2 The Sewage Treatment Plant must produce an acceptable effluent discharge that meets the effluent quality standards set out by IMO Resolution MEPC 227(64) with the exemption of section 4.2.			

4	2.1.1	The Sewage Treatment Plant (STP) must be designed for a normal operating use of a minimum of 22 persons.			
5	2.1.3	The STP must have bolt on covers to allow for the ship's crew to manually access the internals of the unit for cleaning and maintenance. This must be shown on a drawing with the contractors bid.			
6	2.1.4	The STP must be capable of handling a minimum of 3100L/day Hydraulic Load. This must be shown on a technical data sheet.			
7	2.1.5	The STP dimensions must not exceed 1750mm length and must not exceed 1410mm width. This must be clearly shown on a drawing.			
8	2.1.6	The STP total combined dimensions and maintenance access envelope must not exceed 2550mm length X 2400mm width, and 1600mm height. This must be clearly shown on a drawing.			
9	2.1.7	The STP must be capable of operation when installed with the major axis oriented longitudinally. This must be shown with either a statement or on a technical data sheet.			
10	2.1.9	The STP must be fully automated and be able to run continuously. This must be shown by a statement from the contractor.			
11	2.1.11	The STP must include 1 duty and 1 standby discharge pump suitable for pumping effluent. The discharge pump must be capable of operating in auto or manual mode. When the pump is in auto mode, all pump functions must be controlled, and the controls must prevent the pump from dry running. This must be shown with a technical data sheet, drawing or description.			
12	2.1.13	The STP must be capable of pumping out the sludge build up and discharging sludge to a ships holding tank. This must be shown with technical data.			
13	2.1.14	The STP must have it's own aeration supply system. Aeration blowers must be fitted with isolation valves on discharge. This must be shown with technical data.			
14	2.1.18	The STP must have a means of venting to the exterior of the vessel.			
15	2.1.19	The STP must include a fully enclosed control panel, complete with all controls required for fully automated and manual control of all functions required for the system to operate			
16	2.2.1	The STP must be of the Biological type and must NOT use membranes or microfilters in the sewage treatment process. This must be shown with technical data.			

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17	2.3.1	The STP must be of all welded construction with the exception of any bolt on access hatches and all components are to be painted with marine epoxy paint systems. Connections to aeration / settling / contact tank must be socket weld flanges and all components are to be painted with an industrial coating system that is commercially available through third parties.			
18	2.3.2	The following components must be constructed of 316L stainless steel a) Tank construction b) Discharge pump suction manifold and discharge spool c) Aeration / settling / contact tank isolation valves This must be shown with the technical data.			

ANNEX E - BID SUBMISSION CHECK LIST

E1.1 Mandatory Tender Deliverables Checklist

Notwithstanding deliverable requirements specified anywhere else within this bid solicitation and its associated Requirement (Annex A), mandatory deliverables that must be submitted with the Bidder's tender to be deemed responsive, are summarized below.

The following are mandatory and the Bidder's submission will be evaluated against the requirement as defined herein. The Bidder must be determined to be compliant on each item to be considered responsive.

No	Solicitation Part	Reference	Description	Document provided
1	Front page	Front page	<u>Request for Proposal</u> document part 1 page 1 completed and signed;	<input type="checkbox"/>
2	3	Article 3.1 Section I	Technical Bid Submission in response to Annex D – Technical Evaluation	<input type="checkbox"/>
3	3	Article 3.1 Section II, Annex C	Annex C – Financial Evaluation, completed	<input type="checkbox"/>

E1.2 Supporting Deliverable Requirements

If the following information which supports the bid is not submitted with the Bid; it may be requested by the Contracting Authority, and it must be provided within 48 hours of the written request:

No	Solicitation Part	Reference	Description	Condition	Document provided
1	Part 6	6.9	Applicable Laws (if applicable)	48 hours of written request	<input type="checkbox"/>
2	6	Articles 6.5.3, Annex E	Contractor's Representatives, table completed	48 hours of written request	<input type="checkbox"/>
3	Annex F	3.1.5.2	Electronic Payment Instruments	48 hours of written request	<input type="checkbox"/>
4	Annex G	5.1.1	Integrity Provisions – List of Names, completed	48 hours of written request	<input type="checkbox"/>

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E.1.3 Contractor's Representatives

The bidder is to complete table below and submit with their bid.

Contact for:	Name	Telephone	Email
Contracting issues			
Technical issues			
Invoicing issues			

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ANNEX F - ELECTRONIC PAYMENT INSTRUMENTS

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

- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only);

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ANNEX G – INTEGRITY REGIME – LIST OF NAMES

The Integrity Regime – List of Names starts on the next page and consists of 2 pages.