



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving
- PWGSC

1550 Avenue d'Estimauville
1550 D'Estimauville Avenue

Québec
Québec
G1J 0C7

**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 4.0 HP Heat Pump&Heat Exchanger	
Solicitation No. - N° de l'invitation F3710-175066/A	Date 2017-12-06
Client Reference No. - N° de référence du client F3710-175066	
GETS Reference No. - N° de référence de SEAG PW-\$QCW-027-17280	
File No. - N° de dossier QCW-7-40191 (027)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-16	Time Zone Fuseau horaire Heure Normale du l'Est HNE
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Bernier, Odette	Buyer Id - Id de l'acheteur qcw027
Telephone No. - N° de téléphone (418) 649-2813 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: FISHERIES AND OCEANS / PÊCHES ET OCÉANS DIRECTION DES SCIENCES DÉMERSALES ET BENTHIQUES 850 ROUTE DE LA MER C.P. 1000 MONT JOLI Québec G5H3Z4 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

TPSGC - PWGSC
601 - 1550 Avenue d'Estimauville
Québec
Québec
G1J 0C7

Delivery Required - Livraison exigée Voir doc	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

TITLE: HYDRAULIC HOSES FOR THE CANADIAN COAST GUARD CRANES

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N° de la modif - Amd. No.
File No. - N° du dossier
QCW-7-40191

Id de l'acheteur - Buyer ID
QCW027
N° CCC / CCC No. / N° VME - FMS

PART 1 - GENERAL INFORMATION

1.1 Requirement

The Department of Fisheries and Oceans Canada (DFO) has a requirement for the acquisition of two (2) 4.0 HP heat pumps and its heat exchangers. The heat exchangers must be optimized for maximum transfer of cold or heat in a Copeland 4.0 HP, PN FFAP-050Z-TFE-070 refrigeration/heating unit or equivalent. Sea water will flow through these heat exchangers at a rate of 250 liters/minute. All the goods must be compliant with the technical specifications described in Annexe A- Requirement.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within **fifteen (15)** working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

1.3 Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

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 (2017-04-27) 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

B3000T (2006-06-16) Equivalent Products
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.

Your proposal can be transmitted by fax to # 418-648-2209 or by mail to the following address:

Bid Receiving Unit
Public Works and Government Services Canada (PWGSC)
601-1550 D'Estimauville Avenue
Quebec City, Quebec, Canada, G1J 0C7

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority Odette.Bernier@tpsgc-pwgsc.gc.ca 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 the Province of Quebec.

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 sections as follows:

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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 and how they will carry out the Work.

Section II: Financial Bid

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

3.1.1 Exchange Rate Fluctuation

C3011T (2013-11-06) Exchange Rate Fluctuation

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

4.1.1 Technical Evaluation

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

4.1.1.1 Mandatory Technical Criteria

- a) The bidders must submit with bid the signed first page of this Request for Proposal. By signing the first page of this RFP, the bidder agrees to deliver and be compliant with all the technical specifications and components described in Annex A.
- b) Bidders must provide three (3) examples of similar projects carried out during the five (5) last years. **Similar project means:** expertise in manufacturing this type of device: heat pump air-water with heat exchanger for cooling / heating of seawater.

4.1.2 Financial Evaluation

- a) The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, **(DDP) Delivered Duty Paid at destination**, Canadian customs duties and excise taxes included, in accordance with **Annex B – Basis of Payment**.
- b) Although 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.

4.2 Basis of Selection – Mandatory Technical Criteria

A bid **must** comply with the mandatory requirements of the bid solicitation including the **Annex A - Requirement** and meet all mandatory technical evaluation criteria at **point 4.1.1.1** to be declared responsive. The responsive bid with the lowest evaluated price (Annex B) 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.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement 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.

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 \(http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html\)](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](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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

There is no security requirement applicable to this contract.

6.2 Requirement

The Contractor must supply and deliver two (2) 4.0 HP heat pumps and its heat exchangers, in accordance with the Requirement at Annex A.

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](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.1.1 Warranty Period

Section 09 entitled Warranty of General Conditions 2010A (2014-11-27) is amended as follows:

1. At subsection 1, Add: The exchangers to be warranted against manufacturing defects and corrosion for a minimum of ten years.
2. Replace subsection 2 with the following:
When the Contractor must carry out any necessary repair or making good of the Work at that location, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

6.4 Term of Contract

6.4.1 Period of the Contract

The contract period is from the date of contract award until the end of the warranty period inclusively.

6.4.2 Delivery Date

All the deliverables must be received, at the site of the Maurice Lamontagne Institute (MLI) no later than ten (10) weeks of contract award.

6.4.3 Delivery Location

Delivery of the requirement will be made to delivery location specified in the contract clause, article 6.13 Entitled «Shipping Instructions - Delivery at Destination».

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Odette Bernier
Title: Procurement Agent
Public Works and Government Services Canada
Eastern Quebec Directorate
Address: 601-1550 D'Estimauville Avenue,
Quebec City, Quebec, Canada
G1J 0C7
Telephone: 418-649-2813
Facsimile: 418-648-2209
E-mail: Odette.Bernier@tpsgc-pwgsc.gc.ca

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

6.5.2 Technical Authority

The Technical Authority for the Contract is: *(will be completed at contract award)*

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

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 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

General enquiries:

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

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QCW027
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Delivery follow-up:

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

After-sales service:

The following dealer and/or agent is authorized to provide after sales service, maintenance and warranty repairs; and a full range of repair parts for the equipment offered:

Distance between the delivery location and the dealer and/or agent: _____ km

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

6.6 Payment

6.6.1 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, as specified in Annex B for a cost of \$ _____ (*insert the amount at contract award*). Customs duties are *included* and Applicable Taxes are extra.

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

6.6.2 Terms of payment – Single Payment

SACC Manual Clause H1000C, (2008-05-12) Single Payment

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 distributed as follows:

FISHERIES AND OCEANS CANADA
Direction de sciences démersales et benthiques
Maurice Lamontagne Institute (MLI)
850 Route de la Mer, C.P.1000
Mont-Joli, QC CANADA G5H 3Z4

AND

3. An electronic copy must be transmitted to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 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.

6.9 Applicable Laws

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

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 (2016-04-04) Goods (Medium Complexity);
- c) Annex «A», Requirement;
- d) Annex «B», Basis of payment;
- e) The Contractor's bid dated _____ (*insert date of bid*)

6.11 SACC Manual Clauses

G1005C	2016-01-28	Insurance
B7500C	2016-06-16	Excess Goods

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6.12 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.13 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and **delivered (DDP) Delivered Duty Paid to the following site:**

**FISHERIES AND OCEANS CANADA
Direction de sciences démersales et benthiques
Maurice Lamontagne Institute (MLI)
850 Route de la Mer, C.P.1000
Mont-Joli, QC CANADA G5H 3Z4**

As per Incoterms 2000 for shipments from commercial contractor.

ANNEX A- REQUIREMENT

Basic Characteristics of a 4.0 HP Heat Pump

Context:

The desired heat exchanger must be optimized for maximum transfer of cold or heat from a Copeland 4.0 HP PN-FFAP-050Z-TFE-070 refrigeration/heating unit or equivalent.

Sea water will flow through this heat exchanger at a rate of 250 litres/minute.

The heat pumps are intended to maintain the temperature of pools containing living organisms that have a reduced capacity of survival if they are exposed to temperatures outside of their range.

1. Coil

- a) Material: Titanium (minimum Grade 2)
 - b) Dimensions: Made of 0.75 in. diameter titanium tubing at a length suitable to transfer the maximum amount of energy produced. Minimum length 50 ft.
 - c) Fittings: Plastic waterproof connectors to seal the titanium tubing to the heat exchanger housing
-

2. Exchanger housing

- a) Principle: Consists of one tube, closed with a plug at each end:
One fixed PVC Sch 80 (glued) cap
One removable plug (1 in. thick PVC plate, 14 in. x 14 in.)
Including the refrigerant gas inlet and outlet
- b) Materials: Sch 80 PVC and 3/8-in. bolts in hot-dip galvanized steel or 316 stainless steel.
- c) Inside diameter: 8 in. or greater
- d) Length: 42 in. inside the flanges for a 4-hp unit
- e) Alignment: Horizontal
- f) Water inlet and outlet: Nipple, PVC, internal diameter 2 in., length 4 in., screwed in at each end, on the top, and at the point where there are two thicknesses of PVC due to the bonding of the flange and cap.
- g) Housing insulation: Entirely covered of neoprene with a minimum thickness of ½ in.
- h) Drain valve: In PVC, ½ in., below the housing, easily accessible, and non-vulnerable.
- i) Temperature sensor wells: Temperature sensor wells in titanium (minimum Grade 2).

- j) Supports: On one side, a PVC plate that serves as a plug and as a support. On the other side, a 3/4 in. thick PVC plate, 7 in. x 14 in., with a notch to accommodate the tube of the exchanger's tubular housing. These plates will be bolted (stainless steel bolts) from below through the 1/2 in. thick PVC plate that forms the base for the entire heat pump.
- The exchanger will be mounted on the 7 in. x 14 in. bracket by a 3/4 in. width slip-on flange in stainless steel, fixed with 1/4-20 UNC bolts.

3. Refrigeration unit

- a) Capacity: The assembly (refrigeration and heat exchanger package) should have sufficient capacity to maintain 14,000 litres of sea water at 5° C throughout the year, in a room at a temperature of 18° C. Water makeup is at 20 litres per minute, at a maximum temperature of 11° C.
- Separate and adjustable high- and low-pressure controls
- An SPDT pressure switch adjustable to 0–30 psi must be installed on the exchanger's housing, near the water inlet, and connected to the digital input of the Honeywell controller (# T775B2016). Use a non-metal isolator (e.g., SG Series Gauge Isolators from Chemline) to isolate it from salt water.
- One switch (pressure or flow switch) to protect the heat exchanger's housing in case of ice formation around the titanium coil.
- Expansion valves in stainless steel
- All copper fittings (on the cold circuit) on the device to be insulated with neoprene.
- Semi-hermetic compressor
- Fan cycling (for 1 to 5 hp only).
- Evaporator fans connected to a relay to operate simultaneously (if applicable) during heating.
- b) Components: All refrigeration system components must be welded.
- The electrical connection box of the unit containing the magnetic, the cyclic fan controls, and the high-pressure controls should be waterproof, NEMA-type PVC and approved for electrical use. All connectors and/or waterproof mountings must be installed on the sides, and not on the top, including the power cable.
- Refrigerant to be R-404A.
- c) Materials: All electrical wires to be covered with a sea-water resistant plastic casing; no metal casings.
- All wire connectors and/or attachments to be made of plastic.

4. Assembling the heat pump base:

The components will be mounted on a 1/2 in. thick PVC plate heat with a 1 in. PVC rim that creates a drainage tray.

The heat pump's metal plate will be separated from the PVC plate using rubber rings.

The assembly will rest on three 4 in. x 4 in. "H" frames, perpendicular to the exchanger. Those outside will be directly below the exchanger's supports (fixed in the outer wing) and the third is below the heat pump's plate support but at least 8 in. from the other frames.

The bolts for the metal base of the refrigeration unit will have to go through the PVC plate and the wings of the "H" frames supporting the unit.

The assembly will be assembled on a single level and the maximum dimensions are 44 in. wide by 54 in. long.

5. Standards:

All electrical components to be CSA approved and installation to comply with regulations in force, and be suited to a corrosive environment (sea-air).

6. Transport:

Transport to the Maurice Lamontagne Institute (MLI) to be included in the price of the unit.

7. Start-up

To be performed after the Client has connected the water supply lines to the device, at a date agreed upon between the two parties involved. It will follow the refrigerant gas filling and adjustments on the installation site.

8. Maximum dimensions of devices:

1/3 to 1 hp	18 in. x 26 in. x 15 in. high
1.5 and 2 hp	40 in. x 44 in. x 25 in. high
3 and 4 hp	44 in. x 54 in. x 25 in. high
5 hp	44 in. x 60 in. x 31 in. high

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N° de la modif - Amd. No.
File No. - N° du dossier
QCW-7-40191

Id de l'acheteur - Buyer ID
QCW027
N° CCC / CCC No./ N° VME - FMS

9. Warranties and Service:

Exchanger to be guaranteed against manufacturing defects and corrosion for a minimum of 10 years.

Warranty: Four additional years on the compressor, for a minimum of five years; two years on parts and labour carried out on site for the remainder of the unit.

After-sales service on site (Mont-Joli) within a maximum period of four hours in order not to threaten the integrity of research projects which depend on these components.

N° de l'invitation - Solicitation No.
 F3710-175066/A
 N° de réf. du client - Client Ref. No.
 F3710-175066

N° de la modif - Amd. No.
 File No. - N° du dossier
 QCW-7-40191

Id de l'acheteur - Buyer ID
 QCW027
 N° CCC / CCC No./ N° VME - FMS

ANNEX B- BASIS OF PAYMENT

Item	Description	QTY	UD	Unit Price (CAD \$)	Total Price (CAD \$)
1	4.0 HP Heat Pump & Heat Exchanger in accordance with all the detailed specifications at Annex A, Including start-up, warranties described in Annex A.	2	EACH	_____ \$	_____ \$
2	(DDP) Delivery Duty Paid to Destination at Fisheries and Oceans Canada, Maurice Lamontagne Institute, 850 route de la Mer, Mont-Joli, QC, G5H 3Z4 , including all custom fees, handling and transportation.	1	LOT	_____ \$	_____ \$
EVALUATION BID PRICE – TOTAL (CAD): (Applicable Taxes excluded)					_____ \$