

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
BFC Bagotville, CP 380
CFB Bagotville, PO Box 380
Bâtiment 71, local 115
Building 71, Room 115
Alouette
Quebec
G0V1A0

**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 Aluminum Floating Docks System	
Solicitation No. - N° de l'invitation W0138-12L002/A	Date 2012-12-27
Client Reference No. - N° de référence du client W0138-12L002	
GETS Reference No. - N° de référence de SEAG PW-\$BAL-001-15115	
File No. - N° de dossier BAP-2-35529 (001)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-01-15	Time Zone Fuseau horaire Heure Normale du l'Est HNE
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: Tremblay, Marial	Buyer Id - Id de l'acheteur bal001
Telephone No. - N° de téléphone (418) 677-4000 (4159)	FAX No. - N° de FAX (418) 677-3288
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: For the Cadet Region Support Unit East Region (CRSU East) - DND Delivery and Installation Site: Anse a Benjamin La Baie - Saguenay, Quebec, 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
BFC Bagotville, CP 380
CFB Bagotville, PO Box 380
Bâtiment 71, local 115
Building 71, Room 115
Alouette
Québec
G0V1A0

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	

**ALUMINUM FLOATING DOCKS SYSTEM,
ITS ACCESSORIES, AND THE ANCHORING SYSTEM**

FOR CADETS, AT THE MARINA OF LA BAIE - SAGUENAY

DND - CRSU EAST

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.1 of the resulting contract clauses.

1.2 Debriefings

After contract award, 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 of 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 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 No Substitute Products

SACC Manual Clause B4024T (2006-08-15), No Substitute Products.

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.

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

Bid Receiving Unit: Public Works and
Government Services Canada
CFB Bagotville, PO Box 380
Building 71, Room 115*
Alouette, Quebec, G0V 1A0

*NOTE: Our offices are located in Building 71 which is the Recreation Centre at CFB Bagotville and room 115 is adjacent to the Subway restaurant.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

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 (3 hard copies)

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 corresponding 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>).

To assist Canada in reaching its objectives, bidders are encouraged to:

- (1) use paper containing fibre certified as originating from a sustainably-managed forest and/or 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. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

Exchange Rate Fluctuation

SACC Manual Clause C3010T (2010-01-11) Exchange Rate Fluctuation.

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.
- (c) The evaluation team will determine first if there are three (3) or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than three responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Requirements

At the bid closing date, each bid will be reviewed for compliance with the mandatory requirements of the bid solicitation. All elements of the bid solicitation that are mandatory requirements are identified specifically with the words "must" or "mandatory". Bids that do not comply with each and every mandatory requirement will be considered non-responsive and be disqualified.

Mandatory Requirements

(1) Bidders must propose goods meeting all the technical specifications and components required and outlined under the Annex "A" at the bid closing date. Any bid stating unable to meet any of the technical specifications and components required and outlined in Annex "A" will be declared non-responsive.

➔ To demonstrate that their products meet this requirement, Bidders must submit with their bid the following documents:

1. Technical drawings showing the offered products.
2. Assembly drawings for all dock components (cleats, floats, fenders, dock-to-dock connection, chain connectors, concrete block, etc.).
3. Sample of the proposed decking (a piece of 4" x 6").

If the documents submitted with your bid does not show that your products meet the technical specifications, your bid will be declared non-responsive.

Bidder are encouraged to annotate their technical documentation and to cross reference with the articles of Annex "A".

(2) Bidders must be able to deliver all goods (all goods ready for use) within a maximum period of eight (8 weeks) after the award of Contract.

Any bid stating a delivery period more than eight (8 weeks) after the award of Contract, will be declared non-responsive.

➔ Although delivery is required within a maximum period of eight (8) weeks after contract award, the best delivery can be offered after the award of the contract is:

_____ weeks

Mandatory Requirements	
(3)	<p>Experience of the Bidder</p> <p>Bidders must have successfully completed at least three (3) projects of a minimal scope and in the same field as required herein.</p> <ul style="list-style-type: none"> • <u>Minimal scope means:</u> a project of a minimum value of \$75,000.00. • <u>Same field means:</u> design and manufacture an aluminum floating docks system anchored with chains and deadmen. <p>➔ In order to demonstrate that the company has the necessary qualifications, bidders must provide a list of relevant projects that they have completed (at least three projects), list of projects that should include a short description of each one, the company's responsibilities in each, the project duration and value, as well as the name of the client for whom the work was performed.</p>

4.1.2 Financial Evaluation

The total price of each bid will be established using the following criteria:

- (a) Bidders should submit their financial bid in Canadian Funds; bid that must include any applicable Taxes and Canadian Customs Duty (if applicable) and excluding the Goods and Services Tax (GST) or Harmonized Sales Tax (HST). For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing.
- (b) Bidders must submit their prices DDP destination; Delivered Duty Paid.

4.2 Basis of Selection - Mandatory Technical Criteria

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

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

5.1 Mandatory - Certifications Precedent to Contract Award

5.1.1 Code of Conduct and Certifications - Related documentation

1. By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.
2. Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide

lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

3. Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form-PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/229.pdf>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

5.2 Additional Certifications Precedent to Contract Award and Certifications Required with the Bid

5.2.1 Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

5.2.1.1 Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from

the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC (

<http://www.servicecanada.gc.ca/cgi-bin/search/efrms/index.cgi?app=profile&form=lab1168&dept=sc&lang=e>).

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44 (<http://laws.justice.gc.ca/en/E-5.401/index.html>);
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) () is subject to the FCP, and has a valid certificate number as follows: _____ (e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site (<http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml>).

5.2.2 Additional Certifications Required with the Bid

5.2.2.1 Canadian Content Certification

This procurement is conditionally limited to Canadian goods.

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

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

The Bidder certifies that:

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

5.2.2.2 Canadian Content Definition

SACC Manual clause A3050T (2010-01-11), Canadian Content Definition.

PART 6 - RESULTING CONTRACT CLAUSES

Notice: Numbering will be revised at contract award

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

6.1 Requirement

The Contractor must design, manufacture, and install an aluminum floating docks system and its accessories that will be added to an existing marina located at La Baie - Saguenay, as well as to supply and install a new anchoring system for this entire marina, in accordance with the Requirement described 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>) issued by Public Works and Government Services Canada.

6.2.1 General Conditions

2010A (2012-11-19), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.2.1.1 Warranty Period

Section 09 of general conditions 2010A is amended by replacing the period of 12 months by ten (10) years.

All other provisions of the warranty section remain in effect.

6.3 Term of Contract

6.3.1 Delivery, Storage, Installation, and Training

1. All deliverables must be ready to be delivered (the docks are manufactured, the accessories and the anchoring system are acquired and stored with the docks) within a maximum period of eight (8) weeks after contract award.
2. All deliverables must be stored by the Contractor from April 1, 2013 until the date of installation.

-
3. Delivery, installation and the training must be completed no later than June 7, 2013.

6.4 Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Marial Tremblay - Supply Specialist

Postal Address: Public Works and
Government Services Canada
CFB Bagotville, PO Box 380
Building 71, Room 115
Alouette, Quebec, G0V 1A0, Canada

Telephone: (418) 677-4000, Ext.: 4159

Facsimile: (418) 677-3288

E-mail address: marial.tremblay@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.

6.4.2 Project Authority

The Project Authority for DND is :

(to be completed at contract award by PWGSC)

Name:

Address:

Tel.:

Fax:

E-mail:

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 related to technical content of the Work under the Contract. Technical matters may be discussed with the Project 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 Representatives

Name and telephone number of the person responsible for :

(a) Contract Manager:

Name:

Title:

Telephone No.:

Facsimile No.:

E-mail Address:

(b) Delivery, and installation follow-up:

Name:

Title:

Telephone No.:

Facsimile No.:

E-mail Address:

6.5 Payment

6.5.1 Basis of Payment - Firm Lot Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm lot prices, as specified in Annex "B", for a cost of \$_____ (the amount will be inserted at contract award by PWGSC). Customs duties are included, and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

6.5.2 SACC Manual Clauses

Number	Date	Title
C2000C	2007-11-30	Taxes - Foreign-based Contractor
H1001C	2008-05-12	Multiple Payments

6.6 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.7 Certifications

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or 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.

6.7.1 Canadian Content Certification

SACC Manual clause A3060C (2008-05-12), Canadian Content Certification.

6.8 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.

6.9 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) 2010A (2012-11-19), General Conditions - Goods (Medium Complexity);
- (c) Anexe "A" - Requirement;
- (d) Annex "B" - Basis of Payment; and
- (e) the Contractor's bid dated _____, as amended _____ (to be completed at contract award by PWGSC).

6.10 Defence Contract

SACC Manual Clause A9006C (2012-07-16), Defence Contract.

6.11 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered Delivered Duty Paid (DDP) "Marina of La Baie (Anse a Benjamin), La Baie - Saguenay, Quebec, Canada" Incoterms 2000 for shipments from a commercial contractor.

ANNEX " A " - REQUIREMENT

A.1 Part 1 - General

A.1.1 Background

1. The Cadet Region Support Unit East Region (CRSU East) requires the construction of docks and requires the installation of new anchors for their nautical program at the Saguenay Region at the Anse a Benjamin.
2. The Appendix 1 of Annex "A" is a couple of photos of the Anse a Benjamin's site and identify the location of the Marina's Club docks. The Cadet's docks will be installed at the back of the present docks. The second line of docks will be moved forward approximately 20 feet which will required new anchors.
3. The Appendix 2 of annex "A" is the plans and drawing up of the cadet's docks including the added anchoring which were obtained through the Marina Club.

A.1.1.1 Appendices 1 and 2 of Annex "A"

Appendices 1 and 2 of Annex "A" attached hereto must be inserted here and part of this document.

A.1.2 Scope of work

1. This project is for the design, manufacturing, delivery to site, unloading and complete installation including anchoring of new floating docks, as well as all accessories listed and shown in the plans and this annex, and a training.
2. The Contractor is responsible for soil studies to propose an adequate anchoring system in compliance with public use of all floating docks. Here are some pieces of information that we have: "A clay soil of minimum of 5 ft deep. The soil is mixed with round rocks and a clay."
3. The Contractor must supply products that meet all technical design criteria included in Part 2 of this Annex.
4. The Contractor must fully comply with the technical specifications of this annex and the plans, no substitute products will be accepted.

A.1.3 Technical Documents Before Manufacturing

1. Following the award of the contract and before manufacturing the dock structure begins, the contractor must furnish detailed engineering drawings and design calculations not only for the work and product supplied by the Contractor but also for the anchoring system. All engineering drawings and calculations must bear the seal of a registered professional engineer who is a member of the Ordre des ingénieurs du Québec or equivalent in Canada [equivalent: as long as the design and manufacture of docks as well as their installation (the whole project) respect the laws in force in the province of Quebec].
2. The required drawings and calculations must include, but not limited to, the following:
 - (1) General layout of the floating dock system.
 - (2) Layout with dimensions of proposed docks.
 - (3) Anchoring system layout with measurements and locations.
 - (4) Technical drawings of each different floating dock element, i.e. straight dock, angled dock, etc.
 - (5) Floats: their position under the docks and their method of attachment.
 - (6) Connections between the different floating modules.
 - (7) Method of attachment of fenders.
 - (8) Method of attachment of accessories.
 - (9) Method of attachment of guardrails.
 - (10) Method of attachment of green artificial turf.
 - (11) Method of attachment of mooring cleats.
 - (12) Anchoring calculations of the marina.
 - (13) Typical flotation calculation for a straight main dock and an angled dock.

A.1.4 Standards

Structures and components of the floating docks must be designed with a minimum safety factor as specified by CSA's standard no.S-157 M83: "Strength Design in Aluminum". They must be welded in accordance with the procedures of CSA's standard no. W59.2 1991 by a company certified to CSA's standard no. W 47.2 M 1987 division 2.1.

A.1.5 Optional Site Visit

It is recommended that the Contractor or a representative of the Contractor visit the work site.

A.2 Part 2 - Products

A.2.1 Description of the Material to Supply

1. The following technical data has been chosen for the design and supply of the floating docks. The Contractor must take them into account in the design and fabrication of the docks and in the design of the anchoring system.
2. Here is the list of material that the Contractor must supply in his contract. For more info, refer to Appendix 2 plans (layout drawings).

Description of the Material to Supply:		
Section A	Anchoring*	
Section B	1	Main dock with angle: 6.13 m (20'-1") wide x 35.17 m (115'-5") long
	2	Floating platform: 6.13 m (20'-1") wide x 6.09 m (20') long.
	3	Guardrails: 12.19 m (40') linear of aluminum guardrails and with a height of 1.067 m (42").
	4	Moorings: a) 10 units of mooring cleats - 305 mm (12") long.; and b) 12 units of mooring cleats - 406 mm (16") long.
	5	Fenders: a) 35.17 m (115'-5") D shape rubber fender 100 mm x 100 mm (4" x 4") non-marking; and b) 53.50 m (175'-6") of composite fender 25 mm x 65 mm (1" x 2.5").
	6	Artificial turf protection: 4.13 m (13'-7") wide x 35.17 m (115'-5") long.
	7	Anchoring

Section C	1	Main dock with angle:	6.13 m (20'-1") wide x 35.23 m (115'-7") long.
	2	Moorings:	a) 10 units of mooring cleats - 305 mm (12") long; and b) 12 units of mooring cleats - 406 mm (16") long.
	3	Fenders:	a) 35.23 m (115'-7") D shape rubber fender 100 mm x 100 mm (4" x 4") non-marking; and b) 41.35 m (135'-8") of composite fender 25 mm x 65 mm (1" x 2.5").
	4	Artificial turf protection:	4.13 m (13'-7") wide x 35.17 m (115'-5") long.
	5	Anchoring	
Section D	Anchoring*		
Section E	Anchoring*		

Important Note: The Contractor must also include the supply and installation of the anchoring components (chain connectors, chains, concrete blocks, ground anchors, etc.) of the entire dock sections A, D and E, even though he does not have to supply any of those dock sections.

A.2.2 Structurale performance requirements

You will find below the general requirements for structures. The contractor must also take into account the specific requirements as described in this annex.

A.2.2.1 Dead Load - Floating Docks

1. The weight of all framing, decking, floats, anchoring connectors, gangways and all permanently attached ancillary equipment and services must be included in the calculation of dead loads.
2. Freeboard under dead load must be indicated on the Contractor's drawings. The freeboard under dead load must be 559 mm (22 in) nominal for the marina.
3. The freeboard must be within ± 25 mm (1 in) of the nominal freeboard after installation.

A.2.2.2 Live load - Floating Docks

1. The live load applied on the straight main floating docks and on the floating platform must be 171 kg/m^2 (35 PSF).
2. The live load applied on the angled floating docks 122 kg/m^2 (25 PSF).
3. When applying the live load on half the width of the dock, the dock must not tilt more than 10° .
4. In any case, under live load, the freeboard of the straight docks must be a minimum of 178 mm (7").
5. In any case, under live load, the freeboard of the angled docks must be a minimum of 76 mm (3").

A.2.2.3 Vertical Load-Bearing Capacity

1. The structural capacity of all dock components and members must be designed to withstand a uniform vertical load of 2.4 kN/m² (50 PSF) over the entire decking surface with maximum deflection of L/300. For calculation purposes, the floats will be considered as fixed support points.
2. The net buoyancy (considering the weights of the docks, the floats, the electrical equipment and the anchoring components) must be a minimum of 171 kg/m² (35 PSF) for the straight floating docks and 122 kg/m² (25 PSF) for the angled docks only (2.13 m (7') wide docks that are at an angle relative to the horizon).
3. Net buoyancy is referred to as the volume of the floats above the water.

A.2.2.4 Horizontal Load-Bearing Capacity

1. The dock and anchoring systems must be designed to withstand a uniform wind pressure of 110 km/h (68 mph) coming from any direction on the projected areas of all docks and moored boats, at full occupancy of the dock system. The boat average height will be according to Tobiasson 1989* profile chart. This must be calculated with a perpendicular and parallel shield factor of 100% on the 1st row and 20% on the 2nd row. All calculations must be made with a safety factor of 1.5 on wind and wave loads.
2. The new floating docks must be designed to remain undamaged when subjected to loads generated by 0.3 m (1 ft) high waves on a continual basis, and waves up to 0.6 m (2 ft) intermittently.
3. The impact load must be calculated using the mass of the largest boat at a velocity of 0.5 meter/second (1.0 knot) and an approach angle of 10°. Furthermore, the impact load must be assumed to be absorbed over a distance of 915 mm (3 ft).
4. For calculation purposes, the same wind and wave loads must be applied to both the new and the existing (A, D and E) docks.

* Marinas and small craft harbors - Second Edition - By Bruce Tobiasson and Ronald Kollmeyer.

A.2.3 Specific Design and Performance Requirements of Individual dock Elements and Components

A.2.3.1 Aluminum structure

1. The structural frame of the floating dock elements and gangway must be made exclusively of extrusions of marine-grade, aluminum alloy, type 6061-T6. No other metals or aluminum alloy types will be considered. The design of the aluminum frame must be a Warren type truss.
2. All dock elements must be designed with a built-in, flush rail system permitting the quick and easy installation and repositioning of cleats and bollards without any modifications of the docks.
3. The lateral extrusions must be made of double hollow closed extrusions with a minimum linear weight of 6.0 kg/m (4.0 lbs/ft) and a minimum height of 178 mm (7 in). Each lateral extrusion must have a single rail along its length for the cleats and bollards.
4. A drawing of the dock elements must be submitted with the proposal to show the different sections of each extrusion.
5. The supports for the decking must be of aluminum and tubular.
6. All stringers, transversal and diagonal braces must be made of closed hollow aluminum extrusions.
7. All welding must be done using the MIG (Metal Inert Gas) process. All welds must conform to CWB 47.2. All welders of the dock Contractor must be certified by the Canadian Welding Bureau according to CWB 47.2.

A.2.3.2 Connectors

1. The connections at the interface of dock modules must be molded in one piece, aluminum reinforced, noise-free rubber connectors. Each connector must have a tensile strength of 11 tons. The connectors must be designed as the weakest points in the dock structure in order to ensure frame integrity.
2. The maximum space between two (2) dock sections must be less than 25 mm (1 in).

3. There must be a minimum of two such connectors per interface. Each connector must be fastened with at least 4 bolts /nuts having a minimum diameter of 16 mm (5/8 in).

A.2.3.3 Floats

1. Each modular dock section must have multiple floats with space in between each of them, allowing the flow of the water current and debris.
2. The floats must consist of a 5 mm (3/16 in) thick black UV-resistant polyethylene seamless shell enclosing expanded polystyrene foam. The foam must have a minimum density of 16 kg/m³ (1 lb/ft³).
3. All of the floats' flanges located on the sides of the docks or fingers must absolutely be slid into channels within the aluminum structure (to prevent them from fraying) while the opposite edges must be bolted directly to the cross-members with a minimum of (2) bolts and nuts of 7.9 mm (5/16") diameter.
4. Floats must have a pressure-release check valves to maintain float-integrity when temperature varies.
5. Floats must have flat tops without cavities to avoid marine growth or collecting debris. They must be molded in 1 piece and be seamless. Floats must have a non-porous surface. No alternates will be considered.
6. The floats must meet or exceed requirements of Hunt absorption test. Damaged floats must be easily replaceable independently of the dock structure.
7. Floats must conform to the following requirements:
 - ASTM - 1693
 - ASTM - D638
 - ASTM - D1525
 - ASTM - D746
 - ASTM - D790
 - ASTM - D256

A.2.3.4 Decking

1. The decking must be composite with a skid resistant surface. Furthermore, the decking must be static-electricity free. Decking in treated pine or in plastic panels (polypropylene) will not be considered.
2. The decking must have a finished thickness of 25 mm (1 in) and the gap between deck planks must be no more than 3 mm (1/8 in).
3. Each end of a deck plank must be inserted into a continuous slot on the inside lateral edge of the longitudinal aluminum extrusions.
4. The deck boards must be fastened a minimum of #10 stainless steel grade 304L screws into the aluminum stringers.

A.2.3.5 Moorings

1. The cleats must be cast aluminum alloy A356. The number and capacity of each cleat is to be clearly indicated by the Contractor in his contract.
2. The docks must be equipped with cleats with a minimum of 305 mm (12.00 in) in length along the Zodiac side of the docks. Each cleat must have a minimum capacity of 20 kN (4,500 lb_f) and must be fastened with three (3) 16 mm (5/8 in) diameter stainless steel "T" bolts.
3. The docks must be equipped with cleats with a minimum of 406 mm (16.00 in) in length along the sailboat side of the docks. Each cleat must have a minimum capacity of 28 kN (6,300 lb_f) and must be fastened with three (4) 16 mm (5/8 in) diameter stainless steel "T" bolts.

A.2.3.6 Fenders

1. On the Zodiac side of the docks, fenders must be made of composite wood, same colour as the decking, with a minimum thickness of 25 mm (1 in) and a minimum height of 65 mm (2.5 in).
2. On the sailboat side of the docks, fenders must be made of non-marking EPDM with a minimum width of 100 mm (4 in) and a minimum height of 100 mm (4 in).
3. Fenders must be attached to the dock so that its fasteners never touch boats.

A.2.3.7 Anchoring system

1. The docks must have a deadman anchoring system. The chain connectors must be fastened on the outside of the lateral dock extrusions and must be easily accessible.
2. The chain connectors must be in galvanized steel and must have isolator material to prevent it from touching any aluminum part.
3. The anchoring components must not be attached to the transversal and diagonal braces of the dock frames.
4. Chain for the marina must be in hot-dipped galvanized steel (HDG), grade 30, with long links of a minimum diameter of 12.7 mm (1/2 in).

A.2.3.8 Utilities and accessories

1. The client will indicate the points at which electrical and water services shall be located. After being awarded the contract, the Contractor must supply to the electrical and plumbing contractors detailed drawings indicating the location of the service conduits, power pedestals and other equipment.
2. The electrical and water services must be installed under the decking to be easily accessible from the top of the docks.
3. It is not acceptable to run pipes and cables directly on the floats.
4. The allowed space for pipes and cables under the decking must be across the whole width of the main docks. The minimum height must be 57 mm (2.25 in) under the decking.
5. The floating platform that will have dock boxes must have guard rails 1067 mm (42 in) minimum height on both of its sides.
6. The floating docks must have 6.35 mm (1/4 in) thick green artificial turf as indicated in the bid drawings in order to protect the sailboat hulls. The Contractor must properly installed to protect sailboats.

A.3 Part 3 - Execution

A.3.1 Schedule of Milestones

- March 31, 2013: The construction of these docks and the acquisition of new anchors including all hardware applicable to this project must be completed (ready for delivery) by March 31, 2013. DND (CRSU East) will take possession of the equipment by March 31, 2013 at the storing facility of the Contractor.
- April 1, 2013 to ...: Docks and anchoring components including all hardware applicable to this project must be stored by the Contractor from April 1, 2013 until their installation.
- June 7, 2013: Delivery, installation and training are scheduled for May 27, 2013 or no later than June 7, 2013 depending on weather.

A.3.2 Documents to be Supplied at Delivery

The following documents must be supplied in French, one (1) copy in hardcopy and one in electronic format, at the time of delivery of docks:

1. Installation Manual: The Contractor must ensure that installation manual contains all instructions, drawings and part sheets related to the assembly.
2. Wintering Procedure: The Contractor must provide the procedure to winterize docks. It must specify the method, materials and equipment required for winterizing..
3. Maintenance Sheets: The Contractor must provide the instructions for maintenance, dock cleaning as well as storage and removal of dock sections for winter.

A.3.3 Delivery and Unloading

1. Dock units and gangways must be delivered in the form of pre-assembled modules to facilitate on-site unloading, assembly and installation.
2. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.
3. When making deliveries, sufficient personnel must be provided to permit unloading of any type of vehicle without the assistance of federal government personnel.

A.3.4 Installation

1. The Contractor must send a qualified installation technician to the site during the installation of the dock modules to coordinate work at site.
2. Installation of dock include, but are not limited to, the supply of the material, labour and equipment to:
 - (1) Prepare the site to unload and install the floating docks.
 - (2) Unloading and launching the floating dock sections.
 - (3) Installation of the anchoring system of all new floating docks.
 - (4) Installation of the anchoring system of existing A, D and E docks only.
 - (5) Installation of the floating docks.
 - (6) Installation of the cleats and other items covered by this document.
 - (7) Final adjustment of the dock and anchoring systems.
3. All components must be properly handled as indicated in the installation manual that must be supplied by the dock Contractor prior to start of dock installation.
4. The Contractor must supply spare parts (hardware) in order to avoid missing any material during dock installation.
5. At the end of the installation works, the Contractor must inspect the docks with the client in order to validate that the docks comply with the specifications and that the installation is complete.
6. The Contractor must activate his 10-year warranty upon signature of the COC (Certificate of Completion) with the client.

A.3.5 Training

1. A complete training must be given for a duration of one (1) day of 8 hours to the marina managers regarding installation and dismantling of the docks according to the manufacturer's guidelines. Training will be provided on site at La Baie marina, immediately after the installation of docks.
2. Training should be given in French by qualified personnel of the contractor.

ANNEX " B " - BASIS OF PAYMENT

B.1 Pricing

Before submitting prices, please refer to clause 6.5 Payment.

Please complete the last column of the following table:

Item	Description	Quantity	Unit	\$ Firm Lot Price
1	Technical Documents Before Manufacturing (engineering drawings and design calculations before manufacturing) • according to article A.1.3 of Annex A.	1	Lot	
2	Products (material to be supplied including their design, manufacturing, and procurement) • according to article A.2 of Annex A.	1	Lot	
3	Warranty Period of 10 Years • according to clause 6.2.1.1 of this document.	1	Lot	
4	Storage of Docks, Anchoring Components, and Accessories • according to article A.3.1 of Annex A.	1	Lot	
5	Documents to be Supplied at Delivery • according to article A.3.2 of Annex A.	1	Lot	
6	Delivery and Unloading • all goods delivered at destination according to clause 6.11 of this document.; and • according to article A.3.3 of Annex A.	1	Lot	

Item	Description	Quantity	Unit	\$ Firm Lot Price
7	Installation <ul style="list-style-type: none"> according to article A.3.4 of Annex A; and labour, equipment, travel and living expenses included. 	1	Lot	
8	Training for one day of 8 hours <ul style="list-style-type: none"> according to article A.3. of Annex A; and labour, equipment, travel and living expenses included (travel time and training). 	1	Lot	
Total Value of the Contract:				

B.2 Invoices to Issue

Two invoices may be issued as follows:

1. an invoice of Articles 1, 2 and 3 of the table above after March 31, 2013, and
2. an invoice of Articles 4 to 8 of the table above after the installation and training is completed (around June 7, 2013).