



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid

Receiving - PWGSC

1550, Avenue d'Estimauville

1550, D'Estimauville Avenue

Quebec

Quebec

G1K 4K1

## INVITATION TO TENDER

## APPEL D'OFFRES

**Tender 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.

### Soumission 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 et 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

TPSGC/PWGSC

1550 Avenue d'Estimauville

Québec

Québec

G1J 0C7

<b>Title - Sujet</b> Floating docks and accessories	
<b>Solicitation No. - N° de l'invitation</b> F3731-180141/A	<b>Date</b> 2019-05-17
<b>Client Reference No. - N° de référence du client</b> F3731-180141	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$QCV-004-17679
<b>File No. - N° de dossier</b> QCV-8-41236 (004)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2019-07-02</b>	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> DeBlois, Vincent	<b>Buyer Id - Id de l'acheteur</b> qcv004
<b>Telephone No. - N° de téléphone</b> (418) 649-2712 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> See herein	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b> Voir doc.	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## **PART 1 – GENERAL INFORMATION**

### **1.1 Introduction**

The bid solicitation and resulting contract document is divided into seven (7) parts plus annexes as follows:

- Part 1** General Information: provides a general description of the requirement;
- Part 2** Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;
- Part 3** Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4** Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;
- Part 5** Certifications: includes the certifications to be provided;
- Part 6** Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7** Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Basis of Payment and other annexes.

### **1.2 Summary**

The requirement is to manufacture of Chromated Copper Arsenate (CCA), wooden floating docks and accessories for fishing harbours in the Gaspesia and Magdalen Island Region as detailed in the Requirement attached at Annex A of this call for tender, including but not limited to:.

1. The supply of material and labor to manufacture floating docks of steel galvanized and aluminium accessories, as per the Statement of Requirements and the drawings attached to this call for tender.
2. The supply of materials and specialized labor for the application of a 3 mm polyuria membrane on floating docks of lot 1, 2 and 3, all according to drawings and specifications attached.
3. The delivery of floating docks and accessories to the fishing harbour of St-Thérèses-de-Gaspé in the Gaspesia region for lots 1 and 2, and the fishing harbour of Cap-aux-meules in the Magdalen Islands for lot 3, as indicated in the specifications and drawings attached.

### **1.3 Comprehensive Land Claims Agreement(s).**

Not applicable.

### **1.4 Set-aside under the Federal Government Procurement Strategy for Aboriginal Business (PSAB)**

Not applicable.

### **1.5 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.

## **1.6 Trade agreements**

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-GPA), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), the Canadian Free Trade Agreement (CFTA), the Chile, the Colombia, the Honduras, the Korea, the Panama and the Peru Free Trade Agreements.

## **1.7 Epost Connect service**

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

# **PART 2 – BIDDER INSTRUCTIONS**

## **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The 2003 standard instructions is amended as follows:

- Section 08, entitled Transmission by facsimile or by epost Connect, is amended as follows:  
subsection 2. is deleted entirely and replaced with the following:

### **2. epost Connect**

- a. Unless specified otherwise in the bid solicitation, bids may be submitted by using the epost Connect service provided by Canada Post Corporation.

- i. PWGSC, National Capital Region: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC headquarters is:

[tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca](mailto:tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca)

or, if applicable, the email address identified in the bid solicitation.

- ii. PWGSC regional offices: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.
- b. To submit a bid using epost Connect service, the Bidder must either:
  - i. send directly its bid only to the specified PWGSC Bid Receiving Unit, using its own licensing agreement for epost Connect provided by Canada Post Corporation; or

- 
- ii. send as early as possible, and in any case, at least six business days prior to the solicitation closing date and time, (in order to ensure a response), an email that includes the bid solicitation number to the specified PWGSC Bid Receiving Unit requesting to open an epost Connect conversation. Requests to open an epost Connect conversation received after that time may not be answered.
  - c. If the Bidder sends an email requesting epost Connect service to the specified Bid Receiving Unit in the bid solicitation, an officer of the Bid Receiving Unit will then initiate an epost Connect conversation. The epost Connect conversation will create an email notification from Canada Post Corporation prompting the Bidder to access and action the message within the conversation. The Bidder will then be able to transmit its bid afterward at any time prior to the solicitation closing date and time.
  - d. If the Bidder is using its own licensing agreement to send its bid, the Bidder must keep the epost Connect conversation open until at least 30 business days after the solicitation closing date and time.
  - e. The bid solicitation number should be identified in the epost Connect message field of all electronic transfers.
  - f. It should be noted that the use of epost Connect service requires a Canadian mailing address. Should a bidder not have a Canadian mailing address, they may use the Bid Receiving Unit address specified in the solicitation in order to register for the epost Connect service.
  - g. For bids transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:
    - i. receipt of a garbled, corrupted or incomplete bid;
    - ii. availability or condition of the epost Connect service;
    - iii. incompatibility between the sending and receiving equipment;
    - iv. delay in transmission or receipt of the bid;
    - v. failure of the Bidder to properly identify the bid;
    - vi. illegibility of the bid;
    - vii. security of bid data; or,
    - viii. inability to create an electronic conversation through the epost Connect service.
  - h. The Bid Receiving Unit will send an acknowledgement of the receipt of bid document(s) via the epost Connect conversation, regardless of whether the conversation was initiated by the supplier using its own license or the Bid Receiving Unit. This acknowledgement will confirm only the receipt of bid document(s) and will not confirm if the attachments may be opened nor if the content is readable.
  - i. Bidders must ensure that that they are using the correct email address for the Bid Receiving Unit when initiating a conversation in epost Connect or communicating with the Bid Receiving Unit and should not rely on the accuracy of copying and pasting the email address into the epost Connect system.
  - j. A bid transmitted by epost Connect service constitutes the formal bid of the Bidder and must be submitted in accordance with section 05.

## **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 in the bid solicitation.

### **2.2.1 epost Connect**

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Unless specified otherwise in the bid solicitation, bids may be submitted by using the epost Connect service provided by Canada Post Corporation.

([https://www.canadapost.ca/web/en/products/details.page?article=epost\\_connect\\_send\\_a](https://www.canadapost.ca/web/en/products/details.page?article=epost_connect_send_a))

The email address of PWGSC Quebec region Bid Receiving Unit is:

[TPSGC.RQReceptionSoumissionsQRSupplyTendersReception.PWGSC@tpsgcpwgsc.gc.ca](mailto:TPSGC.RQReceptionSoumissionsQRSupplyTendersReception.PWGSC@tpsgcpwgsc.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.**

**2.2.2** Tenders can also be transmitted by fax to 418-648-2209.

**2.2.3** By mail or in person at:

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

## **2.3 Enquiries - Solicitation Period**

All enquiries must be submitted in writing to the Contracting Authority at [vincent.deblois@tpsgc-pwgsc.gc.ca](mailto:vincent.deblois@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 Improvement of Requirement During Solicitation Period (2007-05-25) A9076T**

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 7 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

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## **2.5 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 \_\_\_\_\_ (*insert the name of the province or the territory if different than in Québec*)

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.

## **2.6 Proposed Work Period**

Work is to commence and be completed as follows:

**Start date:** Contract award date.

**End date:** On or before: Twelve (12) weeks after contract award.

1. All deliverables must be ready to be shipped (docks fabricated, all accessories and anchoring system acquired and stored with the docks). All accessories and anchoring system may not be installed to facilitate transportation, but must be installed at destination.
2. All deliverables must be stored by the Contractor from contract award up to the delivery at destination.

The Bidder agrees through submission of its response to the bid solicitation that the above time frame provides an adequate period to perform the subject work.

## **2.7 List of Proposed Sub-contractors**

If the bid includes the use of subcontractors, the Bidder agrees, upon written request from the Contracting Authority, to provide a list of all subcontractors including a description of the things to be purchased, a description of the work to be performed by specification section and the location of the performance of that work. The list should not include the purchase of off-the-shelf items, software and such standard articles and materials as are ordinarily produced by manufacturers in the normal course of business, or the provision of such incidental services as might ordinarily be subcontracted in performing the Work, i.e. subcontract work valued at less than \$2000.00.



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## **PART 3 – BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

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

- Section I: Technical Bid
- Section II: Financial Bid
- Section III: Certifications Requirements
- Section IV : Additional information

**If the Bidder chooses to submit its bid on hard copy format, Canada requests that bidders provide their bid in separately bound sections as follows:**

- Section I : Technical Bid (two (2) hard copy)
- Section II : Financial Bid (one (1) hard copy)
- Section III : Certifications Requirements (one (1) hard copy)
- Section IV : Additional information (one (1) hard copy)

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

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

**Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.**

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>) . 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.

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### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they meet the mandatory requirements listed under Annex A – Mandatory Requirements. The Management Bid should be concise and should include all the certifications and other requirements.

### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet Annex B. The total amount of Goods and Services Tax or Harmonized Sales Tax is to be shown separately, if applicable.

### **Section III: Certification Requirements**

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

### **Section IV: Additional information**

Insert any supplementary information, if required.

#### **3.2 Exchange Rate Fluctuation (2013-11-06) C3011T**

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

## **PART 4 – EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

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

#### **4.1.1. Evaluation – Technical proposition**

The bidder must clearly demonstrate with his proposal that it is compliant with the requirements of the Annex A Statement of Requirement.

The bidder must provide the required information in accordance with Annex A, including references to the proof of compliance provided; the tenderer should indicate the exact location of the information, including the title of the documents, as well as the page and paragraph numbers. Proof of compliance must provide sufficient detail and explanation to allow for a full assessment and demonstrate that each of the Mandatory Technical Criteria is compliant.

Canada will not evaluate information such as referrals to websites where additional can be found, or technical manuals or brochures that do not accompany the bid.

Notwithstanding deliverable requirements specified anywhere else within this solicitation and its associated Technical Specification, the following are the only mandatory deliverables that must be submitted with the Bid at the time of bid closing. The following are mandatory and the Bidder must be compliant on each item to be considered responsive

Item	Description	Completed and Attached
1	Signed Proposal of the bidder	
2	Completed Annex B (B1 et B2) - Financial Bid presentation Sheet	

#### **4.1.1.1 Other information upon request only**

The following information, which supports the bid, may be requested by the Contracting Authority from the bidder and it must be provided within **two (2)** working days of the written request:

Item	Description	
1	Proof of welding certification, as per clause 6.2 and clause 7.6.2	Prior to contract award
2	Sub-contract and Sub-contractor list, as per section 2.7	Prior to contract award
3	List of Directors and Owners of the bidder (See annex C)	Prior to contract award
4	Certification as per section 5 of this call for tender	Prior to contract award

#### **4.1.1.2 Deliverables after Contract award**

Item	Description	After contract award
1	Work Schedule and Reports (Gantt chart) as per section 6.4	5 calendar days after contract award
2	Trials reports as per clause 1.5 of the statement of work	Prior to start of work
3	Drawings and data sheets of the components of the floating docks <ul style="list-style-type: none"><li>- Material to be used for mounting</li><li>- Galvanized steel hardware</li><li>- Galvanized steel components</li><li>- Trials reports other than those requested at paragraph 1.5 of the Statement of Requirements</li></ul>	2 calendar days after a request from the Contracting authority

#### **4.1.2 Financial Bid**

Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet at Annex "B (B1 and B2)".

**Firm price must be provided for each items.**

Prices used for evaluation purposes will be the total cost obtained as follows:

- The total cost is the sum of the calculated prices
- The calculated prices is the quantity multiplied by the firm unit price
- The firm unit prices must be in Canadian funds, Applicable Taxes excluded, Delivered Duty Paid (DDP) to destinations Incoterms 2000 (Transport cost included), Customs Duties included for each item offered.

##### **4.1.2.1 Evaluation of Price - Canadian / Foreign Bidders (2014-06-26) A0222T**

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.

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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. Although Canada reserves the right to award the Contract either on an FOB plant or FOB destination, Canada requests that bidders provide prices FOB their plant or shipping point and FOB destination. Bids will be assessed on an FOB destination basis.
  4. 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.

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## **PART 5 – CERTIFICATIONS**

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**

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards as per section 4. 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.

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

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

#### **5.1.2 Federal Contractors Program for Employment Equity - Bid Certification**

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website (<https://www.canada.ca/en/employment-socialdevelopment/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.

#### **5.1.3 List of Directors and Owners of the bidder**

The bidder has to provide the list of all the directors and owners of the bidder (See 4.1.1.2 and Annex C).

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## **PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS**

### **6.1 Welding Certification**

Welding must only be undertaken by a company Certified by the Canadian Welding Bureau (CWB) to the requirements of the following Canadian Standards Association (CSA) standards:

- (a) CSA W47.1, Certification of Companies for Fusion Welding of Steel, section 2;
- (b) CSA W47.2, Certification of companies for fusion welding of aluminum;
- (c) CSA W59, Welded steel construction (metal arc welding); and
- (d) CSA W59.2, Welded aluminum construction.

In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.

Before the commencement of any fabrication work, and upon request from the Inspection Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel intended to be used in the completion of the work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB welding certification.

### **6.2 Trade Qualifications**

The Contractor must use qualified, certificated (if applicable) and competent tradespeople and supervision to ensure a uniform high level of workmanship. The Inspection Authority may request to view and record details of the certification and/or qualifications held by the Contractor's tradespeople. This request should not be unduly exercised but only to ensure qualified tradespeople are on the job.

### **6.3 Work Schedule and Reports**

No later than **five (5)** calendar days after contract award, the preliminary schedule must be revised and expanded as necessary and resubmitted before commencement of the Work.

The bidder must provide a detailed work schedule showing the commencement and completion dates for the Work in the available work period, including realistic target dates for significant events. During the Work Period the schedule is to be reviewed on an ongoing basis by the Inspection Authority and the Contractor, updated when necessary, and available in the Contractor's office for review by Canada's authorities to determine the progress of the Work.

Production work schedules must be revised and resubmitted before each Progress Meeting. The revised schedules must show the effect of progressed work. Changes in scheduled completion dates due to unscheduled work will not be accepted except as negotiated under Design Change or Additional Work, Article 26.

### **6.4 Environmental Protection**

Upon written request from the Contracting Authority, the Bidder must submit details of its environmental emergency response plans, waste management procedures and/or formal environmental training undertaken by its employees.

## **PARTIE 7 – RESULTING CONTRACT CLAUSES**

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

### **7.1 Security Requirement**

There is no security requirement associated with this Statement of Work.

### **7.2 Requirement**

The requirement is to manufacture of CCA wooden floating docks and accessories for fishing harbours in the Gaspesia and Magdalen Island Region as detailed in the Requirement attached at Annex A of this call for tender, including but not limited to:

4. The supply of material and labor to manufacture floating docks of steel galvanized and aluminium accessories, as per the Statement of Requirements and the drawings attached.
5. The supply of materials and specialized labor for the application of a 3 mm polyuria membrane on floating docks of lot 1, 2 and 3, all according to drawings and specifications attached.
6. The delivery of floating docks and accessories to the fishing harbour of St-Thérèses-de-Gaspé in the Gaspesia region for lots 1 and 2, and the fishing harbour of Cap-aux-meules in the Magdalen Islands for lot 3, as indicated in the specifications and drawings attached.

*In case of differences, text from the Statement of Requirement will prevail*

### **7.3. 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 issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website: <http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>.

#### **7.3.1 General Conditions**

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

### **7.4 Term of contrac**

#### **7.4.1 Period of the Contract**

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

#### **7.4.2 Work period and Delivery Date**

Work is to commence and be completed as follows:

Start: Contract award date.

End: All the deliverables must be received on or before: twelve (12) weeks after contract award.

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1. All deliverables must be ready to be shipped (docks fabricated, all accessories and anchoring system acquired and stored with the docks). All accessories and anchoring system may not be installed to facilitate transportation, but must be installed at destination.
  2. All deliverables must be stored by the Contractor from contract award up to the delivery at destination.

The Contractor agrees that the above time frame provides an adequate period to perform the subject work; and further, that it has sufficient material and human resources allocated or available to complete the subject work within the Work Period.

#### **7.4.3 Work Schedule and Reports**

No later than **Five (5) calendar days** after contract award, the preliminary schedule must be revised and expanded as necessary and resubmitted before commencement of the Work.

The Contractor must provide a detailed work schedule showing the commencement and completion dates for the Work in the available work period, including realistic target dates for significant events. During the Work Period the schedule is to be reviewed on an ongoing basis by the Inspection Authority and the Contractor, updated when necessary, and available in the Contractor's office for review by Canada's authorities to determine the progress of the Work.

Production work schedules must be revised and resubmitted before each Progress Meeting. The revised schedules must show the effect of progressed work. Changes in scheduled completion dates due to unscheduled work will not be accepted.

#### **7.4.4 Meetings**

Progress meetings, chaired by the Contracting Authority, will take place at the Contractor's facility as and when required, generally once a month. Interim meetings may also be scheduled. Contractor attendees at these meetings will, as a minimum, be its Contract (Project) Manager, Production Manager (Superintendent) and Quality Assurance Manager. Progress meetings will generally incorporate Technical meetings to be chaired by the Technical Authority.



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## **7.5. Authorities**

### **7.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Vincent DeBlois  
Supply Specialist  
Public Works and Government Services Canada  
Eastern Quebec Directorate  
Address: 601-1550 D'Estimauville  
Telephone: 418-649-2712  
Facsimile: 418-648-2209  
E-mail address: [vincent.deblois@pwgsc-tpsgc.gc.ca](mailto:vincent.deblois@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.

### **7.5.2 Project manager/Technical Authority**

The Technical Authority for the Contract is:

*Name will be determined at Contract award*

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 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.

(See also section 1.4 of the Statement of Requirements)

### **7.5.3 Inspection Authority/Inspector**

The Inspection Authority for the Contract is:

See section 7.5.2

The Inspection Authority is the representative of the department or agency for whom the Work is being carried out under the Contract, who for the purposes of this requirement is the inspector responsible for inspection of the work and acceptance of the finished work under this requirement. The Inspection Authority will be represented on-site by a designated inspector and such other Government of Canada inspectors who will from time to time be assigned in support of the designated Inspector.

#### **7.5.4 Contractor's representative**

The Technical Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

#### **7.6 Certifications, trade qualification and licensing**

##### **7.6.1 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.

##### **7.6.2 Welding certifications**

Welding must only be undertaken by a company Certified by the Canadian Welding Bureau (CWB) to the requirements of the following Canadian Standards Association (CSA) standards:

- (a) CSA W47.1, Certification of Companies for Fusion Welding of Steel, section 2;
- (b) CSA W47.2, Certification of companies for fusion welding of aluminum;
- (c) CSA W59, Welded steel construction (metal arc welding); and
- (d) CSA W59.2, Welded aluminum construction.

In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.

Before the commencement of any fabrication work, and upon request from the Inspection Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel intended to be used in the completion of the work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB welding certification. (Reference: Statement of Requirements Paragraph 1.2)

##### **7.6.3. Trade Qualifications**

The Contractor must use qualified, certificated (if applicable) and competent tradespeople and supervision to ensure a uniform high level of workmanship. The Inspection Authority may request to view and record details of the certification and/or qualifications held by the Contractor's tradespeople. This request should not be unduly exercised but only to ensure qualified tradespeople are on the job.

##### **7.6.4. Licensing**

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the work to be performed under any applicable federal, provincial or municipal legislation. The

Contractor is responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor must provide a copy of any such permit, license or certificate to Canada.

#### **7.7 Insurance Requirements**

The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements will not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible to decide if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage will be at the Contractor's expense, and for its own benefit and protection.

The Contractor must, if requested by the Contracting Authority, forward a Certificate of Insurance including details of the insurance coverage, exclusions, deductibles and conditions and confirming that the insurance policy complying with the requirements is in force. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

#### **7.8 Shipping instructions – Delivery at destination**

Goods must be consigned to the destination specified in the Contract and delivered Delivered Duty Paid (DDP) at destination (see Annex B1 and B2), Incoterms 2000.

See also section 3.5.3 of the Statement of Requirement.

#### **7.9 Payment**

##### **7.9.1 Basis of Payment - Firm Price**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm price indicated in Annex B (B1 and B2). Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

##### **7.9.2 Exchange Rate Fluctuation (2013-11-06) C3011T**

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

##### **7.9.3 Taxes - Foreign-based Contractor (2007-11-30) C2000C**

SACC Manual Clause C2000C (2007-11-30), Taxes – Foreign based Contractor.

##### **7.9.4 Limitation of price (2017-08-17) C6000C**

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.

##### **7.9.5 Multiple Payments (2008-05-12) H1001C**

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.

## **7.10 Invoice**

### **7.10.1 Invoicing Instructions (2008-12-12) H5001C**

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. Invoice to be made to the name of: :

[REDACTED]

Point of contact;

Attn : [REDACTED]

[REDACTED]

AND

[REDACTED]

Electronic copy to be sent for verification to: [vincent.deblois@tpsgc-pwgsc.gc.ca](mailto:vincent.deblois@tpsgc-pwgsc.gc.ca)

### **7.10.2 Electronic Payment of Invoices - Contract (2016-01-28) H3027C**

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);

## **7.11. Applicable Laws**

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

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**7.12. Priority of Documents**

If there is a discrepancy between the wordings 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) General conditions: Goods (medium complexity) (2018-06-21) 2010A)
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (h) the Contractor's bid dated \_\_\_\_\_.

Solicitation No – N° de l'invitation  
F3731-180141/A  
Client Ref No. – N° de réf. du client  
F3731-180141

Amd. No. – N° de la modif.  
File No. – N° du dossier  
QCV-8-41236

Buyer ID – id de l'acheteur  
qcv 004

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## **ANNEX A - STATEMENT OF REQUIREMENT**

See electronic Annex.

**ANNEX B1 - BASIS OF PAYMENT – Delivery at Sainte-Thérèse-de-Gaspé in Gaspésie**

**The Bidder must bid firm unit prices in Canadian funds, Applicable Taxes excluded, Delivered Duty Paid (DDP) destination - Incoterms 2000, Customs Duties included for each item offered**

UNIT PRICES TABLE: This table is the unit prices and lump sum price table used for this contract.					
Item	Description	Unit of issue	Total quantity	Unit price	Total – Firm price
1	Fabrication of Floating Dock				
1.1	Lot 1 - L’Anse-à-Beaufils	unit	21	_____ \$	_____ \$
1.2	Lot 2 - Ste-Thérèse-de-Gaspé	unit	15	_____ \$	_____ \$
2	Fabrication of Galvanized Steel and Aluminum Components				
1.1	Lot 1 - L’Anse-à-Beaufils	Lump Sum	1	_____ \$	_____ \$
1.2	Lot 2 - Ste-Thérèse-de-Gaspé	Lump Sum	1	_____ \$	_____ \$
3	Transport, Insurance, Customs Duties, Handling, and other related costs				
3.1	Lot 1 & 2 - Ste-Thérèse-de-Gaspé - <b>All costs included - DDP destination – Incoterms 2000</b>	Lump Sum	1	_____ \$	_____ \$
	Note : The unit price column and the total price column shall be filled for each item.				
	TOTAL AMOUNT FOR ANNEX B1				_____ \$
Delivery to Sainte-Thérèse-de-Gaspé in Gaspésie Firm unit prices in Canadian funds, Applicable Taxes excluded, Delivered Duty Paid (DDP) destination -Incoterms 2000, Customs Duties included					

**Remark to Bidders:**

Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.

## ANNEX B2 - BASIS OF PAYMENT – Delivery at Cap-aux-Meules

**The Bidder must bid firm unit prices in Canadian funds, Applicable Taxes excluded, Delivered Duty Paid (DDP) destination - Incoterms 2000, Customs Duties included for each item offered**

UNIT PRICES TABLE: This table is the unit prices and lump sum price table used for this contract					
Item	Description	Unit of issu	Total quantity	Unit price	Total firm price
1	Fabrication of Floating Dock				
1.3	Lot 3 - Cap-aux-Meules	unit	4	_____ \$	_____ \$
2	Fabrication of Galvanized Steel and Aluminum Components				
2.3	Lot 3 - Cap-aux-Meules	Lump Sum	1	_____ \$	_____ \$
3	Transport, Insurance, Customs Duties, Handling, and other related costs				
	Lot 3 - Cap-aux-Meules All costs included - DDP destination – Incoterms 2000	Lump Sum	1	_____ \$	_____ \$
	Note : The unit price column and the total price column shall be filled for each item.				
	TOTAL AMOUNT FOR ANNEX B2				_____ \$
Delivery to Cap-aux-Meules Firm unit prices in Canadian funds, Applicable Taxes excluded, Delivered Duty Paid (DDP) destination - Incoterms 2000, Customs Duties included					

### Summary :

Delivery at Sainte-Thérèse-de-Gaspé en Gaspésie (Annex B1)	Delivery at Cap-aux-Meules (Annex B2)	Total cost for evaluation purposes (Annex B1 + B2)
_____ \$	_____ \$	_____ \$

#### Remark to Bidders:

Canada may reject the bid if any of the prices submitted do not reasonably reflect the cost of performing the part of the work to which that price applies.



Buyer ID – id de l'acheteur  
qcv 004

**NOTE TO BIDDERS**  
**WRITE DIRECTOR'S AND OR OWNERS SURNAMES AND GIVEN NAMES**

[illegible]



**Part 1 General**

**1.1 SCOPE OF WORK**

- .1 This list of work is not necessarily complete and does not relieve the Contractor of their responsibility for executing any other work, change or modification required in addition of those listed herein, at the satisfaction of the Departmental Representative.
- .2 Manufacture of CCA wooden floating docks and accessories for fishing harbours in the Gaspesia and Magdalen Island Region comprises, but is not limited to:
  - .1 Supply of material and labor for manufacture of floating docks and steel galvanized and aluminum accessories in accordance to details and quantities indicated in drawings
  - .2 Supply of materials and specialized labor for the application of 3mm polyurea membrane on floating docks of lot 1, 2 and 3, all according to drawings and specifications.
  - .3 Delivery of floating docks and accessories to the fishing harbour of Sainte-Thérèse-de-Gaspé in the Gaspesia Region for lots 1 and 2 and the fishing harbour of Cap-aux-Meules in the Magdalen Islands for lot 3, as indicated in specs and drawings.

**1.2 REFERENCES**

- .1 Canadian Standards Association (CSA International)
  - .1 CAN/CSA G40.20/G40.21, General Requirements for Rolled or Welded Structural Quality Steel/Structural Quality Steel.
  - .2 CAN/CSA O80, Wood preservation.
  - .3 CSA W47.1, Certification of Companies for Fusion Welding of Steel Structures.
  - .4 CSA W47.2 Fusion welding of aluminum company certification
  - .5 CSA W48, Filler Metals and Allied Materials for Metal Arc Welding.
  - .6 CSA W59, Welded Steel Construction (Metal Arc Welding).
  - .7 CSA W59.2, Welded Aluminum Construction
- .2 All items which are part of the fabrication of steel components shall be designed and built in compliance with current codes and standards, including Standard CAN/CSA-G40.20 General Requirements for Rolled or Welded Structural Quality Steel and G40.21, Structural Quality Steel
- .3 The Contractor shall be responsible for referring to all codes and standards applicable to the different construction elements and related materials. The Contractor shall comply with the latest edition and revision of all American Society for Testing and Materials International (ASTM) and Canadian Standards Association (CAN/CSA) documents and other applicable standards

### **1.3 WORK EXTENT**

- .1 Work included in this project comprises the supply of all material, labour, tools, equipment, protection and transportation required for fabricating and completing work in compliance with the requirements stated herein.
- .2 Co-ordination and allocation of work among subcontractors is the sole responsibility of the General Contractor and no reference to subcontractors in these documents shall be construed as binding Department of Fisheries and Oceans with respect to any such allocation.

### **1.4 WORK SEQUENCE**

- .1 Construct Work in stages, and if possible, as directed by Departmental Representative.
- .2 Coordinate Progress Schedule with Departmental Representative.
- .3 Sequence activities to limit exposure of partially constructed work to waves, ice and snow storms. Damages to new structures, partially constructed or approved, prior to substantial completion, due to Contractor or subcontractor operations, shall be repaired by Contractor at no additional cost for Departmental Representative.

### **1.5 QUALITY ASSURANCE**

- .1 Trial reports: submit trial reports certifying that products, materials and equipment meet the specifications in terms of physical characteristics and performance criteria.
  - .1 Mill test reports to show chemical and physical properties of steel and aluminum.

### **1.6 QUALITY CONTROL**

- .1 The Departmental Representative will be responsible for obtaining services from independent trial and inspection firms.
  - .1 Welding works shall be done in accordance with drawings and specifications and in conformity with the requirements of CSA W59 Welded Steel Construction (Metal Arc Welding) and CSA W59-2 Welded Aluminum Construction. The respect of welding procedures will be checked during fabrication. Weldings will be inspected according to article 12 of CAN/CSA W59. The fillet welds will be inspected visually and by magnetic particles. Complete penetration weldings will be inspected visually and by magnetic particles.
- .2 Work performed by trial and inspection firms does not relieve the Contractor from their responsibility to execute work in compliance with contract document requirements.
- .3 Build up safe access and working areas for testing on site.
- .4 Remove defective or deemed non-compliant with the contract documents and rejected by the inspection firm or Departmental Representative, either because they were not conducted according to the rules of the art, either because they were made of materials or defective products or they not comply with Specs or drawings requirements. Replace or repair components as required by the contract documents.

## **1.7 TRANSPORTING, STORING AND HANDLING**

- .1 Packing, Shipping, Handling and Unloading:
  - .1 Deliver, store, handle and protect materials.
  - .2 Handle steel pieces so as to avoid permanent deformations.
  - .3 Handle with care steel pieces that have received a special coating.
- .2 Storage and Protection:
  - .1 Leave protective covering in place until final cleaning of building. Provide instructions for removal of protective covering.
  - .2 Handle carefully all materials to prevent scratching, cracking, flaking, twisting and other types of damage. While waiting for adhesives usage, the resins and their catalysts and curing agents, shall be stored in a dry warehouse with a temperature between 21 and 29 degrees C (70 and 85 degrees Fahrenheit).

## **1.8 MEASUREMENT METHOD**

- .1 Item n° 1 – Floating Docks Manufacture
  - .1 This item will be measured as a unit and includes equipment, material and labour for the manufacture of floating docks.
    - .1 The item is divided as follows:
      - .1 Floating Docks Manufacture
        - .1 Lot 1 – L’Anse-à-Beaufils
        - .2 Lot 2 – Sainte-Thérèse-de-Gaspé
        - .3 Lot 3 – Cap-aux-Meules
      - .2 The Contractor shall consider in the preparation of his bid that floating docks of lots 1, 2 and 3 are built using expanded polystyrene billets, all according to the indications on drawings and specifications
- .2 Item n° 2 – Steel Galvanized and Aluminum Components Manufacture
  - .1 This item will be measured as a lump sum price and includes equipment, material and labour for the fabrication of steel and aluminum components, as well as galvanizing of steel components
  - .2 Supply of hardware to attach floating docks to each other, including bolts, HDPE washers and safety pins, as indicated on drawings and quantities indicated below
  - .3 Item also includes partial or total installation of steel or aluminum components, as indicated on drawing and next:
    - .1 The item is divided as follows:
      - .1 Lot 1 – L’Anse-à-Beaufils
      - .2 Lot 2 – Sainte-Thérèse-de-Gaspé
      - .3 Lot 3 – Cap-aux-Meules
    - .2 Lot 1 includes manufacture and installation of floating docks fastening systems (T1,T2, T3 and T4 kit) and overlap plates (T14), supply of accessories of fastening system (bolt, washers, HDPE washers, nut and

Beta safety pin) and only supply and galvanizing of the following extra components:

- .1 Twenty (20) T19 cleats
- .2 Two (2) T23 landing plate
- .3 Two (2) special fastening kit (T8, T9, T3 et T4)
- .4 Thirteen (13) strong arm fastening kit (T11, T12 et T13)
- .3 Lot 2 includes manufacture and installation of floating docks fastening system (T1,T2, T3 and T4 kit) and overlap plates (T14), supply of accessories of fastening system (bolt, washers, HDPE washers, nut and Beta safety pin) and only the supply of the following extra components:
  - .1 Twenty (20) T19 cleats.
  - .2 One (1) T23 landing plate
- .4 Lot 3 includes manufacture and installation of floating docks fastening system (T1,T2, T3 and T4 kit) and overlap plates (T14), supply of accessories of fastening system (bolt, washers, HDPE washers, nut and Beta safety pin) and only the supply and galvanization of the following extra components:
  - .1 Forty (40) T20 gangway brackets
  - .2 Fifteen (20) T5 strong arm brackets #1
  - .3 Ten (10) T17 strong arm brackets #2
  - .4 Ten (10) T1/T2/T3 and T4 floating docks fastening system
  - .5 Twenty (20) T19 cleats,
  - .6 Ten (10) T16 strong arms,
  - .7 Ten (10) accessories for floating docks fastening system (bolt, washers, HDPE washers, nut and Beta safety pin).
- .3 Item n° 3 – Transportation
  - .1 The item will be measured as a global unit and include transportation and unloading of components of lots 1 and 2 at the fishing harbour of Ste-Thérèse-de-Gaspé in the Gaspesia Region and lot 3 at the fishing harbour of Cap-aux-Meules in the Magdalen Islands.
  - .2 The item is divided as follows:
    - .1 Lot 1 & 2 – Sainte-Thérèse-de-Gaspé
    - .2 Lot 3 – Cap-aux-Meules

## **Part 2 Products**

### **2.1 MATERIALS**

- .1 Steel:
  - .1 Structural steel: in accordance with Standard CAN/CSA-G40.20/G40.21, Shade 350W or as per specifications.
  - .2 Welding materials: in accordance with Standard CSA W59 and approved by the Canadian Welding Bureau.

- .3 Welding electrodes: in accordance with Series CSA W48 standards.
- .4 Hot dip galvanizing: as per indications, galvanized steel elements in accordance with CAN/CSA-G164, with minimum zinc coating of 600 g/m<sup>2</sup> or with ASTM A123/123M, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Production.
  - .1 Galvanize the various parts in accordance with the following rates:
    - .1 Bolts and nuts: 460 g/m<sup>2</sup>;
    - .2 Section, plates and rods: 705 g/m<sup>2</sup>
- .5 All mechanical bolts, lag screw, drift bolt and nails shall be galvanized, medium grade steel in accordance with ASTM A-307, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength.
- .6 Mechanical bolts, lag screw and drift bolt will have forged heads.
- .7 Lag-screw to be threaded
- .8 The lag-screw holes must conform to the following:
  - .1 The pilot hole for the bolt core must be the same diameter as the bolt core and the same height as the bolt core length without the thread.
  - .2 The diameter of the pilot hole for the threaded portion must be 60 to 75 percent of the diameter of the bolt core for the length equal to the threaded portion of the bolt.
  - .3 The threaded portion of the screw must be inserted into the pilot hole by turning the screw with a wrench and not by using a hammer.
  - .4 Soap or any other lubricant that is not petroleum based may be used on the screw or in the pilot hole in order to facilitate insertion and prevent damage to the screw.
- .2 Aluminum:
  - .1 Corrosion resistant aluminum type (minimum service life of thirty years) 6061-T6 or 6005-T5-type or approved equivalent, extruded.
  - .2 Welding work in accordance with CAN/CSA-W59.2 and CAN/CSA-W47.2
- .3 Wood:
  - .1 The spruce, jack pine and eastern hemlock will meet the requirements of the latest standard grading rules of the "Eastern Spruce Grading Committee" approved and published by the Canadian Lumbermen's Association, the Quebec Lumber Manufacturers Association and the "Maritime Lumber Bureau," with the exception of the balsam fir which will not be accepted although it is mentioned in rule No. 1 due to its poor resistance.
  - .2 All wood varieties will be in compliance with the requirements of the NLGA (National Lumber Grades Association) entitled "Standard Grading Rules for Canadian Lumber."
  - .3 Wood grade to be No1 or Standard in compliance with the requirements of the NLGA (National Lumber Grades Association)
  - .4 All wood used in the construction of the embankment will be treated with pressurized ACC in accordance with CAN/CSA-O80-M, except for ballast floor.

Retention to be 24 kg/m<sup>3</sup> as required for marine application in accordance with requirements.

- .5 Timber over 64 mm thick must be incised, all according to Article 9.8 of the CSA O80.
- .6 The wood will be double end trimmed at a right angle before treatment following standard NLGA 748-B.
- .7 All material treated under pressure requiring cutting, in order to be adjusted, will be coated, while dry, with three (3) layers of preservative as is required in standard CAN/CSA-080-M. All holes in timber pieces will be treated in this fashion.
- .8 Each piece of lumber to be identified by CSA O322 certified stamp.

.4 Buoyancy billets

- .1 Buoyancy billets to be high density expanded polystyrene (20 psi minimum compressive applied load) and with a minimum buoyancy force of 276 kg / billet.

.5 Polyurea

- .1 Urethane protective coatings (polyurea) compatible with an application on an expanded polystyrene substrate (Styrofoam billets)
- .2 Application of a 3 mm layer, according to the manufacturer's instructions.
- .3 Color: Black
- .4 Surface preparation shall be executed prior to application, as indicated on drawings, in order to fill void between billets rows and create an uniform face, in accordance to manufacturer's instructions.
- .5 The ends of the polyurea membrane shall be protected against breakage or delamination with galvanized flat strip.

**2.2 SHAPING**

- .1 The construction steel elements shall be shaped in compliance with Standards CAN/CSA-S16, CAN/CSA-S136 and as indicated on verified engineering drawings.
- .2 Continuously seal members by continuous welds where indicated. Grind smooth.
- .3 Where possible, works to be adjusted and built in shop, and delivered ready to fix.

**2.3 FINISHING**

- .1 All steel elements shall be hot dip galvanized and not painted.

**Part 3 Execution**

**3.1 GENERAL**

- .1 Fabricate structural steel in accordance with CAN/CSA-S16 and CAN/CSA-S136.
- .2 Execute welding works in compliance with Standard CSA W59 and CSA W59.2.
- .3 Welding companies shall be certified as per Division 1 of CAN/CSA W47.1 on fusion welding of steel, W47.2 on fusion welding of aluminum and CAN/CSA W55.3 on resistance welding of steel and aluminum.

### **3.2 GALVANIZATION**

- .1 Surface preparation of items to be hot dip galvanized with:
  - .1 Sand blasting to SSPC-10.
  - .2 Acid cleaning
- .2 Clean and prepare surfaces so the zinc coating adheres perfectly.
- .3 Parts shall be completely fabricated before being galvanized. The galvanizing bath must be large enough to allow galvanizing parts in a single immersion.
- .4 Galvanizing shall be by hot immersion to obtain an even and unbroken zinc coating for full protection of steel after assembly.
- .5 Welding after galvanization shall not be accepted.
- .6 Galvanize parts as follows:
  - .1 Nuts and bolts: 460 g/m<sup>2</sup>;
  - .2 Steel sections, plates and bars: 705 g/m<sup>2</sup>.
- .7 The manufacturer shall take all the necessary steps to prevent fragilization, warpage or deformation during galvanization. It is recommended to follow the method prescribed in Standards ASTM-A143, ASTM-A384 and ASTM A123/123M
- .8 Deformed or warped parts shall be rejected unless they can be straightened by the manufacturer so neither the part or galvanizing is left damaged.
- .9 The manufacturer shall carry out trials in order to determine the quality of adherence and repair of the zinc coating, as stated in Standard A123/123M.

### **3.3 ERECTION**

- .1 Allowable bolt hole tolerances:
  - .1 Bolt holes shall be drilled in a manner that will allow free passing at right angle of a fitting template of 2-millimetre diameter smaller than the hole.
  - .2 Unless otherwise indicated by the departmental representative, finished hole diameters shall not be more than 2 millimetres larger than the bolts planned to be used.
  - .3 Centres between two (2) holes of a same group shall not vary by more than one (1) millimetre of the distance between these two (2) holes.

### **3.4 FLOATING DOCKS CONSTRUCTION**

- .1 Build floating docks made of treated wood to required dimensions and in accordance with drawings.
- .2 All wood pieces will be of one length.
- .3 Notches, holes and chamfers to be treated using an equivalent preservative product prior to wood pieces installation.



- .4 To prevent damage, protect buoyancy billets during construction and handling.
- .5 Floating docks will not be deposited directly on the ground. They will have to be supported by wood pieces and to be levelled.
- .6 Erect Work accurately, level, plumb straight, line up and adjusted with precision, joints and crossing well fixed.
- .7 Where possible, works to be adjusted and built in shop, and delivered ready to fix.

### **3.5 FIELD QUALITY CONTROL**

- .1 Site Tests/Inspections:
  - .1 Provide Departmental Representative with minimum of 10 days notice of date of beginning Work on floating docks and provide access to Work for inspection.
  - .2 Floating docks constructed in whole or in part without inspection will not be accepted.
  - .3 Final inspection of floating docks will be made in place and will consist of, but not limited to, the following:
    - .1 Condition of structural components
    - .2 Presence and conformity of fasteners
    - .3 Fastening compliance of galvanized steel components

**END OF SECTION**