



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Temp. Building & Assocd. Utilities	
Solicitation No. - N° de l'invitation 23240-180538/A	Date 2017-09-01
Client Reference No. - N° de référence du client 23240-180538	
GETS Reference No. - N° de référence de SEAG PW-\$\$HL-654-73365	
File No. - N° de dossier hl654.23240-180538	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-10-16	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: MacLeod, Bobbi	Buyer Id - Id de l'acheteur hl654
Telephone No. - N° de téléphone (873) 469-3354 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Fuel & Construction Products Division
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

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

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TITLE RIGID WALL SHELTER

PART 1 - GENERAL INFORMATION

1. Requirement

The requirement is detailed under Annex B "Basis of Payment" in accordance with the Statement of Work at Annex A.

2. Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

3. Trade Agreements

This requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-Chile Free Trade Agreement (CCFTA), the Canada-Peru Free Trade Agreement (CPFTA), the Canada-Colombia Free Trade Agreement and the Canadian Free Trade Agreement (CFTA).

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PART 2 - BIDDER INSTRUCTIONS

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 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 90 days

1.1 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
B1000T	Condition of Material - Bid	2014-06-26

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.

3. Enquiries – Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

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5. Mandatory Bidders' Conference

A mandatory bidders' conference will be held in Gatineau, Quebec at PSPC's facility located at 11 Laurier Road, on September 15, 2017, 09:00 hrs local time. It is mandatory that the Bidder attend this conference. The scope of the requirement outlined in the bid solicitation will be reviewed and questions will be answered.

Bidders should communicate with the Contracting Authority before the conference to confirm attendance. Bidders should provide, in writing, to the Contracting Authority, the names of the person(s) who will be attending and a list of issues they wish to table at least two (2) working days before the scheduled conference. Bidders will be required to sign an attendance form. Bidders must review and sign a non-disclosure agreement before being granted entry to the bidders' conference. Bidders may not delegate or assign participation at this conference to non-employees of the firm preparing the bid. No other documentation will be provided to bidders in advance of the bid submission date.

Any clarifications or changes to the bid solicitation resulting from the bidders' conference will be included as an amendment to the bid solicitation.

Bidders who do not attend or send a representative will not be given an alternative appointment and their bids will be rejected as non-compliant.

6. Best Delivery Date - Bid

While delivery is requested by February 2018 for item 1, the best delivery that could be offered is _____.

While delivery is requested by February 2018 for item 2, the best delivery that could be offered is _____.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

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

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

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

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

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

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

1.1 Additional Information - TECHNICAL PROPOSAL (TP)

Bidders must submit a full Technical Proposal (TP) in accordance with the mandatory criteria listed in Annex B. The TP will form the basis of evaluation and therefore must be complete. Bidders should provide the TP with their Bid. If the TP has not been received by the time the evaluation of offers is completed, the Standing Offer Authority will request it in writing from the Bidder. Failure to provide a TP within the requested time frame will render the offer non-responsive.

1.2 Improvement of Requirement during Solicitation Period

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 15 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

Section II: Financial Offer

Bidders must submit their financial bid in accordance with the Basis of Payment and the Mandatory Financial Criteria. The total amount of applicable taxes must be shown separately.

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1.3 Electronic Payment of Invoices – Bid

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

If Annex “D” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

1.4 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
C3010T	Exchange Rate Fluctuation Risk Mitigation	2013-11-06

1.5 Progress Payments

Progress payments will not be considered unless specifically offered by PWGSC in this document.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

1.1 Technical Evaluation

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

1.1.1 Mandatory Technical Criteria

The Mandatory Technical Criteria are indicated at Annex "C" – Part 1.

Offers not meeting these mandatory technical criteria will be declared non-responsive.

1.1.2 Point Rated Technical Criteria

The Point-rated technical criteria are indicated in Annex "C" – Part 2.

Bids not meeting the minimum overall passing score for the technical rated criteria will be declared non-responsive.

Point-rated technical criteria not addressed will be given a score of zero.

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

- a) The Bidder must bid firm unit prices in Canadian funds, Applicable Taxes excluded, DDP Delivered Duty Paid to destination(s) Incoterms 2000, Customs Duties included for each item offered; and
- b) The Bidders' financial bid must be in accordance with the Basis of Payment.

Bidders not meeting these mandatory financial criteria will be declared non-responsive.

2. Basis of Selection

1. To be declared responsive, a bid must:
- comply with all the requirements of the bid solicitation;
 - meet all mandatory technical evaluation criteria; and
 - obtain the required minimum points for the technical evaluation criteria which are subject to point rating.
 - bid a unit price which is at most 20% higher than the unit price of the lowest responsive bid and bid a fixed fee for the corresponding optional item which is at most 20% higher than the fixed fee of the lowest responsive bid.

Bids not meeting (a) or (b) or (c) or (d) will be declared non responsive. The responsive bid with the highest number of points on an item by item basis will be recommended for award of a contract, provided that the total evaluated price does not exceed the budget available for this requirement.

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More than one contract may be awarded as a result of this solicitation. Each Line Item will be awarded to one supplier only.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

1. Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

2. Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

2.1 Integrity Provisions – List of Names

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ciif/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ciif/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

2.3 Additional Certifications Precedent to Contract Award

2.3.1 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

- A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

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Bidders' Authorized Representative Signature Date

or

B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

Green Practices within the Bidders' organization	Insert a checkmark for each criterion that is met
Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

Bidders' Authorized Representative Signature Date

PART 6 – RESULTING CONTRACT CLAUSES

Delete this title and the following sentence at contract award

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

1. Security Requirement

There is no security requirement applicable to this Standing Offer.

2. Requirement

The Contractor must provide the items as detailed in Annex B in accordance with the Statement of Work at Appendix "A".

2.1 Optional Quantity

The Contractor grants to Canada the irrevocable option to acquire the goods described at Item 3 and 4 of Annex B under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the optional quantity in whole or in part on one or more occasions within 5 years after contract award by sending a written notice to the Contractor:

Canada is not obligated to order any of the optional quantities.

3. Standard Clauses and Conditions

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

3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

Section 15 & 16, Payment Period & Interest on Overdue Accounts of 2010A will not apply to payments made by credit cards. *(If no credit card is accepted, this paragraph will be deleted).*

4. Term of Contract

4.1. Period of the Contract

The period of the Contract is from date of Contract for five (5) years.

4.2. Complete Delivery

The Contractor must make the complete delivery within _____ calendar days from the effective date of the Contract.

4.3. Adherence to Delivery Schedule

The contractor will promptly give notice to the Contracting Authority of its inability to meet the contract delivery schedule and will request therein an extension of time stating its proposed revised delivery schedule and offering consideration for such revisions. Until such notice is received and the revised delivery schedule agreed to, the Minister may, pursuant to the General Conditions, on the business day following the due date of delivery of any outstanding materials, terminate the whole or part of the contract for default.

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5. Authorities

5.1. Contracting Authority

The Contracting Authority is:

Bobbi MacLeod

Supply Team Leader
Public Works and Government Services Canada
Acquisitions Branch
Logistics, Electrical, Fuel and Transportation Directorate
7A2 Portage III
11 Laurier Street
Gatineau, Quebec K1A 0S5
Telephone: 873-469-3354
Facsimile:
E-mail address: bobbi.macleod@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

5.2. Project Authority

The Project Authority is:

To Be Provided at Contract Award

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

5.3. Contractor's Representative

Name and telephone number of the person responsible for :

	General Enquiries	Delivery Follow-up
Name:	_____	_____
Telephone No:	_____	_____
Facsimile No:	_____	_____
E-mail address:	_____	_____

6. Payment

6.1. Basis of Payment

Refer to Annex "B" for details on Basis of Payment.

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6.2. SACC Manual Clauses

SPECIFIC CLAUSES INCORPORATED BY REFERENCE

SACC Reference	Section	Date
H1001C	Multiple Payments	2008-05-12
C0100C	Discretionary Audit – Commercial Goods and / or Services	2010-01-11

6.3. Payment in Advance of Due Date

Payment may be made in advance of the due date where the Contractor's invoice offers a discount for early payment and the discount at least offsets the cost to Canada of paying early.

6.4. Electronic Payment of Invoices - Contract

(Contracting officers must include in the contract Electronic Payment Instruments accepted by the contractor, as identified in its bid and renumber accordingly.)

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);
- f. Large Value Transfer System (LVTS) (Over \$25M)

7. Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in Section 10 of 2010A, General Conditions - Goods (Medium Complexity). One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

8. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under any resulting Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under any resulting Contract.

9. Certifications

9.1. Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right pursuant to the default provision of the Contract, to terminate the Contract for default.

10. Applicable Laws

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

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11. Priority of Documents

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

- a) the Articles of Agreement;
- b) the general conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity)
- c) Appendix A, Statement of Work;
- d) Appendix B, Basis of Payment;
- e) the Contractor's bid dated _____ (*insert date of bid*), (*if the bid was clarified or amended, insert at the time of contract award: "as clarified on _____" or "as amended on _____" and insert date(s) of clarification(s) or amendment(s) if applicable*).

12. SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
B7500C	Excess Goods	2006-06-16
D9002C	Incomplete Assemblies	2007-11-30

13. Inspection and Acceptance

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

14. Shipping Instructions - DDP

Goods must be consigned and delivered to the destination specified in the contract: Incoterms 2000 DDP "Delivered Duty Paid". The delivery will include unloading.

ANNEX A
STATEMENT OF WORK (SOW)

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1. SCOPE

1.1. Purpose

The Purpose of this Statement of Work (SOW) is to define the requirements for the design, fabrication, trial assembly, preliminary testing, and hand over in Ottawa of a Rapidly Deployable Northern Shelter and associated Utilities Module intended for first of a kind evaluation by Natural Resources Canada and the Canadian Armed Forces.

1.2. Background

Natural Resources Canada has conceived a Modular Integrated System (MODULARIS) for building construction that offers superior comfort and ease of assembly and should be highly economical to purchase, operate and maintain. The technology is intended to serve markets for remote and northern housing and re-usable shelter applications of all kinds. The technology involves flat pack panels and an aluminum framework that can be assembled by hand in hours with minimal use of fasteners or tools. Natural Resources Canada is in the process of applying for patent and trademark protection for the technology and is seeking to build a First Article structure and stand-alone energy system for evaluation purposes.

1.3. Objective

This procurement will deliver as a minimum one nominal 25.5 ft x 51.0 ft First Article rapid assembly building, unassembled, and one First Article utilities module for the building incorporated within a 20 ft ISO sea container.

The First Article building will be trial fitted and tested indoors in Ottawa, followed by dismantling for transport to the far north in order to gather short and long term performance data.

The maximum budget available for a single unit of the First Article building is 200,000 dollars.

The maximum budget available for a single unit of the First Article utilities module is 200,000 dollars.

Should the First Article building be accepted after initial testing in Ottawa, the successful bidder will be given 90 days to negotiate an exclusive multi-year technology license and cost-plus-fee arrangement in order to grow the market for MODULARIS through the sale of demonstration units to Federal Government Departments that may be interested in the technology. The intent of any such agreement is that the licensee will prepare a business plan to develop specific project opportunities and shall cooperate with the Licensor to obtain product approvals required in Canada. It is understood that remote and northern areas will need thousands of new homes in coming years. The ultimate goal of this technology is to provide a safe, comfortable indoor environment for occupants at a life cycle cost considerably less than the cost of current best practice housing solutions for such applications.

1.4. Intended Use

The First Article building and associated utilities module are intended to be used in the far north through three separate Canadian Armed Forces deployments with a maximum cumulative exposure to the elements of 5 years.

The design life for all aspects of the analysis and design of the building envelope shall be set at 5 years with minimal maintenance other than routine field actions undertaken only when relocating the building.

The design life for all aspects of the utilities module shall be a minimum of 5000 hours without major overhaul of any of the supplied systems, where only routine maintenance is performed in the field and only when the building is being set-up or taken down.

The building technology makes use of standard interoperable components that can be stocked locally in depots for rapid deployment when necessary. Every effort must be made to ensure such components can be stored during periods of non-use without any special preparation or lay-up procedures, followed by easy recovery for immediate deployment into aggressive situations and harsh climatic conditions.

A particular intent of the design is to eliminate the use of any material that cannot withstand being left out in the open for periods of up to a year prior to or between any use of the components.

Another important intent of the design is to eliminate the use of any material that is able to propagate fire or the growth of mold for any reason.

In many ways the intended use of this building technology is similar to the use of the Bailey Bridge for military purposes, as all parts are standardized, interoperable and can be placed by hand without the use of mechanized lifting means.

The immediate intent is that three soldiers can unpack, position and assemble all parts of the building envelope by hand having only seen a video of the assembly sequence, with a cumulative person-hour tally of less than 150 hours.

The ultimate intent is that a family can assemble their own home in a couple of weeks without any special training other than what is normally required for safe job site safety.

2. APPLICABLE DOCUMENTS

Due to the confidential and proprietary nature of the details of the technology, a mandatory bidders' conference will be arranged in Gatineau at which time a visual briefing of the design will be provided and questions answered. Bidders must review and sign a non-disclosure agreement before being granted entry to the bidders' conference. Bidders may not delegate or assign participation at this conference to non-employees of the firm preparing the bid. No other documentation will be provided to bidders in advance of the bid submission date.

3. REQUIREMENTS

3.1. General

The contractor must interpret and detail the design concept offered by the licensor, including the engineering, design and manufacture of pre-fabricated building components intended for field assembly and an associated utilities module that arrives in the field ready for plug and play operation.

New components must be used throughout unless requested and approved in writing where the reason is related to meeting the schedule and the materials proposed can be verified easily to be in new or near new condition.

The components, equipment and assemblies provided must be considered a complete and independently operable system, not requiring tie-in of other components or special operating procedures in order to fulfil their intended purpose.

Any design substitutions shall be subject to the written prior approval of the Project Authority (PA).

Any special tools that may be required to assemble, disassemble or maintain the building components or utility equipment must be provided at the time of delivery.

The contractor must provide with the bid proposal maintenance recommendations for 5 years operation. This maintenance must be capable of being performed with limited skills training.

System Description

This procurement includes individual work packages which must be bid separately, though the preference is to award one single contract to deliver both Work Package 1 and Work Package 2, but two separate contracts (Work Package 1 & Work Package 2) may be awarded.

1. Work Package 1: Building Envelope Design-Build
 - a. 1-a: Building Frame Manufacture
 - b. 1-b: Building Panel Manufacture

2. Work Package 2: Building Utility Module Design-Build
 - a. 2-a: Building Utilities Module Manufacture

Work package 1 will deliver all necessary parts of a First Article building in accordance with the MODULARIS design concept.

The open concept building will be provided with a raised raft foundation and hydronic radiant in-floor heating as well as individual heat recovery ventilators that do not use ductwork. LED lighting shall be used. Wiring will consist of pre-made harnesses that are surface mounted. There will be no water used in the building.

The equipment required for the building shall consist of the following as a minimum:

- 28 engineered plastic footings for the building,
- a field assembled aluminum foundation for the building consisting of approximately 400 linear feet of horizontally arranged tubular trusses about 24 inches deep, with proprietary extrusions and connections,
- a field assembled aluminum superstructure for the building consisting of approximately 250 linear feet of horizontally arranged tubular trusses about 24 inches deep, with proprietary extrusions and connections,
- a set of 32 aluminum columns joining the foundation to the superstructure along the perimeter of the building envelope, with proprietary connections,
- 1300 square feet of laminated floor panels generally 10 inches thick, made with an expanded foam interior in one or more layers, adhered to fiberglass reinforced skins made using fire resistant phenolic resin, with proprietary connections and seals,
- 1300 square feet of laminated roof panels generally 10 inches thick, arranged horizontally, made with an expanded foam interior in one or more layers, adhered to fiberglass reinforced skins made using fire resistant phenolic resin, with proprietary connections and seals,
- 2000 square feet of laminated wall panels generally 10 inches thick, made with an expanded foam interior in one or more layers, adhered to fiberglass reinforced skins made using fire resistant phenolic resin, factory fitted exterior cladding forming a ventilated facade, with proprietary attachments and seals, and rough openings for 8 window assemblies and 2 door assemblies,
- 2000 square feet of flexible woven membrane roof finish, with proprietary attachments and seals,
- 1300 square feet of proprietary hydronic in-floor heating, consisting of sculpted foam grid pieces, 5 in-floor circuits made without joints using PEX tubing, a wall mounted header set with flow adjustors, a fire and mold resistant sub-floor, and a durable snap-in-place floor finish,
- four heat recovery ventilators suitable for mounting in window rough openings,

-
- two 10 lb Class A-B-C fire extinguishers
 - two battery powered fire/smoke alarms
 - two battery powered CO alarms
 - a 100 W indirect LED wall mounted lighting system and surface mounted electrical harness consisting of two 15 amp circuits for AC power distribution inside the building along the base of the perimeter wall,

Work Package 2 will deliver a First Article utilities module, incorporated within a 20 ft sea container, which provides electricity and heat for the building. The utility module will arrive in the field ready for plug-and-play operation. The utility module will contain a hopper for wood pellet storage, a non-pressurized thermal storage reservoir and a wood pellet fueled Organic Rankine Cycle (ORC) device capable of generating heat and power simultaneously. A black start diesel gen-set shall be provided with a whole house battery system.

The equipment required for the utilities module shall consists of the following as a minimum:

- One 20 foot high boy ISO container with double doors at both ends and two additional commercial grade steel door assemblies fitted to opposite sides of the container. These two additional doors will be used to make the container an airlock for entry into the main building. The traditional container doors at each end will allow for contractor access to equipment for maintenance. The container shall be insulated to R-20 or better and lined with a double layer of taped and sanded drywall painted white using epoxy paint. The floor shall be one piece linoleum rolled up the wall six inches for good housekeeping,
- one military style air pallet fixed to the floor inside the container, upon which is attached: a composting toilet central receiver, a leachate collection tank, a leachate pump, a vacuum pump/macerator, an ultra-low flow vacuum toilet and washbasin with potable water storage, filtering and UV disinfection, as well as a privacy curtain,
- one military style air pallet fixed to the floor inside the container, upon which is attached: a wood pellet day hopper, a wood pellet auger, one wood pellet cogeneration system rated at 3 kWe nominal, and a secondary treatment system for the leachate from the composting toilet system,
- one overhead electric fan coil heater mounted to the underside of the roof of the container,
- one fully enclosed variable speed gen-set rated at 3 kWe nominal mounted to the underside of the roof of the container with vibration isolators,
- one military style air pallet fixed to the floor inside the container, upon which is attached one non-pressurized thermal storage system, one double wall diesel fuel tank, one lithium ion battery system rated 3 kW-hr, one ac power distribution panel, one hydronic fluid distribution panel, and all necessary umbilicals to quickly connect electrical and thermal services to the building at a distance of 10 feet or less from the utility container,

3.2. Characteristics

The building components and utilities container must be capable of being left in the open unattended and unprotected for an extended cold soak period, followed by assembly without provision of a heated working environment of any kind, at temperatures down to minus 25 C.

The building when assembled and the utilities container when connected must be capable of operating with periodic heavy occupancy while maintaining a safe and comfortable indoor environment with adequate quantities of conditioned fresh air.

The utilities container must be capable of being transported long distances over rough terrain without any additional internal bracing or precautions.

Any and all equipment inside the utilities container must be permanently mounted to pedestals that originate on the air pallets, such that the equipment can be fitted at the supplier's works and then transported by air to the location where the container is being fitted with internal systems. All equipment within the container shall be capable of being maintained by removal of the air pallet upon which the equipment is located.

3.3. Health and Safety

All equipment and materials must comply with applicable Canada Occupational Health and Safety Regulations in effect for such equipment on the date of manufacture as well as any best practice guides available in the public domain for arctic installations.

Appropriate danger and caution signs must be provided in both official languages.

All component delivered to the field must be thoroughly cleaned, deburred and rendered safe to handle using ungloved hands, extra care shall be taken to eliminate sharp edges, pinch points and other such hazards by design rather than relying on safe handling procedures.

One eyewash station and one emergency shower with fold down seat, stainless steel base, and privacy curtain must be provided within the utilities module. No penetration of the utility container floor is permitted.

Two binders consisting of material safety data sheets must be provided, one in each official language.

3.4. Protection of Goods

Goods must be suitable for exposure to the elements north of 60 without any special protection measures for a period of not less than 12 months without any deterioration that would limit their normal use or life expectancy.

3.5. Identification and Marking

Contractor must use standard identification and marking measures, as approved by the PA.

3.6. Certification

The Contractor must provide evidence of electric approvals for all equipment provided at time of delivery.

3.7. Technical Documentation and Training Materials

Technical documentation and training shall be limited to a one week period on site in Ottawa using completed project materials such as: arrangement drawings, bills of materials with part numbers for all components delivered, purchase orders, material certificates and factory quality control information which as a minimum can trace incoming goods, purchase orders and dates of key factory operations to every component that leaves the factory using separate and dedicated part number attached to each component.

3.8. Reports

The contractor must prepare a comprehensive weekly progress report denoting actions taken, tasks completed and any problems or issues requiring decisions.

3.9. Meetings

The contractor must participate in meetings called by the PA, either by phone or in person, at a mutually agreeable time arranged between the contractor and the PA.

3.9.1 Meeting Minutes

The Contractor must prepare and submit to the PA Meeting Minutes no later than five (5) business days after a meeting.

3.10. First Article Unit, Testing and Acceptance

Preliminary testing of the first article building shall consist of:

- an examination by the PA
- Assembly process will require staging for production of a time lapse video.
- a blower door test
- a ¾ inch water hose test

All such testing shall take place in Ottawa. The contractor must provide heated indoor space in Ottawa for testing and for trial fitting of components into assemblies and marshalling of deliveries.

Any and all acceptance criteria shall be agreed upon in advance of commencement of testing.

The Contractor must subject the first article unit to all requirements in accordance with the approved FATP.

3.10.1. First Article Test Plan (FATP)

3.10.1.1. The Contractor must produce one (1) FATP.

3.10.1.2. The Contractor must provide the proposed FATP to the PA.

3.10.1.3. The plan must cover all the requirements of this SOW.

3.10.1.4. The FATP must present how the herein requirements will be evaluated (e.g. inspection, demonstration).

3.10.1.5. The FAT must not commence until notification is received from the PA that the FATP has been approved.

3.10.2. First Article Test Report

3.10.2.1. The first article test data must be forwarded to the PA for approval in the form of a First Article Test (FAT) Report following the completion of testing.

3.10.2.2. The FAT Report must be presented as a single document showing the cross-reference of the FATP and the supporting documentation from the FAT (e.g. inspection check lists, certificates, FAT check lists).

3.10.2.3. Canada will provide to the Contractor, a written notice of approval or rejection of the FAT report within five (5) business days of receipt of the report.

3.10.3. FAT Rejection

3.10.3.1. If the FAT is rejected, the Contractor must resolve deficiencies with the equipment and, if requested by the PA, repeat any or all first article test plan requirements as expeditiously possible.

3.10.3.2. All costs related to these activities must be borne by the Contractor.

3.10.4. Finalization of the first article

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3.10.4.1. The first article must be considered finalized when it is in the accepted configuration following the completion and acceptance of the FAT, including any changes to equipment because of the FAT rejection.

3.10.5. Delivery of Test Article

3.10.5.1. The Contractor may deliver the tested article as deliverable equipment if the article meets all contract requirements for acceptance.

3.11. Documentation

The Contractor must supply a Recommended Spare Parts List (RSPL) for five years' worth of maintenance with the bid. The Contractor shall identify the cost as a separate line item. The contractor shall provide the cost of each item identified by the RSPL.

4. CONTRACT DELIVERABLES

4.1. List of Deliverables

Item	Item Description	Qty	Option
1	Rapid Assembly Building	1	100
2	Utilities Module	1	25
3	First Article Test Report (para 3.10.2)	1	0

ANNEX B

BASIS OF PAYMENT

1. Basis of Payment - Firm Unit Price(s)

For items 1, and 2:

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), DDP to destination, as specified in the contract for a cost of \$ _____ CAD (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra.

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

Item	Quantity	Unit Price \$
1: First Article Rapid Assembly Building in accordance with Annex A	1	
2: First Article Utilities Module in accordance with Annex A	1	

2. Basis of Payment - Fixed Fee

For Optional items 3 and 4:

The Contractor will be paid its costs reasonably and properly incurred in the performance of the Work, in accordance with Contract Cost Principles 1031-2, as determined by a government audit, plus a fixed fee as shown in the table below. The results and findings of the government's audit will be conclusive.

Item	Quantity	Fixed Fee \$ per sq. ft Year 1
3: Optional Rapid Assembly Building in accordance with Annex A. Option to procure up to 100 Rapid Assembly Buildings. The bid price for the optional quantities must remain firm for 12 months from the Contract Award date.	100	
4: Optional Utilities Module in accordance with Annex A. Option to procure up to 25 Utility Modules. The bid price for the optional quantities must remain firm for 12 months from the Contract Award date.	25	

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2.1 Fixed Fee – Years 2, 3, 4 and 5

The Contractor agrees that for each four (4) 1 year contract period, the fixed fee (increased or decreased) will be adjusted in accordance with the average Consumer Price Index (CPI) published by Statistics Canada (all items) for Canadian municipalities, for the municipality closest to the Contractor's main operations. The adjustment will be made as required, when optional quantities are exercised, based on the average CPI of the most recent 12-month period using the previous year's fixed fee.

3. Basis of Payment - Firm Unit Price(s) (Optional Recommended Spare Part List)

For item 5:

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), DDP to destination, as specified in the contract. Customs duties are included and Applicable Taxes are extra.

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

Item #	Description	Part Number	NSN	Quantity	Unit Price
5.1					
5.2					
etc					

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ANNEX C - Evaluation

Part 1 - Mandatory Technical Criteria

The offer must meet the mandatory technical requirements specified below. The Bidder must provide the necessary documentation to support compliance with these requirements. Each mandatory technical requirement should be addressed separately.

	Description of Requirement	Cross-reference to bid documents (page / paragraph)
M1	The Bidder must submit a full Technical Proposal that demonstrates that it fully understands the requirement and outlines the approach it will take to provide the goods and services specified in Annex A.	
M2	The Bidder must demonstrate its firm's authority to provide structural engineering services in Ontario and Nunavut.	
M3	The Bidder must demonstrate that it has managed the engineering, procurement and construction of an occupied building or group of occupied buildings located north of 60 with a total project value >\$5,000,000) within the five year period prior to the closing date of the Request for Proposal (RFP).	
M4	The Bidder must demonstrate experience building and installing a structural aluminum fabrication, such as scaffolding, truss-work or a space frame, by submitting a letter from the client stating that the fabrication is performing acceptably.	
M5	The Bidder must demonstrate experience building and installing prefabricated building panels made with skins not derived from wood by submitting a letter from the client stating that the panels are performing acceptably.	
M6	The Bidder must demonstrate experience building and installing energy systems for a remote and-or northern application by submitting a letter from the client stating that the systems are performing acceptably.	

Part 2 - Technical Rated Evaluation Criteria

Each rated technical criterion should be addressed separately. The Bidder must demonstrate an understanding of the tasks and the approach to achieving them. To obtain the maximum number of points, the Bidder must clearly and concretely demonstrate how they meet each criterion by providing detailed explanation. Merely repeating what is described in the request for proposal is insufficient.

A: Item 1 - Work Package 1, 1-A, 1-B: Building Envelope Design Build

Rated Technical Criteria	Evaluation Criteria	Evaluation Weight
R1 Lead Technical – Innovation Experience	The Bidder should identify its lead engineer and demonstrate the lead engineer's experience implementing innovative building envelope solutions in the past.	Evaluation: Each innovation implemented = 5 points Maximum points available = 15
R2 Lead Technical - Expertise	The Bidder should indicate if its lead engineer has been called on to be an expert in relation to problems encountered in the field.	Evaluation: Each project involved = 1 point Maximum points available = 5
R3 Lead Technical - Structural	The Bidder should indicate if its lead engineer has implemented any novel approaches for structural connections in the past.	Evaluation: Each approach implemented = 1 point Maximum points available = 5
R4 Firm	The Bidder should indicate if the firm has provided stamped engineering drawings for any steel building or structure using lightweight rolled sections.	Evaluation: Each building or structure involved = 1 point Maximum points available = 5
R5 Firm	The Bidder should indicate if the firm has experience welding aluminum.	Evaluation: Each subcontract with aluminum welding valued at over \$25,000 = 1 point Maximum points available = 5

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R6 Firm	The Bidder should indicate the length of the longest free span aluminum truss the firm has designed, manufactured and installed in the past by providing the applicable general arrangement drawing.	Evaluation: Each increment of 5 feet span = 1 point Maximum points available = 5
R7 Firm	The Bidder should indicate if the firm regularly sends work out for galvanizing, anodizing or powder coating. In order for the Bidder's experience to be considered, the Bidder must provide detailed descriptions of sub-contracts that demonstrate that the Bidder has sent out work for galvanizing, anodizing or powder coating.	Evaluation: Each subcontract valued at over \$5,000 = 1 point Maximum points available = 5
R8 Firm	The Bidder should indicate which types of expanded foam materials the firm has worked with in the past (EPS, PUR, PIR, PET, Other).	Evaluation: Each distinct type of foam worked with = 1 point Maximum points available = 5
R9 Firm	The Bidder should indicate which adhesive and resin systems the firm has worked with in the past (epoxy, polyester, polyurethane, hot melt, other).	Evaluation: Each distinct system worked with = 1 point Maximum points available = 5
	Maximum points available – 55 points Minimum passing score – 50% or 27.5 points	

B: Item 2 - Work Package 2, 2-A: Building Systems Design Build

Rated Technical Criteria	Evaluation Criteria	Evaluation Weight
R10 Lead Engineer – Innovation Experience	The Bidder should identify its lead engineer and demonstrate the lead engineer's experience developing innovative building systems solutions in the past.	Evaluation: Each innovation implemented = 5 points Maximum points available = 15
R11 Lead Engineer	The Bidder should indicate if its lead engineer has successfully commissioned equipment in the field.	Evaluation: Each project involved = 1 point Maximum points available = 5
R12 Firm	The Bidder should indicate if the firm has provided stamped engineering drawings for any building related mechanical or electrical system.	Evaluation: Each building or structure involved = 1 point Maximum points available = 5
R13 Firm	The Bidder should indicate if the firm has experience programming or commissioning industrial controllers.	Evaluation: Each project involved = 1 point Maximum points available = 5
R14 Firm	The Bidder should indicate if the firm has designed and built backup or prime power generation systems.	Evaluation: Each project involved = 1 point Maximum points available = 5
R15 Firm	The Bidder should indicate if the firm has designed and installed hydronic heating systems or identify its subcontractor and demonstrate the subcontractor's experience designing and installing hydronic heating systems.	Evaluation: Each system valued at over \$5,000 = 1 point Maximum points available = 5

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R16 Firm	The Bidder should indicate if the firm has designed and fabricated ablation units for remote camps or identify its subcontractor and demonstrate the subcontractor's experience designing and fabricating ablation units for remote northern camps.	Evaluation: Each project involved = 1 point Maximum points available = 5
R17 Firm	The Bidder should indicate if the firm has worked with the following types of equipment (batteries, diesel generators, wood pellet boilers, water purification, composting toilets).	Evaluation: Each distinct type of equipment worked with = 1 point Maximum points available = 5
	Maximum points available – 50 points Minimum passing score – 50% or 25 points	

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ANNEX “D” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.

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

- () VISA Acquisition Card;
- () MasterCard Acquisition Card;
- () Direct Deposit (Domestic and International);
- () Electronic Data Interchange (EDI);
- () Wire Transfer (International Only);
- () Large Value Transfer System (LVTS) (Over \$25M)