

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

**Bid Receiving  
PWGSC  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5  
Bid Fax: (905) 615-2095**

**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**

<b>Title - Sujet</b> Radio Tower	
<b>Solicitation No. - N° de l'invitation</b> 23126-130147/A	<b>Date</b> 2012-09-20
<b>Client Reference No. - N° de référence du client</b> 23126-130147	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-031-6026	
<b>File No. - N° de dossier</b> TOR-2-35151 (031)	<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 2012-10-31</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<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> Schmidt, Jeff	<b>Buyer Id - Id de l'acheteur</b> tor031
<b>Telephone No. - N° de téléphone</b> (905) 615-2058 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2060
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATURAL RESOURCES 1219 QUEEN ST E. SAULT STE MARIE Ontario P6A2E5 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<b>Delivery Required - Livraison exigée</b> 2012-11-30	<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

## TABLE OF CONTENTS

### PART 1 - GENERAL INFORMATION

1. Security Requirement
2. Statement of Work
3. Debriefings

### PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions
2. Submission of Bids
3. Enquiries - Bid Solicitation
4. Applicable Laws

### PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

### PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures
2. Basis of Selection

### PART 5 - CERTIFICATIONS

1. Code of Conduct Certifications – Certifications Required Precedent to Contract Award
2. Certifications Precedent to Contract Award

### PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement
2. Statement of Work
3. Standard Clauses and Conditions
4. Term of Contract
5. Authorities
6. Payment
7. Invoicing Instructions
8. Certifications
9. Applicable Laws
10. Priority of Documents
11. Insurance

#### List of Annexes:

Annex A	Requirement
Annex B	Basis of Payment
Annex C	Insurance Requirements

---

## **PART 1 - GENERAL INFORMATION**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Statement of Work**

The Work to be performed is detailed under Article 2 of the resulting contract clauses.

### **3. Debriefings**

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

### **4. Optional Site Visit**

It is recommended that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for a tour of the work site. The site visit will be held on 18 October 2012 at 10:00AM, 1000 Cloutier Road Chalk River, Ontario. Bidders must communicate with the Contracting Authority no later than one (1) day before the scheduled visit to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders who do not confirm attendance and provide the name(s) of the person(s) who will attend as required will not be allowed access to the site. Bidders will be requested to sign an attendance form. Bidders who do not attend or send a representative will not be given an alternative appointment but they will not be precluded from submitting a bid. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

---

## 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

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

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

The 2003 (2012-07-11) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The text under Subsection 4 of Section 01 – Code of Conduct and Certifications of 2003 referenced above is replaced by:

Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to provide such a list within the required time frame will render the bid non-responsive. Bidders must always submit the list of directors before contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms ( *Consent to a Criminal Record Verification form - PWGSC-TPSGC 229*) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

The text under Subsection 5 of Section 01 – Code of Conduct and Certifications of 2003 referenced above is replaced by:

The Bidder must diligently maintain the list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid, and must also provide Canada, when requested, with the corresponding Consent Forms. The Bidder will also be required to diligently maintain the list and when requested, provide Consent Forms during the period of any contract arising from this bid solicitation

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days  
Insert: ninety (90) days

### 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 seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Solicitation No. - N° de l'invitation

23126-130147/A

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-2-35151

Buyer ID - Id de l'acheteur

tor031

Client Ref. No. - N° de réf. du client

23126-130147

CCC No./N° CCC - FMS No/ N° VME

---

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

#### **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.

---

## **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 (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that 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 are encouraged to:

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

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

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

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

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

#### **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**

#### **1.1.1 Mandatory Technical Criteria**

- 1. Bidders must have a minimum of five (5) years experience supplying and installing/erecting galvanized steel radio/equipment towers.
- 2. Bidders must provide details of two (2) similar contracts installing/erecting and decommissioning/disposing of steel towers within the last five (5) years including the name, address, phone number and contact person for each contract. Contractual references will be used to ensure Bidder has the experience supplying and installing/erecting galvanized steel radio/equipment towers.

### **1.2 Financial Evaluation**

- 1. Bidders must submit pricing in accordance with Annex "B", Basis of Payment, with their bid at bid Closing.
- 2. SACC Manual Clause A0220T (2007-05-25), Evaluation of Price

## **2. Basis of Selection**

- 2.1 SACC Manual Clause A0031T (2010-08-16), Basis of Selection - Mandatory Technical Criteria

---

## PART 5 - CERTIFICATIONS

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

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

### 1. Code of Conduct Certifications – Certifications Required Precedent to Contract Award

**1.1** Bidders should provide, with their bids or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.

The Contracting Authority may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (*Consent to a Criminal Record Verification form - PWGSC-TPSGC 229*) for any or all individuals named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

### 2. Certifications Precedent to Contract Award

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

#### 2.1 Federal Contractors Program - Certification

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

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

The Bidder or the member of the joint venture

- a. ( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;

Solicitation No. - N° de l'invitation

23126-130147/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

tor031

Client Ref. No. - N° de réf. du client

23126-130147

File No. - N° du dossier

TOR-2-35151

CCC No./N° CCC - FMS No/ N° VME

---

- b. ( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- c. ( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- d. ( ) has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: \_\_\_\_\_ .

Further information on the FCP is available on the HRSDC Web site.

---

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **1. Security Requirement**

There is no security requirement associated with the requirement.

### **2. Statement of Work**

The Contractor must perform the Work in accordance with the Statement of Work at Annex A.

### **3. Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the (<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 (2012-07-16), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

The text under Subsection 4 of Section 29 – Code of Conduct and Certifications of 2010A General Conditions – Goods (Medium Complexity), referenced above is replaced by:

During the entire period of the Contract, the Contractor must diligently update, by written notice to the Contracting Authority, the list of names of all individuals who are directors of the Contractor whenever there is a change. As well, whenever requested by Canada, the Contractor must provide the corresponding Consent Forms.

### **4. Term of Contract**

#### **4.1 Delivery Date**

All the deliverables must be received on or before 15 December 2012.

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Jeff Schmidt  
Title: Supply Officer  
Public Works and Government Services Canada  
Acquisitions Branch  
Directorate: Ontario  
Address: 33 City Centre Dr  
Mississauga, ON L5B 2N5

Telephone: 905-615-2058  
Facsimile: 905-615-2060  
E-mail address: [jeff.schmidt@pwgsc.gc.ca](mailto:jeff.schmidt@pwgsc.gc.ca)

Solicitation No. - N° de l'invitation

23126-130147/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

tor031

Client Ref. No. - N° de réf. du client

23126-130147

File No. - N° du dossier

TOR-2-35151

CCC No./N° CCC - FMS No/ N° VME

---

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.

## 5.2 Project Authority

The Project Authority for the Contract is:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail address: \_\_\_\_\_

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: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_\_

Facsimile: \_\_\_\_\_

E-mail address: \_\_\_\_\_

## 6. Payment

### 6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as specified in Annex "B", Basis of Payment for a cost of \$ \_\_\_\_\_. Customs duties are included, and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

### 6.3 Single Payment

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

## 7. Invoicing Instructions

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

1. Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 8. Certifications

**8.1** 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 term of the Contract. 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.

## 9. Applicable Laws

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

## 10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2012-07-16), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Insurance Requirements;
- (f) the Contractor's bid dated \_\_\_\_\_.

## 10. Insurance

The Contractor must comply with the insurance requirements specified in Annex C. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding 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 is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer

Solicitation No. - N° de l'invitation

23126-130147/A

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-2-35151

Buyer ID - Id de l'acheteur

tor031

CCC No./N° CCC - FMS No/ N° VME

23126-130147

---

licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

---

## **ANNEX A REQUIREMENT**

### **1.0 TOWER OVERVIEW**

Natural Resources Canada (NRCan) requires the supply and installation/erection of a 30 metre CSA 37.01 compliant, guyed radio/equipment tower at Petawawa Research Forest (PRF) Petawawa, ON.

The guyed radio/equipment tower will replace the existing 31 metre equipment tower for which the Contractor will be responsible for decommissioning, dismantling and disposing of materials in compliance with the Environmental Protection Act, Ontario Regulation 102/94 and Ontario Regulation 103/94 .

The equipment installed on the existing tower must be removed and fully installed on the new tower in a manner that minimizes any equipment downtime.

There are no engineering drawings or specifications available for the existing tower.

### **2.0 COORDINATION OF INSTALLATION/ERECTION WITH DEPARTMENTAL REPRESENTATIVE**

Site Core Hours: 08:30 to 16:30

Any work on site must be scheduled with the site Departmental Representative. In addition to NRCan equipment, a third party has equipment installed on the tower and sufficient notification in writing (1 week minimum) must be provided to the Project Authority so they in turn can advise the lessee of any equipment downtime that must be scheduled.

Decommissioning/disposal of the old tower and installation/erection of the new tower must be carefully coordinated by the contractor to ensure minimum possible equipment downtime.

### **3.0 EXISTING TOWER**

The existing tower structure measurement is 31 metres (36 metres to top of installed antennae),

The existing tower must be decommissioned, dismantled and disposed of as per applicable Federal and Provincial Regulations as part of this contract. The existing equipment installed on the existing tower must be transferred to the new tower.

### **4.0 EXISTING EQUIPMENT TRACK/RAIL/BOOM**

The tower must be able to accommodate the transfer of the existing track/rail/boom system or alternately must include a new comparable track/rail/boom beginning 3 ft above the ground and extending to the top of the tower. The rail system must be installed when the new tower is being erected. It must allow the equipment boom shown in Appendix A to Annex A, Figure 1.4 and 1.5 to be raised and lowered using the crank and cable device described in the attached photographs.

### **5.0 CORROSION PROTECTION/PREVENTION**

All tower structural members must be hot dipped galvanized steel (or approved equivalent by NRCan)

## 6.0 SOIL CONDITIONS

For design purposes the soil conditions should be considered bedrock with loose forest organic material cover in places.

## 7.0 WIND DATA

The design impact from the near site wind data from Environment Canada must be factored into the design as well. The near site data is presented here. See link below:

[http://www.climate.weatheroffice.gc.ca/climate\\_normals/results\\_e.html?stnID=4353&lang=e&dCode=0&StationName=PETAUAWA&SearchType=Contains&province=ALL&provBut=&month1=0&month2=12](http://www.climate.weatheroffice.gc.ca/climate_normals/results_e.html?stnID=4353&lang=e&dCode=0&StationName=PETAUAWA&SearchType=Contains&province=ALL&provBut=&month1=0&month2=12)

The Contractor must obtain any site specific wind data required for the final design.

The site is remote however it is unacceptable to have a disruption in service as the tower equipment is required for Health and Safety reasons.

## 8.0 LIGHTNING PROTECTION

The new tower must have a lightning rod(s) and grounding protection system supplied and installed as part of this contract as per applicable B72-M87 Installation Code for Lightning Protection Systems, C22.1-Canadian Electrical Code, Ontario Electrical Safety Code, CSA Standard S37-01 and all other additional applicable standards, codes and regulations

## 9.0 CODES AND REGULATIONS

The tower installation must comply to all applicable CSA standards including but not limited to **CSA Standard S37.01** and all other additional applicable standards, codes and regulations.

## 10.0 PERMITS AND APPROVALS

The Contractor must obtain all required permits and approvals, including Transport Canada, Nav Canada and local permits/approvals if required.

## 11.0 COMPLETION SCHEDULE

All work must be completed by 15 December 2012

## 12.0 ENGINEERING DOCUMENTATION

All engineering drawings, designs and specification must to be turned over to NRCan when the installation is complete and will become property of the Crown. This is to include all drawings, manuals and related materials.

Additionally, the required maintenance schedule must be included and must include detailed instructions/procedures to correctly tension guy wires.

One (1) electronic copy and three (3) hard copies are required.

The installation will not be considered complete until this documentation has been received by NRCan

Solicitation No. - N° de l'invitation

23126-130147/A

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-2-35151

Buyer ID - Id de l'acheteur

tor031

Client Ref. No. - N° de réf. du client

23126-130147

CCC No./N° CCC - FMS No/ N° VME

---

### **13.0 LOCATION OF TOWER (INSTALLATION/ERECTION):**

Petawawa Research Forest (PRF)  
1000 Cloutier Road  
Chalk River, Ontario  
K0J 1J0

Solicitation No. - N° de l'invitation

23126-130147/A

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-2-35151

Buyer ID - Id de l'acheteur

tor031

Client Ref. No. - N° de réf. du client

23126-130147

CCC No./N° CCC - FMS No/ N° VME

---

**APPENDIX A TO ANNEX A  
EXISTING RADIO/EQUIPMENT TOWER PHOTO'S**

See attached document.

Solicitation No. - N° de l'invitation

23126-130147/A

Client Ref. No. - N° de réf. du client

23126-130147

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-2-35151

Buyer ID - Id de l'acheteur

tor031

CCC No./N° CCC - FMS No/ N° VME

---

**ANNEX "B"**  
**BASIS OF PAYMENT**

For the Work as detailed in Annex "A", Statement of Work.

Price is firm, all inclusive in Canadian dollars. Transportation charges, Customs duties and Excise taxes are included, and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

<b>Requirement</b>	<b>\$ Firm Unit Price</b>
Supply, delivery and installation of a 30 metre CSA 37.01 compliant, guyed radio/equipment tower and removal of existing tower in accordance with all the specifications detailed in Annex "A", Statement of Work including all required permits and approvals.	\$ _____

---

## ANNEX C INSURANCE REQUIREMENTS

### 1. Commercial General Liability Insurance

- 1.1 The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
- 1.2 The Commercial General Liability policy must include the following:
- a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - c. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
  - d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - g. Employees and, if applicable, Volunteers must be included as Additional Insured.
  - h. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
  - j. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
  - l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
  - m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.

- 
- q. Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
- r. Litigation Rights: Pursuant to subsection 5(d) of the Department of Justice Act, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,  
Quebec Regional Office (Ottawa),  
Department of Justice,  
284 Wellington Street, Room SAT-6042,  
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,  
Civil Litigation Section,  
Department of Justice  
234 Wellington Street, East Tower  
Ottawa, Ontario K1A 0H8

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

## **2. Rigger's Liability Insurance**

2.1 The Contractor must obtain Rigger's Liability Insurance, in an amount usual for a contract of this nature, but for not less than \$50,000.00 per accident or occurrence and in the annual aggregate. The Contractor's Riggers Liability Insurance must provide coverage for loss or damage to all Government Property under its care, custody or control, and must be maintained in force throughout the duration of the Contract. The Government Property must be insured on an Agreed Value (appraisal) basis.

The Contractor must notify Canada promptly about any losses or damages to Government Property and monitor, investigate and document losses of or damage to ensure that claims are properly made and paid.

2.2 The Rigger's Liability Insurance policy must include the following:

- a. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

- b. Loss Payee: Canada as its interest may appear or as it may direct, for loss or damage to Government property in the Contractor's care, custody or control.
- c. Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Natural Resources Canada and Public Works and Government Services Canada for any and all loss of or damage to the property however caused.

### **3. Errors and Omissions Liability Insurance**

- 3.1 The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
- 3.2 If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- 3.3 The following endorsement must be included:

Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

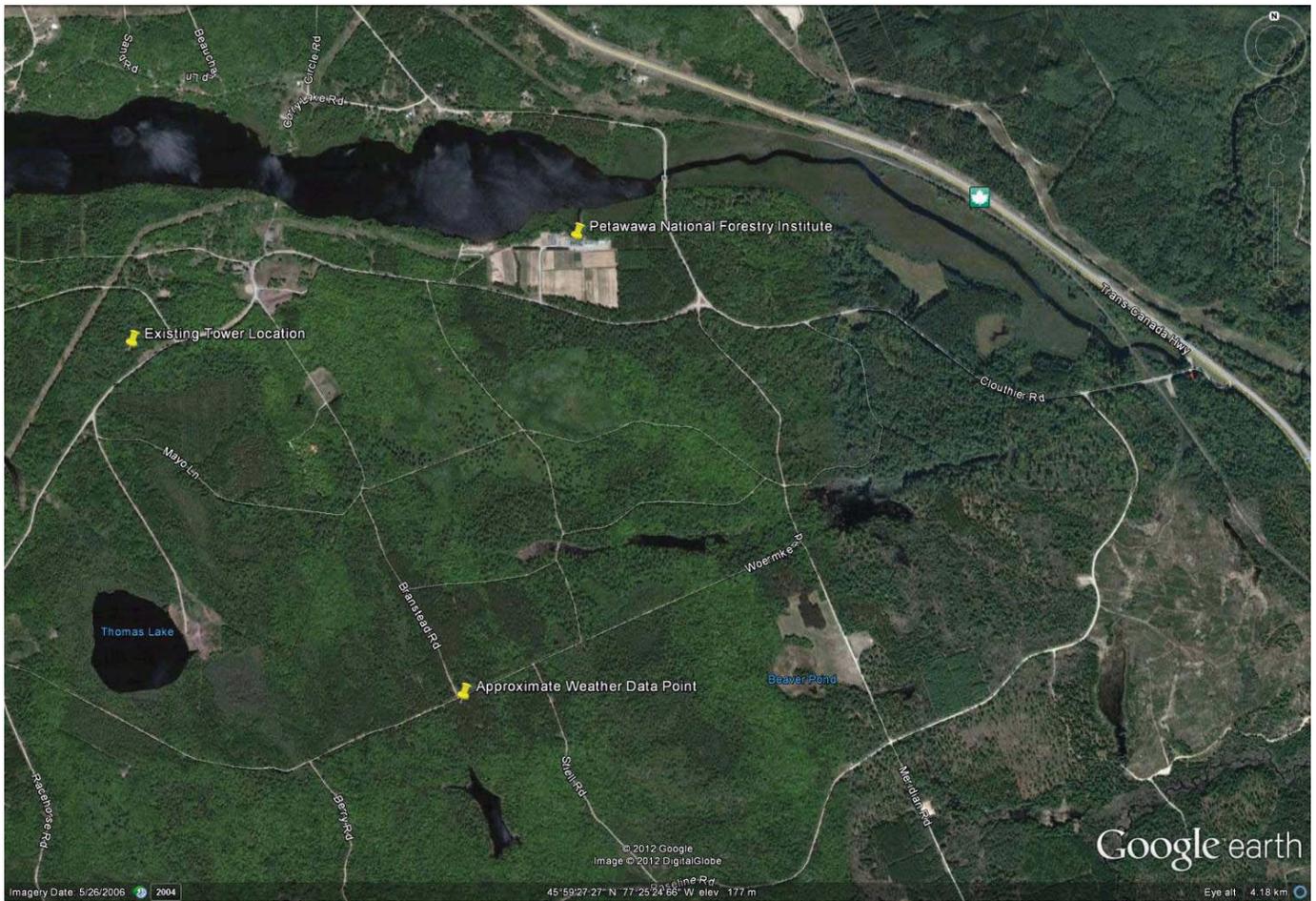
### **4. Environmental Impairment Liability Insurance**

- 4.1 The Contractor must obtain Contractors Pollution Liability insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$1,000,000 per accident or occurrence and in the annual aggregate.
- 4.2 If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- 4.3 The Contractors Pollution Liability insurance policy must include the following:
  - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.
  - b. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - c. Separation of Insureds: The policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - d. Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - e. Incidental Transit Extension: The policy must extend to losses arising from any waste, products or materials transported, shipped, or delivered via any transportation mode to a location beyond the boundaries of a site at which the Contractor or any entity for which the Contractor is legally liable is performing or has performed the operations described in the contract.

## 5. Automobile Liability Insurance

- 5.1 The Contractor must obtain Automobile Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence.
- 5.2 The policy must include the following:
- a. Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence
  - b. Accident Benefits - all jurisdictional statutes
  - c. Uninsured Motorist Protection
  - d. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

Figure 3.1: Petawawa Research Forest Site with Tower Location





*Figure 3.3: Radio Tower- Overall*



**Figure 3.4: Installed Equipment and Boom Angle 1**

The new tower is required to be of sufficient design to allow the equipment illustrated in the attached photos to be mounted:



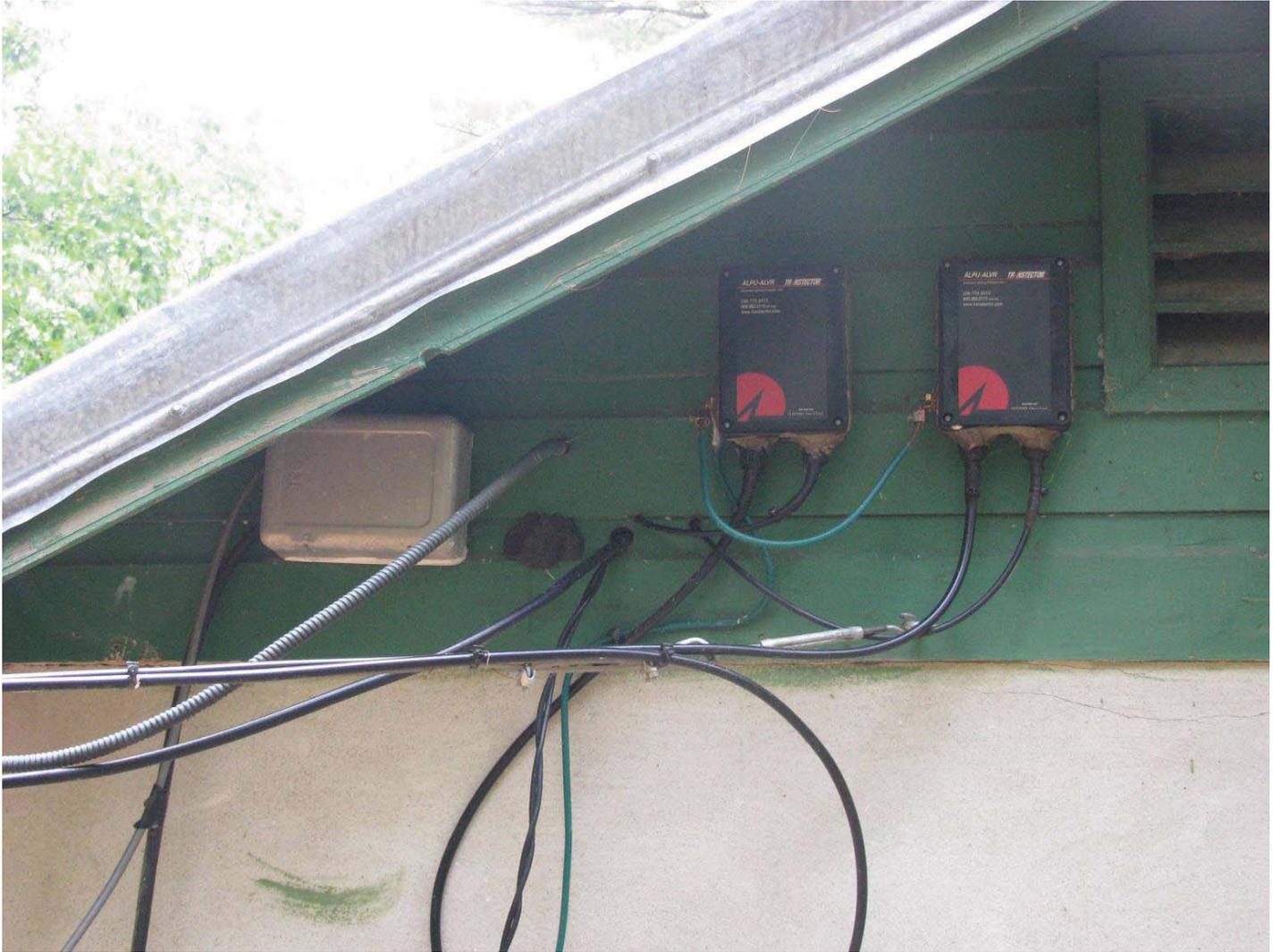
**Figure 3.5: Installed Equipment and Boom Angle 2**



**Figure 3.6: Equipment Shed and Tower Base**



**Figure 3.7: Equipment Cabling to Tower Leaving Equipment Shed**



*Figure 3.8: Cable Bundle Required to Service the Tower Equipment*



**Figure 3.9: Existing Equipment Boom Track/Rail**

The quoted tower should be able to accommodate the transfer of the existing track/rail/boom system or alternately must include a new comparable track/rail/boom beginning 3 ft above the ground and extending to the top of the tower. The rail system will be installed when the new tower is being erected. It should allow the equipment boom shown in Figure 2.4 and 2.5 to be raised and lowered using the crank and cable device shown:



*Figure 3.10: Existing Equipment Track/Rail/Boom Cable Crank*



**Figure 3.11: Existing Concret/Bedrock Base 1**

The tower base is set in concrete and bedrock:



**Figure 3.12: Existing Concret/Bedrock Base 2**



**Figure 3.13: Sample Existing Guy Wire Support- Angle 1:**



**Figure 3.14: Sample Existing Guy Wire Support- Angle 2:**

