



<p>RETURN BIDS TO/RETOURNER LES SOUMISSIONS À:</p> <p>Bid Receiving - Environment Canada / Réception des soumissions – Environnement Canada</p> <p>Electronic Copy: ec.soumissions-bids.ec@canada.ca</p> <p>BID SOLICITATION- INVITATION TO TENDER DEMANDE DE SOUMISSIONS – APPEL D’OFFRES</p> <p>PROPOSAL TO: ENVIRONMENT CANADA</p> <p>We offer to perform or provide to Canada the services detailed in the document including any attachments and annexes, in accordance with the terms and conditions set out or referred to in the document, at the price(s) provided.</p> <p>SOUMISSION À:</p> <p>ENVIRONNEMENT CANADA</p> <p>Nous offrons d’effectuer ou de fournir au Canada, aux conditions énoncées ou incluses par référence dans le document incluant toutes pièces jointes et annexes, les services détaillés dans le document, au(x) prix indiqué(s).</p>	<p>Title – Titre</p> <p>Electrical Installation at the Marble Mountain Radar Site</p>	
	<p>EC Bid Solicitation No. /SAP No. – N° de la demande de soumissions EC / N° SAP</p> <p>5000061263</p>	
	<p>Date of Bid solicitation (YYYY-MM-DD) – Date de la demande de soumissions (AAAA-MM-JJ)</p> <p>2021-09-08</p>	
	<p>Bid Solicitation Closes (YEAR-MM-DD) - La demande de soumissions prend fin (AAAA-MM-JJ)</p> <p>at – à 3:00 P.M.</p> <p>on – le 2021-10-07</p>	<p>Time Zone – Fuseau horaire</p> <p>EDT</p>
	<p>F.O.B – F.A.B</p>	
	<p>Address Enquiries to - Adresser toutes questions à</p> <p>Shawn Davis</p> <p>shawn.davis@ec.gc.ca</p>	
	<p>Telephone No. – N° de téléphone</p> <p>N/A</p>	<p>Fax No. – N° de télécopieur</p> <p>N/A</p>
	<p>Delivery Required (YEAR-MM-DD) – Livraison exigée (AAAA-MM-JJ) 2022-12-31</p>	
	<p>Destination - of Services / Destination des services</p> <p>Newfoundland</p>	
	<p>Vendor/Firm Name and Address - Raison sociale et adresse du fournisseur/de l’entrepreneur</p>	
<p>Telephone No. – N° de téléphone</p>	<p>Fax No. – N° de télécopieur</p>	



	<p>Name and title of person authorized to sign on behalf of Vendor/Firm: (type or print) /</p> <p>Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</p> <p>Signature Date</p>
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INVITATION TO TENDER

Electrical Installation at the Marble Mountain Radar Site Top of Ski Hill, Marble Mountain Ski Resort, Exit 8, Trans Canada Highway, Corner Brook, NF A2A 2N2

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R2710T GENERAL INSTRUCTIONS - CONSTRUCTION SERVICES - BID SECURITY REQUIREMENTS (GI) (2019-05-30)

The following GI's are included by reference and are available at the following Web Site <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

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SPECIAL INSTRUCTIONS TO BIDDERS (SI)

SI01 BID DOCUMENTS

1. The following are the Bid Documents:
 - a. Invitation to Tender - Page 1;
 - b. Special Instructions to Bidders;
 - c. General Instructions - Construction Services - Bid Security Requirements R2710T (2019-05-30)
 - d. Clauses & Conditions identified in "Contract Documents";
 - e. Drawings and Specifications;
 - f. Bid and Acceptance Form and related Appendix(s); and
 - g. Any amendment issued prior to solicitation closing.

Submission of a bid constitutes acknowledgement that the Bidder has read and agrees to be bound by these documents.

2. General Instructions - Construction Services - Bid Security Requirements R2710T is incorporated by reference and is set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Services and Procurement Canada. The SACC Manual is available on the PWGSC Web site: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

The General Instructions R2710T are modified as follows:

At G110 (2010-01-11) Revision of bid

Delete: In its entirety.

Insert:

1. A bid submitted in accordance with these instructions may be revised provided the revision is received at the office designated for the receipt of bids, on or before the date and time set for the closing of the solicitation. The revision shall be on the Bidder's letterhead or bear a signature that identifies the Bidder.
2. A revision to a bid that includes unit prices must clearly identify the change(s) in the unit price(s) and the specific item(s) to which each change applies.

At G113 (2019-05-30) Procurement Business Number

Delete: In its entirety.

At G116 (2010-01-11) Performance evaluation

DELETE: 2.

SI02 ENQUIRIES DURING THE SOLICITATION PERIOD

1. Enquiries regarding this bid must be submitted in writing to the Contracting Authority named on the Invitation to Tender - Page 1 at shawn.davis@ec.gc.ca Except for the approval of alternative materials as described in G115 of R2710T, enquiries should be



received no later than 5 business days prior to the date set for solicitation closing to allow sufficient time to provide a response. Enquiries received after that time may result in an answer NOT being provided.

2. To ensure consistency and quality of the information provided to Bidders, ECCC will examine the content of the enquiry and will decide whether or not to issue an amendment.
3. All enquiries and other communications related to this bid sent throughout the solicitation period must be directed ONLY to the Contracting Authority named in paragraph 1. above. Failure to comply with this requirement may result in the bid being declared non-compliant.

SI03 “Deleted”

SI04 REVISION OF BID

A bid may be revised in accordance with G110 of R2710T.

SI05 INSUFFICIENT FUNDING

In the event that the lowest compliant bid exceeds the amount of funding allocated for the Work, Canada in its sole discretion may

- a. cancel the solicitation; or
- b. obtain additional funding and award the Contract to the Bidder submitting the lowest compliant bid

SI06 BID VALIDITY PERIOD

1. Canada reserves the right to seek an extension to the bid validity period prescribed in BA04 of the Bid and Acceptance Form. Upon notification in writing from Canada, Bidders will have the option to either accept or reject the proposed extension.
2. If the extension referred to in paragraph 1. above is accepted, in writing, by all those who submitted bids, then Canada will continue immediately with the evaluation of the bids and its approvals processes.
3. If the extension referred to in paragraph 1. above is not accepted in writing by all those who submitted bids then Canada will, at its sole discretion, either
 - a. continue to evaluate the bids of those who have accepted the proposed extension and seek the necessary approvals; or
 - b. cancel the invitation to tender.
4. The provisions expressed herein do not in any manner limit Canada's rights in law or under G111 of R2710T.



SI07 Bid Preparation Instructions

Bids must be prepared and submitted in accordance with GI09 (2014-03-01) Submission of Bid.

In addition, Canada requests that bidders follow the format instructions described below in the preparation of their hard copy bid:

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders 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, must not contain any materials composed of plastic; and
- (3) print on both sides of the paper.

Note for electronic submission of bids:

In order to be considered, bids must be received no later than the date and time indicated on the cover page to herein as the "Closing Date." Bids received after the Closing Date will be considered non-responsive and will not be considered for contract award. Bids submitted by email must be submitted ONLY to the following email address:

Email Address: ec.soumissions-bids.ec@canada.ca

Attention: **Shawn Davis**

Solicitation Number: **5000061263**

Bidders should ensure that their name, address, Closing Date of the solicitation and Solicitation Number are clearly indicated in the body of their email. Bids and supporting information may be submitted in either English or French.

The total size of the email, including all attachments, must be less than 15 megabytes (MB). It is each Bidder's responsibility to ensure that the total size of the email does not exceed this limit.

Bids sent by fax will not be accepted.

It is important to note that emails systems can experience systematic delays and, at times, large attachments may cause systems to hold or delay transmission of emails. It is solely the Bidder's responsibility to ensure that the Contracting Authority receives a bid on time, in the mailbox that has been identified for bid receipt purposes. Date stamps for this form of transmission are not acceptable.



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

SI08 CONSTRUCTION DOCUMENTS

The successful Contractor will be provided (**with 1 electronic copy**) of the sealed and signed drawings, the specifications and the amendments upon acceptance of the offer.

SI09 INDUSTRIAL SECURITY RELATED REQUIREMENTS

Not Applicable

SI10 LISTING OF SUBCONTRACTORS AND SUPPLIERS

Deleted

S11 Green Procurement

To support the mandate and commitments of ECCC and the Government of Canada as a whole, Bidders that do business with ECCC are expected to have a Corporate Environmental Policy that addresses water conservation, greenhouse gas (GHG) reduction, waste reduction, air quality, and supports biodiversity and protection of wildlife.

SI12 WEB SITES

The connection to some of the Web sites in the solicitation documents is established by the use of hyperlinks. The following is a list of the addresses of the Web sites:

Treasury Board Appendix L, Acceptable Bonding Companies
<http://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=14494§ion=text#appl>

Buy and Sell
<https://www.achatsetventes-buyandsell.gc.ca>

Canadian economic sanctions
https://www.international.gc.ca/world-monde/international_relations-relations_internationales/sanctions/index.aspx?lang=eng

Bid Bond (form PWGSC-TPSGC 504)
<http://www.tpsqc-pwgsc.gc.ca/app-acq/forms/documents/504.pdf>

Performance Bond (form PWGSC-TPSGC 505)
http://www.tpsqc-pwgsc.gc.ca/app-acq/forms/documents/505_eng.pdf

Labour and Material Payment Bond (form PWGWSC-TPSGC 506)
<http://www.tpsqc-pwgsc.gc.ca/app-acq/forms/documents/506.pdf>



Standard Acquisition Clauses and Conditions (SACC) Manual

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/R>

PWGSC, Industrial Security Services

<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>

PWGSC, Code of Conduct and Certifications

<http://www.tpsgc-pwgsc.gc.ca/app-acq/cndt-cndct/contexte-context-eng.html>

Construction and Consultant Services Contract Administration Forms Real Property Contracting

<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>

Declaration Form

<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>

Trade agreements

<https://buyandsell.gc.ca/policy-and-guidelines/Policy-and-Legal-Framework/Trade-Agreements>



CONTRACT DOCUMENTS (CD)

1. The following are the Contract Documents:
 - a. Contract Page when signed by Canada;
 - b. Duly completed Bid and Acceptance Form and any Appendices attached thereto;
 - c. Drawings and Specifications;
 - d. General Conditions and clauses

GC1	General Provisions – Construction Services	R2810D (2017-11-28);
GC2	Administration of the Contract	R2820D (2016-01-28);
GC3	Execution and Control of the Work	R2830D (2018-06-21);
GC4	Protective Measures	R2840D (2008-05-12);
GC5	Terms of Payment	R2850D (2019-11-28);
GC6	Delays and Changes in the Work	R2860D (2019-05-30);
GC7	Default, Suspension or Termination of Contract	R2870D (2018-06-21);
GC8	Dispute Resolution	R2880D (2019-11-28);
GC9	Contract Security	R2890D (2018-06-21);
GC10	Insurance	R2900D (2008-05-12);
GC11	Allowable Costs for Contract Changes Under GC6.4.1	R2950D (2015-02-25);

- e. Supplementary Conditions
 - f. Any amendment issued or any allowable bid revision received before the date and time set for solicitation closing;
 - g. Any amendment incorporated by mutual agreement between Canada and the Contractor before acceptance of the bid; and
 - h. Any amendment or variation of the contract documents that is made in accordance with the General Conditions.
2. The documents identified by title, number and date above are incorporated by reference and are set out in the Standard Acquisition Clauses and Conditions (SACC) Manual, issued by Public Works and Government Services Canada (PWGSC). The SACC Manual is available on the PWGSC Web site: <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>
3. The language of the contract documents is the language of the Bid and Acceptance Form submitted.



SUPPLEMENTARY CONDITIONS (SC)

SC01 INDUSTRIAL SECURITY RELATED REQUIREMENTS, DOCUMENT SAFEGUARDING

There is no document security requirement applicable to this Contract.

SC02 LIMITATION OF LIABILITY

GC1.6 of R2810D is deleted and replaced with the following:

GC1.6 Indemnification by the Contractor

1. The Contractor shall indemnify and save Canada harmless from and against all claims, demands, losses, costs, damages, actions, suits, or proceedings whether in respect to losses suffered by Canada or in respect of claims by any third party, brought or prosecuted and in any manner based upon, arising out of, related to, occasioned by, or attributable to the activities of the Contractor in performing the Work, provided such claims are caused by the negligent or deliberate acts or omissions of the Contractor, or those for whom it is responsible at law.

The Contractor's obligation to indemnify Canada for losses related to first party liability shall be limited to:

- a. In respect to each loss for which insurance is to be provided pursuant to the insurance requirements of the Contract, the Commercial General Liability insurance limit for one occurrence as referred to in the insurance requirements of the Contract .
- b. In respect to losses for which insurance is not required to be provided in accordance with the insurance requirements of the Contract, the greater of the Contract Amount or \$5,000,000, but in no event shall the sum be greater than \$20,000,000.

The limitation of this obligation shall be exclusive of interest and all legal costs and shall not apply to any infringement of intellectual property rights or any breach of warranty obligations.

3. The Contractor's obligation to indemnify Canada for losses related to third party liability shall have no limitation and shall include the complete costs of defending any legal action by a third party. If requested by Canada, the Contractor shall defend Canada against any third party claims.
4. The Contractor shall pay all royalties and patent fees required for the performance of the Contract and, at the Contractor's expense, shall defend all claims, actions or proceedings against Canada charging or claiming that the Work or any part thereof provided or furnished by the Contractor to Canada infringes any patent, industrial design, copyright trademark, trade secret or other proprietary right enforceable in Canada.



5. Notice in writing of a claim shall be given within a reasonable time after the facts, upon which such claim is based, became known.

SC03 INSURANCE TERMS

1) Insurance Contracts

- (a) The Contractor must, at the Contractor's expense, obtain and maintain insurance contracts in accordance with the requirements of the Certificate of Insurance. Coverage must be placed with an Insurer licensed to carry out business in Canada.
- (b) 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.

2) Period of Insurance

- (a) The policies required in the Certificate of Insurance must be in force from the date of contract award and be maintained throughout the duration of the Contract.
- (b) The Contractor must be responsible to provide and maintain coverage for Products/Completed Operations hazards on its Commercial General Liability insurance policy, for a period of six (6) years beyond the date of the Certificate of Substantial Performance.

3) Proof of Insurance

- (a) Before commencement of the Work, and no later than thirty (30) days after contract award, the Contractor must deposit with Canada a Certificate of Insurance.
- (b) Upon request by Canada, the Contractor must provide originals or certified true copies of all contracts of insurance maintained by the Contractor pursuant to the Certificate of Insurance.

4) Insurance Proceeds

In the event of a claim, the Contractor must, without delay, do such things and execute such documents as are necessary to effect payment of the proceeds.



5) **Deductible**

The payment of monies up to the deductible amount made in satisfaction of a claim must be borne by the Contractor.

SC04 ASPHALT CEMENT PRICE ADJUSTMENT

Not Applicable

SC05 ELEVATOR MAINTENANCE REQUIREMENT

Not Applicable



BID AND ACCEPTANCE FORM (BA)

BA01 IDENTIFICATION

Electrical Installation at the Marble Mountain Radar Site
Top of Ski Hill, Marble Mountain Ski Resort,
Exit 8, Trans Canada Highway,
Corner Brook, NF A2A 2N2

BA02 LEGAL NAME AND ADDRESS OF BIDDER

Legal Name: _____

Operating Name (if any): _____

Address: _____

Telephone: _____ Fax: _____ E-mail: _____

BA03 THE OFFER

The Bidder offers to Canada to perform and complete the Work for the above named project in accordance with the Bid Documents for the Total Bid Amount of

\$ _____
excluding Applicable Tax(es) (amount in numbers).

BA04 BID VALIDITY PERIOD

The bid must not be withdrawn for a period of **120 days** following the date of solicitation closing.

BA05 ACCEPTANCE AND CONTRACT

Upon acceptance of the Bidder's offer by Canada, a binding Contract will be formed between Canada and the Bidder. The documents forming the Contract will be the Contract Documents identified in "Contract Documents (CD)" section.

BA06 CONSTRUCTION TIME

The Contractor must perform and complete the Work within 48 weeks from the date of notification of acceptance of the offer.

BA07 BID SECURITY

The Bidder must enclose bid security with its bid in accordance with G108 - Bid Security Requirements of R2710T - General Instructions - Construction Services - Bid Security Requirements.

BA08 SIGNATURE

Name and title of person authorized to sign on behalf of Bidder (Type or print)

Name & Title (*printed*):

Signature:

Date:



APPENDIX 1 - PRICE FORM

The following is a breakdown of major item prices, inclusive of supply and installation cost, which are included in the total Tender Price submitted by: _____ (enter name of Tenderer) in the completion of works for this project.

QTY	TASK	PRICE PER UNIT	PRICE TOTAL
Arranged services and permits			
1 ea.	Obtain local authority permit as required for electrical utility connection		
<i>Subtotal:</i>			\$ -
Excavation and Trenching			
600m	Excavate in order to provide minimum of 750mm cover. (Including backfill & compaction of trenching as backfill material as required)		
100m	Rockbreaking if required		
	Mechanical protection if required		
<i>Subtotal:</i>			\$ -
Conduit installation			
8m	Supply and extend approximately 8m of conduit to final transformer and pull pit locations		
1 ea.	Supply and install one telco demarcation point (pull pit)		
3 ea.	Supply and install 6ft of 4in conduit on either side of fence, and encase the conduits in concrete		
<i>Subtotal:</i>			\$ -
Electrical Infrastructure: Switchgear			
1 ea.	Supply S&C Electric PMH-4 Switchgear		
1 ea.	Construct concrete pad; supply and install of ground loop & four grounding rods 19mm x 3000mm per drawing		
1 ea.	Installation costs: all other infrastructure, materials, equipment, labour & connection to existing switchgear.		
<i>Subtotal:</i>			\$ -
Electrical Infrastructure: Transformer			
1 ea.	Supply 75kVA 12.5kV(3ph) - 120/240V(1ph) Cooper/Eaton Xfmr Shrubline		
1 ea.	Construct concrete pad; supply and install of ground loop & four grounding rods 19mm x 3000mm per drawing		
4 ea.	Supply and install bollards as per drawing and specifications at the transformer pad location		
1 ea.	Installation costs: all other infrastructure, materials (Accessories as per Marble Electrical Spec Sect:26 12 19 / Subsection 9.0) equipment, labour & connection		
<i>Subtotal:</i>			\$ -
Cables & Grounding			



1300m (2 runs 650m)	Supply two direct buried primary electrical power cables (15kV 1/0 AWG Double seal - Prysmian Cables or equivalent from old to new switchgear; and from new switchgear to a new distribution transformer at the radar station		
620m	Supply a direct buried telco/data 12 pair cable (CELFIL 12Pair Copper, Superior Essex PN: 85-028-13) from the chair lift building at the top of the ski hill and run underground in the same trench as the High Voltage conductors to the weather radar shelter		
25m	Supply 3/C 500MCM AWG Copper RW90		
25m	Supply #1 TW Ground Copper		
1 ea.	Installation costs : Install cables and make all terminations to communications equipment and power distribution equipment		
<i>Subtotal:</i>			\$ -
Final Connection and Commissioning			
1 ea.	Testing, Commissioning, Inspection and Start-up of electrical service		
1 ea.	Misc material required / Other		
<i>Subtotal:</i>			\$ -
Training & Documentation			
1 ea.	Provide construction drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada		
1 ea.	Provide all documentation as required for new equipment maintenance and installation (including but not limited to Commissioning Plan, OEM manuals and AS-BUILT drawings)		
<i>Subtotal:</i>			\$ -
OPTIONS : If requested by ECCC ONLY:			
1 ea.	Design and install maintainable top protection for transformer. Includes all materials, equipment, labour and other costs		
1 ea.	Provide up to 4hrs on site Training for up to 4 people		
	Arrange consulting services from Marble Mountain Operations Manager prior to, and during any excavation activity.	\$100/hr (up to 40 hours pro-rata)	\$ 4,000.00
OPTION Subtotal:			
Total Bid Amount			



APPENDIX 2 - INTEGRITY PROVISIONS

Environnement et Changement climatique Canada a adopté le régime d'intégrité développé et mis en place par Services publics et Approvisionnement Canada. Les fournisseurs acceptent, en soumettant une proposition, de se conformer aux dispositions du régime d'intégrité et la *Politique d'inadmissibilité et de suspension* ainsi que le *Code de conduite pour l'approvisionnement*. / Environment and Climate Change Canada has endorsed the Integrity Regime developed and implemented by Public Services and Procurement Canada. By submitting a quote, Contractors agree to comply with the provisions of the Integrity Regime and *Ineligibility and Suspension Policy* as well as the *Code of Conduct for Procurement*.

Selon la *Politique d'inadmissibilité et de suspension* de TPSGC (maintenant SPAC), les renseignements suivants doivent être fournis lors d'une soumission ou de la passation d'un marché.¹ / In accordance with the PWGSC (now PSPC) *Ineligibility and Suspension Policy*, the following information is to be provided when bidding or contracting.¹

* Informations obligatoires / Mandatory Information

*Dénomination complète de l'entreprise / Complete Legal Name of Company	
*Nom commercial / Operating Name	
*Adresse de l'entreprise / Company's address	*Type d'entreprise / Type of Ownership
	<input type="checkbox"/> Individuel / Individual <input type="checkbox"/> Corporation / Corporation <input type="checkbox"/> Coentreprise / Joint Venture
*Membres du conseil d'administration² / Board of Directors² (Ou mettre la liste en pièce-jointe / Or provide the list as an attachment)	
Prénom / First name	Nom / Last Name
	Position (si applicable) / Position (if applicable)

¹ **Liste des noms** : Tous les fournisseurs, peu importe leur situation au titre de la Politique, doivent présenter les renseignements ci-dessous au moment de prendre part à un processus d'approvisionnement:

- les fournisseurs constitués en personne morale, y compris ceux qui présentent une soumission à titre de coentreprise, doivent fournir la liste complète des noms de tous les administrateurs actuels ou, dans le cas d'une entreprise privée, des propriétaires de la société;
- les fournisseurs soumissionnant à titre d'entreprise à propriétaire unique, y compris ceux soumissionnant en tant que coentreprise, doivent fournir la liste complète des noms de tous les propriétaires;
- les fournisseurs soumissionnant à titre de société en nom collectif n'ont pas à soumettre une liste de noms.

List of names: All suppliers, regardless of their status under the Policy, must submit the following information when participating in a procurement process:

- suppliers that are corporate entities, including those bidding as joint ventures, must provide a complete list of the names of all current directors or, for a privately owned corporation, the names of the owners of the corporation;
- suppliers bidding as sole proprietors, including sole proprietors bidding as joint ventures, must provide a complete list of the names of all owners; or
- suppliers that are a partnership do not need to provide a list of names.

² Conseil des gouverneurs / Board of Governors; Conseil de direction / Board of Managers; Conseil de régents / Board of Regents; Conseil de fiducie / Board of Trustees; Comité de réception / Board of Visitors



ANNEX A – STATEMENT OF WORK

1. Purpose

The following statement of work describes the requirements to complete and upgrade the electrical service required to provide 120/240V single-phase power to the Marble Mountain Radar site via the ski-hill owned Medium Voltage switchgear (12.5KV), along with replacement of the analog communications cable. The site is located at the top of the Marble Mountain Ski Resort in Newfoundland. Work must be completed by June 2022.

2. Objectives

The objectives of this work, from the top chair lift to the radar ground shelter, are:

- a. To supply and install a PMH-4 switch (S&C Electric) near the existing switch located approx. 40m downhill from the ski lift. New conductors will be installed and terminated between the existing and new switchgear;
- b. To supply and install two direct buried primary electrical power cables (15kV 1/0 AWG Double seal - Prysmian Cables or equivalent) from new switchgear to a new distribution transformer at the radar station for approximately 650m (1300m total);
- c. To supply and install a direct buried telco/data 12 pairs cable (CELFIL 12Pair Copper) from the chair lift building at the top of the ski hill and run the cables underground in the same trench as the Medium Voltage conductors to the weather radar site for approximately 620m;
- d. To supply and install 75kVA Transformer (Eaton/Cooper Shrubline 12.5KVΔ 3ph – 120/240V 1ph) at the radar site;
- e. To supply and extend approximately 8m of existing power/telco 4in conduits from current temporary terminations to final termination locations (to be determined for the telco pull pit and transformer pad);
- f. To supply and install approximately 20m of secondary power cable (3/C 500MCM AWG Copper RW90 and #1 TW Ground Copper) in the 4in conduit from 75kVA transformer to radar shelter disconnect main switch.
- g. To make all terminations to communications equipment and power distribution equipment; and
- h. To provide connectivity from the ski-hill electrical power utility to the ground shelter main disconnect.

The ground shelter supplied at the site has already passed a CSA field evaluation inspection. The electrical provider will plan for 400A service equipment ratings however internal service entrance is fused at 300A service.

3. Requirements and Tasks

All work must be done in accordance with the specifications listed in:

- IFT-Marble High Voltage Radar Installation – Electrical Set.pdf (Printable size: 24" x 36")
- Marble - Electrical Spec.pdf (Construction Specification Canada (CSC) detailed information)
- Marble Mountain Electrical - Supplementary Drawings.pdf
- The latest version of the Canadian Electrical Code (CEC)
- NL Hydro Regulations
- Marble Electrical Quote Sheet.xlsx (for the bid answer)

It is crucial that bidder gets familiar with the documents above.

3.1 Arranged services and permits:

- a. Contractor is responsible for all locates prior to digging.



- b. Contractor is responsible for pulling a local authority electrical permit as required for electrical utility connection.
- c. Contractor is required to arrange and schedule any power outages with the Marble Mt. Operations Manager as required.
- d. Marble Mt. Operations Manager to confirm in person and in writing that any damages are repaired to their satisfaction prior to continuing.
- e. Installation must pass inspection by Regional Electrical Inspection authority before final connection to Radar.

3.2 Excavation and Trenching:

- a. The contractor shall excavate a trench from chair lift existing PMH-4 switchgear to radar site demarcation point (transformer pad) in order to provide minimum of 750mm cover (as per Table 53 of the CEC). The excavation distance is estimated at 600m in the middle of the existing gravel road (use existing trenching up roadway).
- b. Rock breaking could be required for approximately 100m near chair lift.
- c. At the discretion of the contractor, if the minimum cover is not feasible due to exposed bedrock, the minimum cover requirements may be reduced by 150mm where mechanical protection is placed in the trench over the underground installation as per 12-012 (3) CEC.
- d. Where possible, the old power and communication cables should be removed and disposed.
- e. Backfilled trench along roadway must achieve the same grade as before excavation – compaction must be sufficient to ensure road will not wash away.
- f. Other excavated terrain must be restored to original condition.

3.3 Conduit installation:

- a. Two 4in conduits were installed during foundation work from radar shelter to a location near the demarcation point (transformer pad) for power and telco cables.
- b. The contractor shall supply and extend approximately 3m of existing power conduit from current location to transformer pad.
- c. The contractor shall supply and extend approximately 5m of existing telco conduit from demarcation point (transformer pad) to the telco pull pit.
- d. The contractor shall supply and install a telco pull pit at the junction of the direct buried cable to the 4in conduit as per IFT-Marble High Voltage Radar Installation – Electrical Set.pdf.
- e. Communications cable to cross above primary power before transformer. Ensure 300mm vertical separation.
- f. Where power and telco cables cross fence line: Supply and install 6ft of 4in conduit on either side of fence, and encase the conduits in concrete.
- g. All buried conduits to be 4" Rigid PVC DB2 conduit or better (no thin-wall duct)
- h. All buried corners to use up to a maximum 90 degree long radius bends per direction change with a maximum 360 degree direction change per total conduit run.

3.4 Electrical Infrastructure:

- a. The contractor shall built a concrete pad suitable to mount the new PMH-4 switch (S&C Electric) nearby the chair lift. Design plan shall be submitted with the bid. Final Location to be approved by Marble Mt. Operations Manager.
- b. The contractor shall built a concrete pad suitable to mount 75kVA Transformer as per specifications from IFT-Marble High Voltage Radar Installation – Electrical Set.pdf as the radar site location. Final Location to be approved by ECCC.
- c. The contractor shall supply and install a new PMH-4 switch (S&C Electric).



- d. The contractor shall supply and install 75kVA Transformer (Eaton/Cooper Shrubline 12.5KVΔ 3ph – 120/240V 1ph) and including all custom accessories outlined in Electrical Spec #26 12 19 Section 9.1.
- e. The contractor shall supply and install a minimum of four (4) bollards as per drawing and specifications at the transformer pad location.
- f. All OEM installation/operational manual shall be provided in paper and electronic version.

3.5 Cables & Grounding:

- a. The contractor shall supply and install two direct buried primary electrical power cables (15kV 1/0 AWG Double seal - Prysmian Cables or equivalent from existing to new switchgear; and from new switchgear to a new distribution transformer at the radar station for approximately 650m (1300m total);
- b. The contractor shall supply and install 3/C 500MCM AWG Copper RW90 and #1 TW Ground Copper in the 4in conduit from distribution transformer to radar shelter disconnect main switch.
- c. The contractor shall supply and install a direct buried telco/data 12 pairs cable (CELFIL 12Pair Copper, Superior Essex PN: 85-028-13) from the chair lift building at the top of the ski hill and run underground in the same trench as the medium voltage conductors to the weather radar shelter for approximately 620m (inside the radar shelter).
- d. The contractor shall supply and install all grounding electrical infrastructure, including switchgear transformer pads loops and grounding rods, primary and secondary power cable grounding requirement.
- e. A minimum clearance of 1 metre shall be between the ground rods and the power and signal cables. The bonding conductor shall be protected from mechanical damage.
- f. The contractor shall make all terminations to communications equipment and power distribution equipment.
- g. The contractor shall make all terminations to communications equipment and power distribution equipment (PMH-4 switch to switch wiring should be performed as early as possible to avoid future excavation).

3.6 Final Connection and Commissioning:

- a. The purpose of the commissioning process is to fully test all systems including mechanical and electrical components and operating procedures by challenging these systems to realistic operation conditions as recommended by the manufacturer. Commissioning must adhere to Marble – Electrical Spec.pdf.
- b. The contractor shall provide a commissioning plan prior to final power connection to be reviewed and approved by ECCC.
- c. Liaise with ski hill operations to work with their equipment.
- d. Final electrical connection to radar to be completed following successful commissioning.
- e. The contractor shall provide signed electronic version of the commissioning report by certified NL electrician or Professional Engineer.

3.7 Training and Documentation:

- a. AS-BUILT drawings related to the construction of the project must be provided to ski resort representative and copies to ECCC according to Marble – Electrical Spec.pdf.
- b. All OEM provided manuals and documents must be provided to the ski resort representative, with copies being provided to ECCC (paper and electronic versions).

3.8 OPTIONS: If requested by ECCC ONLY:



- a. Arrange consulting services from Marble Mt. Operations Manager throughout construction to prevent damage to buried ski-hill infrastructure (\$100/hr and up to 40hrs pro-rata).
- b. Offer up to 4hrs of maintenance and operational training on the new equipment for up to four Marble Mountain operations staff.
- c. Design, install and supply a protective, maintainable roof to protect the transformer near the radar site from falling ice.

4. Firm Deliverables:

- a. Complete all task per Requirements and Tasks section 3.1 to 3.7;
- b. Provide a DRAFT detailed work schedule for the completion of all tasks;
- c. Provide construction drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada;
- d. Provide local authority electrical permit as required for electrical utility connection;
- e. Provide switchgear concrete pad design for approval before start of any work on site;
- f. Provide operational and maintenance documentation to ECCC and the Ski Hill operations staff (paper and electronic version);
- g. Provide commissioning plan no later than 2 weeks before power connection;
- h. Provide signed electronic version of the commissioning report by certified NL electrician or Professional Engineer;
- i. Provide AS-BUILT drawings related to the construction of the project must be provided to ski resort representative and copies to ECCC according to Marble – Electrical Spec.pdf; and
- j. Provide all OEM provided manuals and documents must be provided to the ski resort representative, with copies being provided to ECCC (paper and electronic versions).

5. OPTION Deliverables:

If requested by ECCC ONLY:

- a. Arrange consulting services from Marble Mt. Operations Manager throughout construction to prevent damage to buried ski-hill infrastructure (\$100/hr and up to 40hrs pro-rata).
- b. Offer up to 4hrs of maintenance and operational training on the new equipment for up to four Marble Mountain operations staff.
- c. Design, install and supply a protective, maintainable roof to protect the transformer near the radar site from falling ice.

6. Schedule:

Completion of entire scope of work by: June 22, 2022.

- a. Work on this contract is unavailable to be performed during ski season. Access road may be closed from first snowfall in October 2021 until May 2022.
- b. Following ski resort season, and snow free access to radar site, the contractor will be able to start trenching work as soon as possible.
- c. Transformer and bollards installation could delayed until radar antenna installation is completed. To be confirmed upon final schedule approved from Radar main contractor.
- d. Cables and switchgear may be partially installed, but must be secured from theft and vandalism – loss/theft is at the risk of the contractor.
- e. Partial payments allowed based on costing table items.



7. Mandatory Contractor qualification requirements:

- a. Where applicable, the contractor must be licensed by the provincial authority for the type of work being conducted.
- b. Electrical work must be performed by, or inspected by a Code 1 Electrician - Newfoundland Chief Inspector's Representative:

<https://www.assembly.nl.ca/legislation/sr/regulations/rc969120.htm#7>

8. Damages:

Any damages to buried or aboveground structures such as cables, piping, or buildings that occurred while performing the deliverable activities are the responsibility of the contractor to repair and must be reported within 12 hours. Repairs must be performed to the satisfaction of the Marble Ski-Hill operations manager or ECCC. All repairs to be completed within 48 hours of the damage occurrence or within a timeline agreed by all parties.

9. Departmental Support:

ECCC may provide site layouts and documentation with approximate service locations. Access to the work location must be coordinated through ECCC.

10. Official Language:

The work is being performed in English.

11. Work Location:

This work will be conducted at the Marble Mt. Weather Radar site. The civic address for this site is:

Top of Ski Hill, Marble Mountain Ski Resort,
Exit 8, Trans Canada Highway,
Corner Brook, NF A2A 2N2

Lat: 48° 55' 48.9" N (48.93025)
Long: 57° 50' 4.6" W (-57.83462)



12. Travel:

No travel costs are included, contracted work is to be conducted at the location specified above.

13. Security Clearance:

Site access control is in place. No special security clearances are required. ECCC personnel or a representative may be on site to provide escort.