



INVITATION TO TENDER

Amendment #1

RETURN BIDS TO:

**Parks Canada Agency - Central Registry
Contracting Operations
111 Water Street East
Cornwall, Ontario, K6H 6S2
Solicitation No. 5P201-19-0159/A**

Tender to: Parks Canada Agency

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.

Comments:

Vendor/Firm Name and Address:

Issuing Office

**Parks Canada Agency - Central Registry
Contracting Operations,
111 Water Street East
Cornwall, Ontario, K6H 6S2**

Title-Sujet Waste incinerator upgrade for Sable Island National Park Reserve		
Solicitation No. - No. de l'invitation 5P201-19-0159/A	Date: December 8, 2019	
GETS Reference No. – No de reference de SEAG: PW-19-00898484	Client Ref. No. – No. de réf du client. 2005	
Solicitation Closes (YY-MM-DD):		
at – à 2:00 PM	on – le 2019-12-19	Time Zone - Fuseau horaire : EST - HNE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Inquiries to: Adresser toute demande de renseignements à : Sheldon Lalonde (sheldon.lalonde@canada.ca)		
Telephone No. - No de téléphone (613) 938-5948	Fax No. – No de FAX: (877) 558-2349	
Destination of Goods, Services, and Construction: Destinations des biens, services et construction : See Herein – Voir aux présentes		
TO BE COMPLETED BY THE BIDDER (type or print) À ÊTRE COMPLÉTER PAR LE SOUMISSIONNAIRE (taper ou écrire en caractères d'imprimerie)		
Vendor/Firm Name – Nom du fournisseur/de l'entrepreneur		
Address - Adresse		
Name of person authorized to sign on behalf of the Vendor/Firm Nom de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur		
Titale - Titre		
Telephone No. - N° de téléphone : _____		
Facsimile No. - N° de télécopieur : _____		
Signature	Date	

AMENDMENT #1

December 8, 2019

THE PURPOSE OF THIS AMENDMENT IS TO GIVE EFFECT TO THE FOLLOWING CHANGE;

1) SI03 Bidders' Conference:

A bidders' conference will be held at **1869 Upper Water Street, Halifax, NS B3J 1S9** on **December 12, 2019**. The conference will begin at **01:00 pm (local), in Room CS-218, 2nd floor of the Carpenter Shop**. The scope of the requirement outlined in the bid solicitation will be reviewed during the conference and questions will be answered. It is recommended that bidders who intend to submit a bid attend or send a representative.

Bidders are requested to communicate with the Contracting Authority before the conference to confirm attendance. Bidders should provide, in writing, to the Contracting Authority, the name(s) of the person(s) who will be attending and a list of issues they wish to table no later than forty-eight (48) hours.

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 will not be precluded from submitting a bid.

2) “PCA - Sable Waste Management SOW EN” is to be deleted in its entirety and replaced by **“PCA - Sable Waste Management SOW EN”** attached below.

ALL OTHER TERMS AND CONDITIONS OF THE ITT REMAIN UNCHANGED.

STATEMENT OF WORK (Amdt #1)

Sable Island Waste Management System Upgrade Sable Island National Park Reserve

November 22, 2019

Site: The site location is on Sable Island National Park Reserve. Sable Island is a remote island located approximately 300 km Southeast of Halifax Airport in the Atlantic Ocean. Access to the site is accomplished either by vessel and landing craft, by various types of charter fixed wing aircraft, or by helicopter. The project site is located at Main Station.

Transportation: For this project Parks Canada Agency will provide transportation to and from the island via fixed wing aircraft or helicopter for staff to Halifax airport. PCA's air charter contract is with Sable Aviation which operates a BN-2A Britten Norman Islander from Halifax Airport. Their address is 645 Pratt and Whitney Drive, Nova Scotia. If an alternate aircraft is used, PCA will provide details. The Contractor will be responsible for all transportation of staff to the YHZ Halifax airport.

For this project PCA will provide transportation for equipment and materials from Dartmouth to the island and back. Equipment and materials to be delivered to Dominion Diving in Dartmouth, to be transported to the island via sealift. PCA will unload the sealift on Sable Island. Contractor to secure all equipment and material to pallets, wrap pallets to protect from precipitation and sea spray during transport, and deliver all equipment to Dominion Diving Ltd, 7 Canal Street, Dartmouth NS. Loads to be less than 900 kg. An inventory of materials to be delivered must be provided and coordinate transportation with PCA. Include number of pallets, contents, weight of each pallet and TDG information.

General Description of Work: Work under this contract covers all materials, labour and equipment required for the removal of the existing waste incinerator and the supply and installation of a new multi-purpose waste incineration system and electrical components.

Sable Island NPR is a unique remotely located place and as such must be protected from any damage due to construction activities on the site. Preservation of existing ecosystem and wild life shall be given the highest priority during construction. Any damage which occurs shall be repaired at the Contractor's cost.

The Contractor shall be deemed to have experience working in remote location, become fully familiar with all conditions relative to carrying out the work. There shall be no consideration given to claims resulting from the Contractor's failure to carry out sufficient site investigations prior to quoting on the work.

Health and Safety: Health and Safety is of the utmost importance for PCA. Should an injury or medical emergency occur that requires expertise not available on the island, medical personnel must be flown in by aircraft which could take hours or days.

The Contractor is required to provide a site specific health and safety plan to PCA for review a minimum of 15 days before departing for the island. The Contractor is required to make any required edits prior to departing for the island and a copy of the final, approved plan must be on the island during the project.

All Contractors personnel, including sub-contractors must attend a 1 hour island orientation upon arrival to Sable Island. Contractor to have daily tailgate safety meetings, when possible, PCA will participate in these meetings. Parks Canada reserves the right to stop all work at no expense to Parks Canada if health and safety concerns are noted.

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The Contractor must work in accordance with WHMIS and have the appropriate MSDS documentation on site for hazardous materials. Should the Contractor uncover a substance that could be considered hazardous during the project they must immediately notify the Operations Coordinator.

Known risks include working at heights, hot work, lock-out tag-out, there is known asbestos in the door gaskets of the incinerator and in the roofing tar. Contractor to separate asbestos containing material from the other waste and properly identified and stored for disposal. See appendix for HAZMAT report. The ash in the incinerator will be removed prior to construction starting, however some residual ash may still be in the incinerator; this is to be factored into the removal procedures. PCA has ash containers on the island the contractor can use to collect the ash. PCA will dispose of all waste.

During hot work and for 2-hours after any activity with potential to produce ignition sources or excess heat, ensure the attendance of trained fire-watch personnel to monitor, investigate and respond to conditions. A final inspection of the hot work area and adjacent exposed areas shall be conducted 2 hours after completion of the work. Contractor to include hot work procedure in safety plan.

It is the Contractors responsibility to provide all required PPE to all site workers such as safety glasses, work boots, respirators, protective clothing, hearing protection, hard hats, etc. Parks Canada does not have PPE on site for the Contractors use.

Transportation of Dangerous Goods: All materials traveling by aircraft must adhere to transportation of Dangerous Goods Regulations. If you must transport hazardous materials, they must be packaged properly and be accompanied with proper TDG documentation. Documentation must be provided to the pilot prior to loading aircraft. All TDG requirements are the responsibility of the contractor. TDG information to be provided to PCA minimum 3 days before any sealift or flight is scheduled.

Scope of Work: The current waste incinerator is located in the Incinerator Building near Main Station on Sable Island. It is powered via an underground 600v electrical line running from the APU building. The system has reached the end of its service life and the intent of this work is to replace the system with a fully function new system. The work includes but may not be limited to:

1. Remove Old Incinerator – The existing system is a Consumat System Inc, C-32PKD. This unit has an approximate total weight of 3000 kg (6600 lbs). The unit and smoke stack are to be dismantled and broken down into sections weighing less than 900 kg (1990 lbs) and stored on pallets at Main Station, for PCA to dispose of at a later date. Separate asbestos containing material into separate designated pallets. Gas powered cutting torches are not allowed, all cutting must be completed with mechanical tools.

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2. Remove old electrical equipment, including 600v transformer, 50A panel, wiring from panel board to incinerator, etc. Store removed items securely on contractor supplied palettes (less than 900kg) at Main Station, for PCA to dispose of at a later date. Leave existing lights and outlets in place, and tied into new panel board. Existing underground electrical line from APU Building to Incinerator Building to remain in place and be terminated at both ends and label as abandoned incinerator feed.
3. Supply and install new incinerator unit with all required components - Consumate System Inc, C-18PKD or approved equivalent. Process minimum 60 lb/hr Type 4 Pathological Waste. Dual chamber design with diesel burners. Unit must be broken down to fit through a 1219mm (48 inch) wide doorway, with components weighing less than 900 kg (1990 lbs.) Any required welding to be completed with an experienced welder, provide copies of certificate, and perform all manufacture required testing and preparation. Supply and install new fuel lines running to fuel storage area in adjacent room through concrete block wall, with ball valves on both sides of the wall, fire valves in the incinerator room, and new fuel filter system located in fuel storage room, as per manufacture recommendations.
4. Supply and install new vent stack, with support wires, as per manufactures specifications. Install new stack in existing roof penetration. Support wires to be stainless steel 304 or 316, and tied into existing mounting points on the roof with SS turnbuckles. Scrape, prime and paint existing mounting points with black metal epoxy paint. Supply and install new roof flashing and waterproof membrane around the stack roof penetration and ensure it is water tight, and can handle the high temperatures from the unit.
5. Supply and install new electrical equipment – splitter box, 20A-2P enclose breaker, 600v-120/240 7.5kva transformer with new mount, 100-amp panel board, grounding wires and rods, teck cable to the incinerator, lamacoid labels, mount equipment in the same locations as the existing items. See attached single line drawing for reference.
6. Supply and install new electrical power feed run on grade approx. 360m long. Teck 90 Cable, RW90, 1000v, interlocking aluminium, PVC moisture resistant material FT4 rated, UV resistant, black colour, from the APU power supply building to the Incinerator building, and connect into the power system. 3 conductor #4 AWG. Run on grade, except where line crosses existing roadway. Two locations the feed to be buried 1150 mm deep, non-pressure treated boards placed 150mm above feed, with red tape, approx. 40 m total length to be buried. See reference drawings for approx. proposed route, exact location will be verified in the field with Departmental Representative.

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7. Temporarily remove and reinstate the staircase at the Incinerator building to complete the work. Remove existing door and frame to the incinerator room and replace with new corrosive resistant fibreglass door and frame from Edwards Door System or approved equivalent, matching the existing size. Hurricane rated, polyurethane core. Hardware to be stainless steel (304/316): hinges, handles, threshold, and two sliding barrel bolts on the exterior face. Door to have weather stripping seal and door sweep. Break down old door and frame and secure on pallets for disposal.
8. Carry out all required electrical installation and connections as required with a certified electrician licensed in the province of Nova Scotia.
9. Commission new unit and demonstrate functionality once installation is complete to the Departmental Representative. Contractor to remain on island until unit is fully functional.
10. Submit O&M manual for new equipment, with all components identified, suppliers, cut sheets, manufacture drawings, red-line drawings, maintenance requirements, warranties, etc. Submit digital version in pdf format on a flash drive and 3 paper copies in 3 ring binders.
11. Provide remote training from manufacture on the operation of the new system. Provide a video from the manufacture demonstrating the full operation of the unit. Outline any maintenance requirements. Provide a 3-hour video conference call with the manufacture to discuss any concerns about the new system for the PCA staff.
12. The Contractor shall supply all labour, tools, materials, equipment, and supervision necessary (unless specified) to perform the prescribed work. Contractor is responsible to verify all measurements and sizes on site prior to ordering new equipment. PCA will provide one flight to Sable Island after award for up to 2 contractor staff to inspect the work area and take all required measurements. The inspection will be a day trip, with no overnight stay.
13. Execute cutting, fitting and patching required to make work fit properly. Seal all wall penetration with Dymonic 100. Review items to be cut, fitted, patched, etc.

Equipment on the Island:

1. PCA operates a Bobcat T650 skid steer on the island with a 900kg/2000 lbs lifting capacity. PCA will operate the machine, which can be used during the project.

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2. PCA operates a Millermatic 140 mig welder on the island. This unit is available to the contractor to use on the project, contractor to provide all consumables and PPE to complete any welding work and trained welding personnel. PCA will supply the gas for the unit, and a portable generator with 30A output. If larger welding equipment is required, contractor is to supply their own and transport on the sealift with the other equipment.

Contractor Duties:

1. All products and materials shall be new.
2. Order products specified from designated suppliers. Order in quantities and at times compatible with construction schedule and site storage capacity.
3. Transport, unload and handle before shipping to the island via sealift. PCA will unload sealift when it arrives on the island.
4. Promptly inspect delivered products, and give written report to the Project Manager on condition of all items received. Contractor to provide secure storage for purchased equipment prior to sealift to Sable Island, and transport all equipment to Dominion Diving in Dartmouth for loading on the sealift.
5. Pay demurrage charges.
6. Provide all tools and lifting equipment to complete the work.
7. Install, connect and finish products as specified.
8. Submit shop drawings, cut-sheets and equipment and product information for all items used on the project to Departmental Representative for review, as soon as possible after award, and to allow for materials to be shipped to meet the schedule.

Documents Required on site:

1. Specifications.
2. Addenda.
3. Reviewed shop drawings.
4. Change orders.
5. Other modifications to Contract.
6. Field inspection and test reports.
7. Copy of approved work schedule
8. Manufacturers' installation and application instructions.
9. All required provincial and federal safety requirements.
10. Site Specific Safety Plan

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Electrical equipment:

1. Enclosed moulded case circuit breaker, 600v, 20a, 2 pole, 10,000KA interrupting rating, NEMA type 4x enclosure, heavy duty. Supply spare 20a fuse.
2. 7.5kVa Epoxy encapsulated transformer, 600-120/240VAC, single phase.
3. Panelboard, 100A, 120/240, 3 wire, 24 circuits, surface mount, main lugs, single phase, Square D, NEMA 12 enclosure and branch breakers. Supply breakers to service new equipment, with spare 30A and 20A breaker. Load balance.
4. Splitter box, 600v, 60A, single phase, 3W, NEMA 12 enclosure and splitter blocks.
5. Ground rod copper clad steel, 21 mm diameter, 3m long.
6. Provide lamicoid nameplates on all equipment (electrical and mechanical), and abandoned power feed, with voltages, amp rating etc. listed.
7. Provide new fire retardant plywood for mounting equipment to walls, and use stainless mounting hardware.
8. See attached Single Line Diagram for reference.

Site Pictures: Contractor is responsible to take preconstruction pictures of the building, existing systems, new systems, the surrounding grass and work area, progress pictures and of the completed work. Supply pictures to Parks with the O&M manual submission. Digital format is acceptable on a contractor supplied thumb drive.

Accommodations on Island: Accommodations for contractors will be provided by PCA at no cost. Accommodations will be in available housing on the island in shared "dormitory" style rooms with common kitchen, washroom, and lounge areas and private or semi-private bedrooms. Bedrooms will be shared is dependent on building occupancy. There can be as many as 4 to a room in busy times. Contractor staff may be asked to group together in bedrooms at any time as required by the Parks Canada Operations Coordinator.

All Contractor staff are required to supply their own bedding, including pillows, towels and toiletries. There are laundry facilities on site and soap is provided. Toilet paper is provided. All Contractor staff must supply their own food, however kitchen facilities and potable water are provided. Glass bottles are discouraged. Contractor is requested to transport goods in recyclable plastic containers or cans where possible. Basic dishes, utensils, spices, appliances, cleaning supplies, etc. are provided. Contractor staff shall leave the facilities clean and are required to do their share of cleaning in a busy environment. Composting facilities are provided by Parks Canada for food waste. Garbage and recycling are picked up by PCA staff. Contractor staff shall remove their excess food when they leave the island, ensure the refrigerator is clean and empty and bedrooms are clean.

At start of project the Contractor must indicate how many staff will be on the island to complete the work and expected duration.

Communication on the Island: There is access to phone and internet that is subject to some restrictions. Use of these systems will be outlined by PCA Operations Coordinator. Streaming, gaming, heavy down/up loading, etc. is not permitted. There is Satellite TV in the common area of the Visitors Quarters to be shared with all users.

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Handheld radios may be provided to the Contractor to communicate with PCA staff. Should damage occur to the radio due to careless behavior, the cost to repair or replace may be the responsibility of the Contractor based on PCA discretion.

Wildlife: The Contractor must provide a 20 metre buffer between personnel and wildlife, which includes horses, seals and bird colonies. Should wildlife approach personnel while on the island or while working, you must attempt to safely move away and continue to provide a 20 metre buffer. Should wildlife become an issue, or you observe wildlife in distress, contact the Operations Coordinator.

Expected Weather: Sable Island has a unique weather environment that can be difficult to predict and can change within a short period of time. The Contractor **must be prepared to experience delays getting to and getting off the island** and downtime on the island when work cannot be completed due to weather such as high winds, lightning storm, heavy rain, fog, etc. The Contractor **must consider the high likelihood of weather delays** when procuring food, medical prescriptions and other supplies for the duration on the island and should not rely on planned re-supply flights to arrive on scheduled date. It is essential that should any member of the Contractor's work team require essential medication that they come to Sable with **at least double** the supply necessary for the length of stay. Should the Contractor run out of food due to extended delays in resupply or getting off the island, food can be supplied from Parks Canada at no cost to the Contractor.

The Contractor must review the weather forecasts on a daily basis to determine which days are best suited to work outside and/or work inside. Should the weather or other circumstances prevent safe working conditions outside the Contractor will make every effort to avoid downtime for on island staff. Should downtime be unavoidable, the Contractor must discuss with the Departmental Representative immediately. As stated delays are common both attempting to get on and off the island. Expect delays due to weather during. Contractor will not be compensated for delays while waiting on the mainland for flights to the island. Plan to have a potential of 3 days waiting for a schedule flight to return to the mainland after work is complete. Any potential delays must be reported to the Departmental Representative immediately. Any agreed delays will be negotiated using a daily standby rate.

Work Schedule:

1. The Contractor to submit work schedule, Gantt Chart format, to the Departmental Representative within five days of award of the Contract for approval by the Departmental Representative. Schedule will be approved or reject in writing. Rejected schedules to be revised within 5 days.
2. Equipment shall be ordered and stored in Halifax arriving before March 15, 2020, in preparation to be transported to the Island via barge in April/May 2020 (weather pending). Equipment to be delivered to Dominion Diving prior to scheduled departure date for loading, coordinate deliveries with PCA and Dominion Diving, and receive permission before delivering items.

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3. Removal of old equipment after the new equipment is delivered to the island. Depending on weather and station occupancy, work could be completed on the island from May 1 to October 31, 2020.
4. All work shall be completed by November 1/20.

Measurement and Payment: This project will contain several Lump Sum items. There shall be no measurement for payment associated with the work, completed items can be progress billed. Final payment will be release once the system is fully commissioned.

1. **Mobilization/Demobilization.** This will include all costs not included in any of the other items, and will include overhead, food, supplies, moving equipment to Dominion Diving in Dartmouth for the sealift., transportation to the airport, training, etc.
2. **Supply new incinerator unit and associated components.** This will include the cost to procure, receive, and provide storage for the incinerator and associated components in Halifax. Equipment to be received prior to March 15, 2020, once inspected and confirmed by PCA staff this item can be progress billed.
3. **Supply new electrical equipment and associated components.** This will include the cost to procure, receive, and provide storage for the power feed teck cable, breaker, transformer, splitter, panel board, grounding system, etc. and associated components in Halifax. Equipment to be received prior to March 15, 2020, once inspected and confirmed by PCA staff this item can be progress billed.
4. **Supply misc. equipment.** This item to include all costs for equipment not included in other supply items, including the new door, pallets and debris bags for waste storage, etc.
5. **Remove existing equipment.** This item to include the removal of existing incinerator, stack, electrical equipment etc., from the incinerator building and the relocation to the designated storage area and secured on pallets.
6. **Install new incinerator.** This item includes all the associated costs for the installation and assembly of the new incinerator, stack, fuel lines, valves, roof penetration flashings etc.
7. **Install new electrical feed and equipment.** This includes the costs for the installation of all new electrical equipment, ground and running the new power feed from the APU building to the incinerator building, all excavation required where the line crosses roadways, etc.

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Codes and Standards: All work shall conform to applicable Acts, Regulations, Codes and Standards, including but not limited to the most recent version of the following:

- a. National Building Code of Canada
https://www.nrc-cnrc.gc.ca/eng/publications/codes_centre/2015_national_building_code.html
- b. National Fire Code of Canada
https://www.nrc-cnrc.gc.ca/eng/publications/codes_centre/2015_national_fire_code.html
- c. Canada Labour Code Part II
<http://laws-lois.justice.gc.ca/eng/acts/L-2/index.html>
- d. Canada Occupational Health and safety Regulations
<http://www.fallpro.com/fall-protection-info-center/regulations/canada-federal/>
- e. Canadian Electrical Code
- f. All work must be performed in conformance with the attached Basic Impact Assessment (BIA).

Waste: The Contractor shall dispose of all waste material at the end of each day as per the direction of the Operations Coordinator. At the conclusion of each work day, the work site must be clean, and safe for persons entering the worksite. At the end of the project, the Contractor must remove all personal belongings, excess materials, excess supplies and excess food from the island upon departure. Relocated removed equipment to be store in designated area by Departmental Representative, all old equipment to be stored and secured on contractor supplied pallets for disposal by PCA at a later date.

Contract Meetings: Shortly after contract award a pre-construction meeting will be required in Halifax between a PCA Representative and the contractor and key subcontractors to discuss a schedule, plan of work, safety, etc. Attend project meetings at times and locations approved by the Departmental Representative. Parks will record notes of meetings, and distribute to all parties

Point of Contact: The overall project will be managed by the Departmental Representative (located in Halifax) and the day to day activities on the island will be managed by the Operations Coordinator (on the island) or other designated personnel. Any contractual issues, contract changes or amendments must be discussed with and agreed to in writing by the Departmental Representative. The Departmental Representative will be identified during the pre-construction meeting.

Warranty: Provide a written warranty for a period of one (1) year following the date of accepted commissioning/demonstration. The warranty shall cover all labour and materials required to repair or replace any defects and/or malfunctions in the controllers or the connections to adjacent related systems, and remote troubleshooting with the manufacture. PCA will provide flights for any warranty work.