



**TERMS OF REFERENCE  
FOR  
SUPPLY AND INSTALLATION  
OF HIGH VOLTAGE CABLE AT  
NEWMAN SOUND DAY USE AREA  
TERRA NOVA NATIONAL PARK,  
NEWFOUNDLAND AND LABRADOR  
PROJECT # 2023-01**

Date: April 20, 2023

## **1.0 INTRODUCTION**

Terra Nova National Park (TNNP), located on the east coast of the island portion of Newfoundland & Labrador, is home to Newman Sound Campground (NSCG). This campground is open seasonally from Victoria Day long weekend in May until Thanksgiving weekend in October. NSCG is the main hub of activity in TNNP during the summer months; its 270 + campsites, diversified accommodations, Activity Centre, playgrounds, multipurpose court and walking trails provide the ideal camping experience for young families and seniors alike.

A portion of NSCG is referred to as Newman Sound Day Use Area (NSDUA). This area is home to a playground, basketball court, fire pits, washroom facilities, cook shelters, the Campfire Circle Performance Stage, and the Outdoor Theatre. Electricity for NSDUA is fed from the main campground area via a buried high voltage cable to a transformer located in NSDUA that in turn supplies electricity to all facilities located within that area. Over the last number of years the main feeder cable has experienced faults and portions of the cable have been replaced. Last Fall the cable experienced another fault and due to the ongoing issues, the decision has been made to replace the cable in its entirety.

## **2.0 LOCATION**

Newman Sound Day Use Area located within Newman Sound Campground in Terra Nova National Park.

### **2.1 Special Site Conditions**

Site is located in a busy area occupied by visitors from approximately mid-May to mid-October.

## **3.0 SCOPE**

Work covered under this contract will include, but not limited to:

- 3.1.** Supply and installation of approximately 355m of high voltage (HV) buried cable from an existing transformer located next to Washroom #17 in the main campground area to an existing transformer located in the Day Use Area.
  - 3.1.1.** New teck cable to be 6/3 5kV. Shop drawing to be submitted for review.
- 3.2.** Remove (where practical) the existing 4160V HV cable.
- 3.3.** New cable must be continuous, no splices permitted.
- 3.4.** Connect new cable to existing transformers with load break elbows, 6 required (to be supplied by Contractor). Shop drawing to be submitted for review.
- 3.5.** Contractor to cut existing asphalt as required (2 locations). Trench to be backfilled flush with top of asphalt surface. Trench to be compacted to the satisfaction of Departmental Representative in 8" lifts with the top 6" being class "A".
- 3.6.** Any excess fill left over after completion of the work is to be removed from site by the Contractor.
- 3.7.** Contractor to Megger Test the new cable after installation is complete. Test to be carried

out in the presence of Departmental Representative and meet their satisfaction.

- 3.8. It is the Contractors responsibility to field measure exact length of new cable required before placing order.
- 3.9. Due to proximity of buildings, transformers, other buried cables and infrastructure, select areas of trench excavation will require excavation by hand.

## **4.0 GENERAL INSTRUCTIONS**

### **4.1 Work Description**

The contractor is required to supply all material, equipment and labour required to carry out the work as described in Section 3.0 Scope, Annex 1 (Trench Detail 1 & 2) and Annex 2 (NSCG Map).

### **4.2 Removal and Disposal**

The work involves the removal of sections of existing buried cable to facilitate the installation of the new cable. Only portions of the cable that interfere with new cable installation will be removed. Any excess fill remaining after completion of Work is to be removed from site.

All removed materials to be safely stored and removed from site by the Contractor in a timely manner at the Contractor's expense. All removed material to be disposed of at an approved landfill site. The Contractor will also be responsible for all tipping fees incurred. There is no burning of materials permitted on site.

### **4.3 Installation of Cable**

To avoid damage to the new cable and prevent future faults, the new cable must be put in place using a stand and roller type system that can unroll the cable without placing undue stress on the conductors or sheathing. Dragging or pulling the cable over the ground will not be permitted. Care must be taken when placing the cable in the trench.

## **5.0 START AND COMPLETION**

Work shall commence upon award of contract and shall be completed four (4) weeks thereafter.

## **6.0 DEFICIENCIES**

Any work by the Contractor that is found to be deficient shall be corrected immediately at the expense of the Contractor.

## **7.0 CONTRACTORS WORK FORCE**

The Contractor shall employ qualified personnel to complete each item of the work schedule.

## **8.0 COST BREAKDOWN**

When submitting the bid, the Contractor shall include a lump sum price excluding H.S.T as per the Bid and Acceptance Form included in the Invitation to Tender (ITT) document. The successful Contractor may be asked to provide a breakdown of their bid for payment purposes.

## **9.0 CONSTRUCTION SAFETY MEASURES**

The Contractor shall observe and comply with construction safety measures required under the Canada Labour Code and other prescribed regulations including the Provincial Workers Compensation Act and all Municipal statutes and authorities.

In the event of a conflict between the provisions of the above authorities, the most stringent provision will apply.

The Contractor shall provide a copy of their site-specific Health and Safety program to the Departmental Representative and review their safety procedures with the Departmental Representative prior to commencing of any work.

### **9.1 Fall Protection**

Anyone working over a height of 2.4 m except on ladders will wear a full body harness, complete with lanyard connected to a suitable anchor point. Alternative fall prevention systems such as working on platforms with side rails or other systems meeting Federal/Provincial standards are also acceptable. Contractors must abide by the latest edition of the Occupational Health and Safety Regulations and the Canada Labour Code.

### **9.2 Personal Protective Equipment (PPE)**

All PPE worn will be as required by the appropriate Occupational Health and Safety regulations. Contractors are responsible for supplying and monitoring proper use of their own personal protective equipment.

All safety measures respecting personnel and fire hazards recommended by National and Provincial codes (i.e Occupational Health and Safety acts and Regulations) and/or prescribed by the authorities having jurisdiction shall be observed at all times.

### **9.3 Trenching and Excavation**

All employees working in, or proximity to, a trench or excavation must hold a valid Trenching and Excavation that meets the requirements of the Provincial Occupational Health and Safety

Act and Regulations.

## **9.4 Power Line Hazards**

Due to known buried cable located throughout the site, all employees on site must hold a valid Power Line Hazards certificate that meets the requirements of the Provincial Occupational Health and Safety Act and Regulations.

## **10.0 ENVIRONMENTAL**

Work under this contract is to be carried out in a National Park, and environmental protection must be given a high priority by all staff involved with the Work. Perform work in accordance with Canada National Parks Act and Regulations. All work sites must be returned to a neat and tidy condition upon site abandonment.

### **10.1 Construction Equipment**

- 10.1.1** Contractor shall ensure that all equipment brought onsite is cleaned of all mud, gravel, and debris from previous worksites.
- 10.1.2** All equipment to be used for the Work of the Contract to be inspected by the Departmental Representative for leaks. Equipment not in good repair to be removed/repaired when directed by Departmental Representative.

### **10.2 Disposal of Wastes**

- 10.2.1** Do not bury rubbish and waste materials on site unless approved by Departmental Representative.
- 10.2.2** Do not dispose of waste or volatile materials, such as mineral spirits, oil, or paint thinner into waterways, storm or sanitary sewers.
- 10.2.3** Dispose of uncontaminated construction/demolition material which cannot be recycled or reused, at an approved construction and debris disposal site.
- 10.2.4** Garbage must be collected and removed daily from the work site. All material must be removed, transported, and disposed of in accordance with existing provincial – municipal and Park solid waste disposal guidelines and/or regulations.
- 10.2.5** Littering is prohibited.
- 10.2.6** Temporary storage, parking areas, and turn-around facilities for Contractor-related equipment and vehicles will be limited to those areas agreed to and designated by the Departmental Representative.

### **10.3 Vegetation Removal**

Restrict vegetation removal to areas indicated or designated by Departmental Representative.

### **10.4 Emergency Response**

- 10.4.1** Supply and maintain on site emergency response material to contain spills and minimize environmental damage, i.e., absorbent material, to the approval of Departmental Representative. Disposal of all contaminated material shall be off-

site at an approved facility.

**10.4.2** All spills of hydrocarbon-based products such as gasoline, kerosene, naphtha, lubricating oils, engine oils, greases and de-icing fluids or antifreeze no matter how large or small to be reported to Departmental Representative and the Park's Environmental Protection Officer (EPO).

**10.4.3** Refueling of equipment to be performed in locations as directed by Departmental Representative.

### **10.5 Aggregate Source**

Inform Departmental Representative of proposed source of aggregates and provide access for inspection two (2) weeks minimum before starting production. All aggregate sources to be approved by Departmental Representative prior to use.

## **11.0 FAMILIARIZATION WITH SITE**

Each tenderer shall have one of his or her principals inspect the site/sites of the proposed work or shall become informed by such means as he or she may prefer as to the actual conditions and requirements of the work, including particulars of local conditions and requirements generally, and all other factors which may affect his or her tender and the performance of the work.

No pleas of ignorance of conditions that exist or that may hereafter exist or of conditions or difficulties that may be encountered in the execution of the Work under this contract as a result of failure to make necessary examination and investigation will be accepted as an excuse for any failure or omission on the part of the supplier to fulfil in every detail all the requirements of said Contract Specifications, nor will be accepted as a basis for any claims whatsoever for extra compensation or an extension of time.

A site visit will be organized on a date and time as indicated in the invitation to tender.

## **12.0 CONTRACTORS' USE OF SITE**

The use of the site by the Contractor for work and storage is limited to the areas as outlined by the Departmental Representative. Do not unreasonably encumber the site with materials or equipment. Every effort must be made to prevent conflict between the users and the Contractor.

The Contractor shall make every effort to ensure that access to site is maintained and shall notify the Departmental Representative in advance to enable scheduling of work to be done on the site.

## **13.0 CONTRACTOR CONTROL OF SITE**

The Contractor shall coordinate with the Departmental Representative for access to Newman Sound Campground. The Contractor shall be responsible for safely delineating and separating

the area of Work from adjacent spaces. The Contractor is responsible for control of access to the area of the Work and for occupational health and safety.

#### **14.0 LAWS, STANDARDS, TAXES,**

The Contractor shall comply with all laws and standards governing all or any part of the Work, pay all applicable taxes and pay for all permits and certificates required in respect of the execution of the Work. If variances exist between the requirements of agencies governing all or any part of the Work, the most restrictive shall govern, but in no instance are the standards established by the drawings and this specification which exceed such requirements to be reduced.

#### **15.0 WARRANTY**

The Contractor shall provide Warranty on workmanship for a period of one year commencing at the completion of this project. Parks Canada will withhold payment until he receives a letter from the Contractor guaranteeing the work and agreeing to repair any deficiencies as a result of poor workmanship and/or poor materials.