

## **PT0304 Supply of Optical Ground Wire (OPGW) 315 Kv HVac**

### **Scope of Work Summary:**

Package includes the design, fabrication, shop testing, delivery, construction supervision, installation support and warranty of optical ground wire (OPGW) and accessories specified below:

AC Transmission Line OPGW: Approximately 250km long

OPGW shall have 24 SMF and shall have mechanical properties equivalent to that of a ½" stranded galvanized steel wire, Grade 220, with a RTS of 138.8kN as per CSA G12 Standard

Two Parallel 315kV AC Transmission line will be built between the new Muskrat Falls Transmission Station and the existing Churchill Falls Transmission Station, in Labrador and each line will be about 250 km in length. OPGW will be employed on one line along its entire length. Estimated average span is 400m. The second line will only have 5 km of OPGW

### **Supply of OPGW accessories shall include, not be limited to the following:**

1. Suspension clamps for the proposed OPGW for tangent and running angle structures complete with grounding attachments to the tower body
2. Deadend clamps for proposed OPGW for deadend structures complete with grounding attachments to the tower body
3. Splicing box and associated accessories for splicing the proposed OPGW
4. Aeolian vibration dampers for the proposed OPGW

Construction support includes the splicing of proposed OPGW at the splice locations. Construction supervision includes the supervision during stringing and sagging operation of the OPGW by others to validate the warranty of the OPGW.

OPGW shall be delivered on non-returnable wooden reels of the specified lengths to multiple delivery points along the lines. Exact length of reels and delivery points for the OPGW reels will be specified later.