

Solicitation 5P404-15004
Supply and Installation of Water and Electrical Services
Riding Mountain National Park of Canada

Question and Answers **August 20, 2015**

- Q1** Has the permit been purchased from Manitoba Hydro?
A1 Yes.
- Q2** There is no mention of who is responsible in terms of locating existing cable?
A2 That is correct, however Parks will work with the successful bidder to supply all relevant materials on known cable and pipe locations and will coordinate with the Contractor to locate buried cable and pipe.
- Q3** Are existing high voltage cables buried at a deeper depth?
A3 Not necessarily, in some cases they may be as shallow as six inches.
- Q4** Are the wire lengths 'as the crow flies'?
A4 No, they are 'as buried' and have been over estimated.
- Q5** Are there any boulders?
A5 Nothing major, the soil is mostly sandy clay with small rocks.
- Q6** Are water pipes to be buried in the same trench as electrical cables?
A6 Yes.
- Q7** How deep should the cables be buried?
A7 A minimum of three feet, and four feet for high voltage. Please note that cable will be buried under a number of vehicular access areas.
- Q8** Can we vary from the drawings in terms of where we trench?
A8 No.
- Q9** How should trenched roads be treated afterwards?
A9 They should be backfilled and flattened with granular material and earth. No finishing landscaping will be required from the contractor.

Q10 For the job at Wasagaming there is some confusion over the high voltage wire—our suppliers say that they do not make 3c # 6 teck in 15 KV. Perhaps there is a misprint?

A10 The drawings call for a 15KV Teck 90 cable #2 AWG 3 COND. with a #6 bonding conductor.

Q11 I also have a comment in regards to the RV Pedestals. Eaton's CHU4NP were specified (30A), however the specification asks for 1-30A and 1-15A which would actually be part number CHU4N7NP. Can you please confirm which is required.

A11 Yes, the number CHU4N7NP is correct. This product, or an approved equivalent, will suffice.

Q12 There is also some clarification required on the oTentik panels the unit price table specifies 125 Amp non-combination loadcenters, 2- 15 Amp breakers but no plugs. On Appendix C electrical drawings it shows a 225 Amp loadcenter, with breakers and plugs, please advise, thanks.

A12 Otentik Weatherproof Terminations must adhere to specifications identified in sections 3.4 and 3.5 of Appendix A (pg. 18 of 18), and as noted in the OTentik/Yurt Weatherproof Termination detail in Appendix C Drawing No. 2.4.

The 'Class of labour, Plant or Material' list found in *Appendix 1 Unit Price Table* is only a summary, and does not detail specifics.

Q13 Could the following items be clarified,
· Bid and Acceptance Form – Appendix 1 Unit Price Form pages 13 and 14 of 20. “Unit of Measurement” for the wire is in meters this quantity is the same as “Appendix B Electrical Wire Lengths” “Total Length in Feet” ie: Appendix 1 Item 8 15Kv Teck 2965 Meters
· Appendix B 15 Kv Teck 2965 Feet 905 Meters

Does Appendix B need to be completed and included with the tender documents ? Some of the information may not be available prior to a PO being issued to a supplier.

A13 *The Bid and Acceptance Form – Appendix 1 Combined Price Form* was written incorrectly. Item No. 8, 15KV 3/C # AWG TECK 90 XLPE CW #6 AWG should be listed as a length of **905 metres**, and not 2965 metres as it currently is.

There is nothing on Appendix B that needs to be filled out, as it is for information purposes only.

Q14 Some of the requirements written out in Appendix A are not consistent (or not shown) on the single line. A piece that we need some clarification on is regarding the single phase protection that is outlined in Appendix A.

We have a system that can comply with this requirement however it add a reasonable amount to the total cost. Is this a feature that is required on all the incoming and feeder cell's? sometimes people opt to just have the features of the main incoming cell.

From page 11 of Appendix A.

A14 The Single Line Drawing (Drawing No. 1), as referred to in the question, is found in Appendix C. This drawing is meant only as an overview of the entire electrical project. Whereas, the much more detailed specifications listed in Appendix A must be met and followed by prospective bidders.

If a prospective bidder proposes to use any electrical components or systems, they must still meet the specifications as listed in Appendix A. Electrical system or components proposed to be equivalents will only be permitted as long as all the specifications are still met, or proved to be met. If something is not implicitly stated within the specifications, then it is not a requirement.