



30001400

Procurement Hub – Ottawa Office,
Station 9N089A, 9th Floor,
200 Kent Street,
Ottawa, Ontario K1A 0E6

December 9, 2021

ADDENDUM NO. 4

Subject: **ITT Invitation to Tender No. 30001400**

Title: Design, fabrication, and installation of one 24.4 metre self - support radar tower at Chebucto Head, NS

Location: Chebucto Head, NS

Closing Date: **December 16, 2021 @ 2:00 PM (EST)**

Dear Sir/Madam:

Further to the above-mentioned Invitation to Tender, this **Addendum #4** is to advise potential bidders of the following questions and answers received to date:

In addition, please see attached the following documents:

“2021_12_08-Appendix_I.pdf” . Attached is a document that contains guidance on lightning rod installation and grounding. This forms part of the Technical Specifications as Appendix I.

Q1: Does the entire tower need to be painted the all one colour - RAL3020 – Traffic Red?

R1: No. The tower does not require a red-coloured coating. The tower shall be galvanized as per the Technical Specifications, Section 055129 Metal Stairs and Ladders and Section 133613 Steel Towers.

Q2: Section 01 11 00, item 1.2.3.6 mentions the existing radar antenna unit – Terma SCANTER High Gain X-band antenna. Is this antenna to be relocated from the existing tower on site by the contractor? If so, can it be completed at the time of the tower build? Who is responsible for connecting and testing the antenna?

R2: The contractor is not responsible for installing, connecting or testing the radar antenna unit.

Q3: The Technical Specifications, Section 01 11 00, item 1.2.3.10 says the contractor is responsible to supply and install Tx hangers. Can you provide quantity and size of transmission lines for the initial build?

R3: The contractor is responsible for the design and supply of a TX ladder and mounting brackets for securing five (5) EW 90 / EW 85 waveguides and five (5) 1-1/2 inch diameter DC power cables. The contractor is not responsible for supplying the waveguides and cables.



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Q4: The Technical Specifications, Section 26 05 27, item 2.1.12.2 says the ground conductor for the lightning rod to be connected using a thermit connector. Are compression connectors acceptable?

R4: No.

Q5: There is no mention of extending the existing fence to encompass the new tower. Is this required? If so, please provide details.

R5: Yes, the existing fence shall be modified and extended so that it encloses the new radar tower. This will require approximately 24 metres of new fence and one new 3 metre wide double gate. The fence shall be 2.4 metres high with posts spaced not more than 3 metres apart.

Q6: For electrical cable, we require a single line diagram including cable sizing.

R6: The contractor is not responsible for supplying waveguides, power or data cables for the radar antenna unit.

Q7: Is the new Equipment Building part of the scope of work for this contract?

R7: No.

Q8: Until the new building is constructed, how will the waveguide be installed?

R8: The waveguide installation is not part of this contract.

Q9: Does the radar tower grounding tie into the existing building grounding, New Building grounding, or will new grounding need to be laid?

R9: The radar tower grounding does not tie into the existing building grounding or the New Building grounding.

To Delete and Replace the following sections from the Specifications document:

I. In the specifications, section 01 11 00, delete clause 1.2.3.6 and replace with new clause 1.2.3.6 to read.

- i. 1.2.3.6 Tower shall be designed to support Owner's Radar Antenna unit: Terma 21 Feet High Gain Antenna System. Mounting platform design shall allow access for future maintenance. See Appendix E: Radar Antenna Unit Loading Requirements

II. In the specifications, section 01 11 00, delete clause 1.2.3.11 and replace with new clause 1.2.3.11 to read.

- i. 1.2.3.11 Supply and installation of the grounding systems including connection to the tower and related structures, and the supply of the above and below grade grounding systems (lightning rods, continuous ground to lightning rod buried ground radials and rings, all bus bars etc.).



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- III. In the specifications, section 01 11 00:
 - i. Delete clause 1.2.3.12
- IV. In the specifications, section 01 11 00, delete clause 1.7.2 and replace with new clause 1.7.2 to read.
 - i. 1.7.2 Design and fabrication to be completed within 10 weeks of award. Installation to be completed within 20 weeks of award.
- V. In the specifications, section 13 36 13, delete clause 3.1.5 and replace with new clause 3.1.5 to read.
 - i. 3.1.5 Design Wind Load: use Site Specific Wind Data contained in Appendix G.
- VI. In the specifications, section 13 36 13, delete clause 3.1.6 and replace with new clause 3.1.6 to read.
 - i. 3.1.6 Radar Loading Requirements: use Radar Loading requirements contained in Appendix E.
- VII. In the specifications, section 26 05 27:
 - i. Delete clause 1.1.2
- VIII. In the specifications, section 26 05 27, delete clause 1.1.3 and replace with new clause 1.1.3 to read.
 - i. 1.1.3 Contractor shall be responsible for installing all new external grounding for tower and wave guide bridging.

Yours truly,

Ginette Aliaga

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