



Procurement Hub – Ottawa Office,
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Ottawa, Ontario K1A 0E6

February 24, 2022

ADDENDUM N° 1

Subject : **Invitation to Tender n° 30001782**

Title : North Atlantic Fisheries Centre Aquarium Monitoring System

Location : 80 East White Hills Road, St. John's, NL

Closing Date : **March 1, 2022 at 14 h EST (Eastern Standard Time)**

Dear Sir/Madam:

Further to the above-mentioned Invitation to Tender, this **Addendum #1** is issued to answer the following questions submitted:

Questions and Answers

- Q1. *Will Endress + Hauser (E+H) be considered as an approved equal to the Electro Chemical Devices (ECD) for the free chlorine analyzer, dissolved oxygen (DO) transmitters and sensors?*
- A1. Endress + Hauser are an approved alternate provided all requirements of the drawings/specifications and listed equipment are met. Equipment shop drawings will be reviewed for compliance with drawings and specifications after contract award.
- Q2. *For the DO sensors (ODO), the drawing detail states "(3 SUCH)". With the specified DO transmitters (DO1) from ECD having the capability to handle only four (4) DO sensors [E+H's can handle up to eight (8) sensor inputs], does "3 SUCH" mean that you only plan to include three (3) transmitters and twelve (12) DO sensors with this tender and not 13 and 52 respectively? Maybe you intend to install DO sensors in the remaining 40 tanks at a later date? Or was this a typo and should have read "(13 SUCH)".?*
- A2. Delete "(3 Such)" reference from Dissolved Oxygen Sensors Detail. Provide and install sensors for all tanks as indicated on drawing ME1.
- Q3. *The spec is requesting PLC gear that really doesn't work with what they want. The 2080 series is what they want, but the specifications looks much more like a Controllogix. Section 40 94 43:*
- *.4 provide for 10K ohm input type. This is not in Core drawings.*
 - *1.7 calls for spare IO for AO And DI but neither are present in Core drawings.*



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- 1.7 calls for AI plus 20 spares, but Core drawings call for 20 with expansion for 60.
- 2.1 calls for AB 2080 Series.
- 2.2.3.3 call for SFC, but this is not supported through the programming software.
- 2.4.1 2080 is not a chassis mount PLC and it can support a max of 304 points not 1024.
- .7.4 - The 2080 does not have an 8 channel RTD or thermocouple card. Along with no 16-channel cards. These cards are only available in PLCs like Controllogix
- The Micro also does not support Control Protocols like DNP3

A3. PLC to be equivalent to Allen Bradley Compact I/O with EtherNet/IP and input and outputs as required.

Q4. *There is a valve detail shown on drawing ME2 of 2 titled "Tank Control Valve Piping". Is this a separate valve from the emergency shutoff valve or are they one and the same?*

A4. This is the same valve.

Q5. *What was the intended purpose of the junction boxes shown on drawing ME1 of 2? There appears to be one junction box per tank. Are they intended for spicing of the power supply cables to the DO analyzer Indicators?*

A5. Installation to be as per manufacturers requirements. It is acceptable to connect DO analyzers connect directly to controller if this meets manufacturer requirements.

Q6. *Based on drawing ME1 of 2 , the number of tanks to have DO analyzers fitted appears to be 52. The (Dissolves Oxygen Sensors (3 Such)) detail on drawing ME2 of 2, implies that we have only 3 indicators for a total of 12 tanks. Please clarify.*

A.6 See answer to question 2 above.

All other terms and conditions remain the same.

Regards,

Mazen Obeid

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