

## 785-2020 ADDENDUM 5

### PROFESSIONAL ENGINEERING CONSULTING SERVICES FOR DESIGN AND CONTRACT ADMINISTRATION OF THE NEWPCC PRIMARY CLARIFICATION UPGRADES

ISSUED: March 18, 2021  
BY: Jaimee Sekanjako  
TELEPHONE NO. 204-986-3266

### **URGENT**

**PLEASE FORWARD THIS DOCUMENT TO  
WHOEVER IS IN POSSESSION OF THE  
BID/PROPOSAL**

**THIS ADDENDUM SHALL BE INCORPORATED  
INTO THE BID/PROPOSAL AND SHALL FORM  
A PART OF THE CONTRACT DOCUMENTS**

Template Version: Add 2021-03-05

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**Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid/Proposal, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 10 of Form A: Bid/Proposal may render your Bid/Proposal non-responsive.**

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### **PART D – SUPPLEMENTAL CONDITIONS**

Revise: D8.5 to read:

Submit monthly Project status reports, including the following:

- (a) work carried out in the previous month;
- (b) work in progress;
- (c) work anticipated for the following **month**, including projected person-hours;
- (d) percentage completion of each task and the overall Project;
- (e) information requests for the following quarter;
- (f) issues to date;
- (g) earned value analysis;
- (h) schedule and quality performance. In particular, report on items that are behind schedule and how they will be addressed;
- (i) any modifications to the Project Management Plan;
- (j) budget and actual cost for completed tasks and projected cost for planned tasks; and
- (k) description, action, and mitigation of extreme and high risk(s).

Add: D10.4.1(b).

Consultants should note that failure mode and effects criticality analysis should only be conducted on assets with assets criticality of 7 or greater as indicated in Appendix 21 – Asset Registry Guideline.

- (i) Accordingly, the failure mode and effects criticality analysis (FMECA) should be carried out on the “Asset Class” level (e.g., submersible pumps, MCC, Actuator, transformer etc.,) as defined in Appendix 21 – Asset Registry Guideline.
- (ii) Conduct FMECA using the typical components of an Asset Class common to each manufacturer that the Consultant will be including in the tender specification and nuance components from each manufacturer’s equipment.
- (iii) As FMECA is a risk assessment tool that can be used to improve system reliability during design, the Consultant should complete the FMECA to a sufficient level of detail to provide a design to a level of reliability based on industry’s best practice. Where necessary, using risk-

based criteria and in consultation with the City, the Consultant should direct the contractor to provide a further level of FMECA where this information is not available prior to 90% design.

Add: D10.4.1(c). The Consultant should assume that FMECA will be carried out on a maximum of five (5) Assets based on the definition of Assets included in Appendix 21 – Asset Registry Guideline.

## **QUESTIONS AND ANSWERS**

- Q1: The City is requesting an FMECA workshop after the submission of the 90% detailed design, per RFP Section D10.4.2. Our understanding is that an FMECA requires vendor-specific failure probabilities of the components that comprise the equipment, which will not be known until after the contractor has selected the equipment. Please clarify the City's requirements for the FMECA.
- A1: As referenced in C5.1 of Appendix 22 O&M Information, FMECA is to be carried out only on Assets with an Asset Criticality rating of 7 or greater, as determined in accordance with Appendix 21 Asset Registry Guideline. Clarification has been provided in D10.4.2(b) and D10.4.2(c) above as to the Asset level to be used for FMECA and the number of Assets to be considered. It is expected that the consultant will have sufficient information to carry out the FMECA on an Asset Class level based on regular information obtain from vendors for their design during the normal course of design.
- Q2: In project management Section 8.5, it requests that the proponent submit monthly project status reports. However, immediately below this sentence, item (a) requests a description of the "work carried out the previous quarter". Items (c) and (e) below also request the "work anticipated for the following quarter" and "information requests for the following quarter" respectively.
- A2: Project status reports will be required monthly. Clarifications to D8.5 have been made above.