

Questions and Answers

Port Granby Waste Water Treatment Plant

Solicitation No.: EQ139-131604

1. Please advise to the flow rates for the following chemical feed systems:

Section 43 36 13 – Methanol Metering Pumps

Answer: The WWTP will utilize a set of metering pumps for the dosing of methanol to support the biological denitrification process. It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the methanol metering pumps for the respective application. The Contractor must provide justification (i.e. process calculation) for the selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Methanol Metering Pumps, but the Contractor is required to provide the justification for equipment selection.

Section 43 85 15 – Antiscalant Chemical Feed system

Answer: It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the antiscalant feed pumps for the respective application. The Contractor must provide justification (i.e. process calculation) for the selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Antiscalant chemical feed systems, but the Contractor is required to provide their own justification for equipment selection.

Section 43 85 18 – Sodium Hydroxide Chemical Feed System

Answer: It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the appropriate dosing system including any ancillary equipment. The Contractor must provide justification (i.e. process calculation) for the selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Sodium Hydroxide chemical feed system, but the Contractor is required to provide their own justification for equipment selection.

Section 43 85 19 – Hydrochloric Acid Chemical Feed System

Answer: It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the appropriate dosing system including any ancillary equipment. The Contractor must provide justification (i.e. process calculation) for equipment selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Hydrochloric Acid chemical feed system, but the Contractor is required to provide their own justification for the equipment selection.

Section 43 85 20 – Ortho Phosphoric Chemical Feed System

Answer: It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the appropriate dosing system including any ancillary equipment. The Contractor must provide justification (i.e. process calculation) for selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Ortho Phosphoric chemical feed systems, but the Contractor is required to provide their own justification for the equipment selection.

Section 43 85 21 – Urea Feed System

Answer: It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the appropriate dosing system including any ancillary equipment. The Contractor must provide justification (i.e. process calculation) for the selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Urea feed systems, but the Contractor is required to provide their own justification for the equipment selection.

Section 43 85 22 – Biocide Feed System

Answer: It is the Contractor's responsibility to assess and evaluate the provided bid information (e.g. Process and Instrumentation Drawings, Design Rationale and Process Control Description, Pilot Trial Report) and size and select the appropriate dosing system including any ancillary equipment. The Contractor must provide justification (i.e. process calculation) for the selection.

The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Biocide feed systems, but the Contractor is required to provide their own justification for the equipment selection.

2. For Section 43 85 20 – Ortho Phosphoric Chemical Feed System, how many feed systems are required :

Answer: Two Ortho Phosphoric chemical feed systems are required. The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Ortho Phosphoric chemical feed systems. The contractor is required to select the system and provide justification (i.e. calculations) for the selection.

3. Advise as to the flow rates for the above mentioned sections and the quantity of feed systems required for Section 43 85 20.

Answer: Two Ortho Phosphoric chemical feed systems are required. The Process instrumentation drawings and the Design Rationale and Process description provide information relevant to the Ortho Phosphoric chemical feed systems. The contractor is required to select the system and provide justification (i.e. calculations) for the selection.

**4. Please review the attached clause 1.1.3.
Based on this clause, we require a 3 – 6 month extension and costs to hire a design engineer.**

Answer: That is part of the contract deliverables. Therefore, the estimated schedule and budget to complete the piping layout are to be included as part of the Contractor's submission.