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SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada -
Western Region
Room 100,
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6

Title - Sujet Water Pumping Station & Reservoir	
Solicitation No. - N° de l'invitation EW525-161527/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client CSC-EW525-161527	Date 2016-02-08
GETS Reference No. - N° de référence de SEAG PW-\$PWZ-014-9691	
File No. - N° de dossier PWZ-5-38199 (014)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-02-16	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Fagan, Mike	Buyer Id - Id de l'acheteur pwz014
Telephone No. - N° de téléphone (204) 296-5375 ()	FAX No. - N° de FAX (204) 983-7796
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This Amendment 004 is raised to amend Request for Proposal EW525-161527/A as follows:

The following changes in the RFP documents are effective immediately. This amendment will form part of the Agreement documents.

1.0 QUESTIONS AND ANSWERS

QUESTION 01

Your RFP indicates a mechanical engineer as prime consultant. We are a municipal consultant (civil by formal training) and we do our own mechanical design. We typically act as prime consultant on projects such as this. Is the statement about a mechanical engineer as prime consultant a requirement that would preclude us from consideration as prime consultant?

RESPONSE 01

The Departmental Technical Authority determined due to the nature of the requirement it is mandatory that the Prime Consultant be a Mechanical Engineering Firm. That would preclude your firm bidding as Prime Consultant.

QUESTION 02

Since this project is continuing on from previous work, we would like to see the previous work (specifications/drawings/reports) so that we may provide our proposal accordingly. Are you able to provide them?

RESPONSE 02

No this project is not a continuing on from previous work. The "...existing construction documents prepared in 2010 by Genivar..." references the completed tender package for this project but was never tendered or constructed. It was based on the existing reservoir staying and an extension to increase capacity, the site was staying where the old pump house now is located. These are for reference only.

QUESTION 03

Are there any other record drawings available for the system?

RESPONSE 03

No, none available.

QUESTION 04

During the site visit no security system was observed at the existing facility. Other than the item list under Item 1.3.1.4 the security to be designed is to be stand alone with no connection to existing facilities. Please confirm.

RESPONSE 04

Confirmed...there is not a requirement for security alarms ringing at local main control, however there should be a high/low water alarm that rings in the central heating plant.

QUESTION 05

Item 1.2.3.8.7 identifies the existing system having one 100 hp diesel fueled engine driven pump for fire flows however item 1.3.1.13 states that we are to assess the existing emergency generator serving the existing fire pump, implying that the existing fire pump is driven with an electric motor. Also, item 1.3.1.15 notes that the fire protection system is to be updated including the redundant fire pumps. During the site visit one diesel engine driven fire pump was observed. Please confirm that there are no other fire pump at this site.

RESPONSE 05

This is considered a design question. The intent to assess existing emergency generator is in the event that an electric fire pump is selected, if so, the existing electrical equipment should be assessed including the onsite generator, if inadequate, the design must be adapted. This could mean replacing the fire pump with another diesel fire pump or having an electric fire pump with a dedicated emergency generator. Redundant fire pump implies a dual fire pump installation. This could be two electric fire pump with emergency power supplied, one electric and one diesel or two diesel. One lead and one stand-by. There is only one fire pump on site. It is powered by a diesel engine. Since it was installed there have been new guidelines indicating that the fire pumps should be electric with a redundant fire pump. This is one of the reasons we are updating the reservoir.

QUESTION 06

Item 1.2.4.15 states that the system must be connected to the existing backup generator system. Please confirm this is for the domestic distribution system only.

RESPONSE 06

The current system is connected to the backup power for the institution. The new equipment/system must also be designed to be connected to the institutions back up power supply. "Must" is not applicable to fire pumps in the event the chosen design is diesel or the existing installation is deemed inadequate. This is a fire protection comment and does not provide guidance regarding domestic distribution.

QUESTION 07

Item 1.3.1.9 states that every hydrant shall be capable of flowing not less than 30 L/s of water at a residual pressure of not less than 450 kPa. Based on previous knowledge at the institution we understand that some of the fire water supply loops are 150 mm in diameter which is unlikely to be able to satisfy this item. Based on discussion on site during the site visit it is assumed the scope does not include design of upgrades to the fire water supply network beyond the tie in points. Please confirm.

RESPONSE 07

This is considered a design question. The 30L/s with a residual pressure of not less than 450 kPa is a CSC Technical Criteria requirement. The pump should not be designed according to the network but vice versa. CSC's intent is to be code compliant when practicable. A private water main assessment may be required and findings may indicate an upgrade is required. Note that 30L/s with a residual pressure of 450kPa is the minimum requirement and it is possible the water supply requirement exceeds this based on FUS. Special attention should be attributed to at least meet the most demanding building sprinkler design. Beyond the two previously mentioned values (building sprinkler and hydrants), a rational should be formulated if any value is regarded as unreasonable since this could greatly influence the tank and pump size when applying FUS vs technical criteria (which includes a limit of 130L/s, this limit need not be observed if inside/outside hose demand plus sprinkler demand exceeds it for any given building). This project does not include the re-design of the fire distribution system...just the fire equipment that will be located in the reservoir building.

QUESTION 08

Item 1.3.1.11 states that the water supply network should be analysed to determine if the required water supply can be accommodated with respect to pressure distribution and excessive velocity which could damage the domestic water system. Please confirm that the institute will provide current water demands and growth projections for design purposes.

RESPONSE 08

Yes, confirmed.

QUESTION 09

Item 1.3.1.15 indicates that the entire fire protection system is to be updated. As stated this could include sprinkler system, distribution mains, monitoring system, etc. Please confirm that the intent is to limit the work to the new reservoir and pumping station up to the connection to existing water main.

RESPONSE 09

Yes, confirmed.

QUESTION 10

Item 1.3.1.16 outlines the requirements for providing provisions for a UV water treatment. Based on the data provided it is assumed that the intent is to provide space within the pump station building for future installation only. Please confirm.

RESPONSE 10

This is a design question to be determined through design. Provide a fee to design the UV water treatment system wherever it is designed through that process. If it makes the most sense to put in the pumphouse then that is where it will be designed to go.

QUESTION 11

Item 1.3.1.17 outlines how the new pumping station will be controlled and alarmed. As access to the Boiler House was not permitted during the site visit it is assumed that there is no existing suitable equipment to connect the pump station alarms and that new equipment is to be design for installation in the Boiler House. Please confirm.

RESPONSE 11

Yes, assumption is correct.

QUESTION 12

Does "domestic system" refer to the water supply from the pumping station to the penitentiary or is it in reference to the PA distribution system feeding the reservoir?

RESPONSE 12

Domestic system is for the domestic water supply. Doesn't matter if it is from station to penitentiary or the PA distribution system.

QUESTION 13

Re: 1.2.4.8 – Please clarify the intent of the client for "engineered to operate in a piped drinking water...." and "Internal distribution limitations must be considered and addressed". Are there specific examples of issues they are trying to avoid?

RESPONSE 13

Not at this time. To be reviewed through the design process.

QUESTION 14

Re: 1.2.4.12 – “direct feed to the institution and the by-pass system in place” – is this in reference to a bypass line to the facility around the reservoir and pump station?

RESPONSE 14

Yes. Currently there are two bypasses - the site can bypass the reservoir and feed directly to the institution, the ability to do this must be retained in the system. The second bypass is a valve located outside the pumphouse that can be used to feed the distribution loop from the other end. Both these must remain in the new system.

QUESTION 15

Re: 1.2.4.14 – “meet the requirement of the tank filling...” Which tank is this? It is unclear to me what or where the tank is that we are to use VFDs to fill. Is this in reference to the reservoir being filled by the supply from the municipal network or is there another tank somewhere on the penitentiary site that is to be filled or remain full? If so what are the requirements of the tank?

RESPONSE 15

It is the new tank you will be designing, it is the reservoir you are designing, whether it is described as tank or reservoir. Present backup generator system is in the boiler house/central heating plant.

QUESTION 16

Re: 1.2.4.15 – “existing backup generator system”. Facility-wide back up or pump station? Electrical genset or standby engine for the pump? Is there a site-wide electrical back up system we need to coordinate and tie into or is this a local genset within the reservoir building or is this in reference to a backup engine to shaft drive the fire pumps in a power loss. If the backup generator system is existing, where does it exist?

RESPONSE 16

Depends on design but: The current system is connected to the backup power for the institution. The new equipment/system must also be designed to be connected to the institutions back up power supply. “Must” is not applicable to fire pumps in the event the chosen design is diesel or the existing installation is deemed inadequate. This is a fire protection comment and does not provide guidance regarding domestic distribution.

QUESTION 17

Re: 1.3.1.5 – “distribution pressure sustaining capability”. What are they looking for on this? Maintaining a minimum pressure at all times? If so, what pressure?

RESPONSE 17

Fire Pump requires 135 psi; domestic water is 60 to 80 psi.

QUESTION 18

Re: 1.3.1.11 – “water supply network” – is this supply to or from the reservoir? “pressure distribution and excessive velocity...” is the concern water hammer under normal operation, fire flow, or other, or are they concerned with excessive head loss as a result of high velocity during the fire scenario?

RESPONSE 18

Referring to supply from the reservoir. Concern is over water hammer and excessive pressure under normal operations but also in response to fire pump activation.

QUESTION 19

Is the FUS analysis an option (1.3.1.7) or required (1.3.1.10)?

RESPONSE 19

Just as it is requested, whichever is greater.

QUESTION 20

Re: 1.3.1.9 – “every hydrant” as in each hydrant? All hydrants on site to simultaneously put out 30 L/s @ 450 kPa? Is computer modelling required? Is field verification require? Are distribution system drawings available?

RESPONSE 20

Clarification : The water supply system shall be designed so that the available flow rate at any one hydrant is not less than 30 L/s of water at a residual pressure of not less than 450 kPa (gauge). As outlined in the TOR.

QUESTION 21

Are sewer drawings available?

RESPONSE 21

Available, but not for tender process.

QUESTION 22

Re: 1.3.1.13 – “existing emergency generator”. Is this in reference to the overall back up power system or only the engine driven fire pump?

RESPONSE 22

It is reference to “overall backup power.”

QUESTION 23

Is system pressure to be 70-80 psi (1.2.4.13) or 60 psi (1.3.1.16.4)?

RESPONSE 23

Please consult the TOR. One references to regulate flows to a standard of 70-80 psi into the institute; the other references the UV system.

QUESTION 24

Is redundant storage required, or is split storage required?

RESPONSE 24

Split, ideally, the reservoir shall be subdivided into 2 compartments of equal capacity with fire pumps arranged to take suction from both compartments.

QUESTION 25

Re: 1.3.1.14 – “connect water supply to two separate municipal water works connections”. Does this mean a second supply line to the reservoir from the PA distribution system or separate pump discharges to the local distribution network serving the facility?

RESPONSE 25

This is a detail that will be resolved through the design process please provide the services outlined. As I understand the question, please provide resource, etc to meet this requirement. If two sources are available then connect to them.

QUESTION 26

Where is the UV required? Upstream of reservoir on fill line or on pump discharge side? Why do they require UV?

RESPONSE 26

This is a detail that will be resolved through the design process. Please provide the services outlined.

QUESTION 27

Are water, sewer, and utilities drawings for the facility available so we can see where to connect and if items need to be relocated?

RESPONSE 27

Yes, they will be made available to the successful proponent.

QUESTION 28

Re: 1.4.1.1.5 - Capacity for future growth – What is planned/intended growth? Are new fire critical structures planned?

RESPONSE 28

Can't provide any of this information at this time, please provide fees for services as outlined in this TOR requirement.

QUESTION 29

My question relates references of “...existing construction documents prepared in 2010 by Genivar...” located throughout the RFP document. Can you provide clarification on this reference as it is unclear whether this is referencing a design of another, similar facility that the consultant is to adapt to the Prince Albert site location, or possibly a design of this specific facility that was completed in 2010 and not constructed?

RESPONSE 29

The “...existing construction documents prepared in 2010 by Genivar...” references the completed tender package for this project but was never tendered or constructed. It was based on the existing reservoir staying and an extension to increase capacity, the site was staying where the old pump house now is located. These are for reference only.

QUESTION 30

Are these “construction documents” available to proponents for review during the RFP period?

RESPONSE 30

No, not during the solicitation period. They will be made available to the successful proponent.

QUESTION 31

Is it acceptable to submit an electronic copy of the proposal documents by the closing date/time, then follow up with the required printed copies, sent via courier within a 1 – 2 business days?

RESPONSE 31

No, we would require the complete bid package at bid close.

QUESTION 32

Schedule: Milestone Completion dates and associated number of weeks don't match up, I believe it should be Milestone "Start" dates. This would make the dates and associated week consistent. Please confirm this assumption.

RESPONSE 32

As the dates are not relevant anymore use the number of weeks.

QUESTION 33

Schedule: 99% Construction Drawings says it is given 7 weeks, however, associated dates only indicate 4 weeks. Please clarify which is correct.

RESPONSE 33

As the dates are not relevant anymore use the number of weeks.

QUESTION 34

Existing Facility Decommissioning: At the site visit, it was indicated that no part of the existing facility would be included in the project. I understood this to also include decommissioning. Please confirm if decommissioning of Existing Facility is to be included.

RESPONSE 34

No part (decommissioning or deconstruction) of the existing pumping station is included in this project. It is understood (at this time) that the water supply will have to be disconnected from existing pumping station and rerouted to the new station.

END OF AMENDMENT 004