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British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

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 -
Pacific Region
800 Burrard Street, 12th floor
800, rue Burrard, 12e étage
Vancouver
British C
V6Z 0B9

Title - Sujet Concrete Fiberglass Rearing Ponds	
Solicitation No. - N° de l'invitation F1700-130411/A	Amendment No. - N° modif. 004
Client Reference No. - N° de référence du client	Date 2013-12-13
GETS Reference No. - N° de référence de SEAG PW-\$PWY-005-7139	
File No. - N° de dossier PWY-3-36199 (005)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-12-17	Time Zone Fuseau horaire Pacific Standard Time PST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Pillay, Sal (PWY)	Buyer Id - Id de l'acheteur pwy005
Telephone No. - N° de téléphone (604) 775-9386 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DFO - Robertson Creek Hatchery - Port Alberni, BC	

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

ADDENDUM NO. 4

13th December 2013

**Robertson Creek Hatchery
Port Alberni, BC**

**The following changes/clarifications in the tender documents are effective immediately.
This Addendum will form part of the Tender/Contract Documents.**

Delete in its entirety Clause 1.8, Section 01 11 00 of the Specifications.

Replace Section C3012 , Clause 1.7 WARRANTY in the specifications with the **revised**

.1 For epoxy wall coating materials the 12 month warranty period prescribed in subsection GC 32.1 of General Conditions "C" is required.

.1 This warranty period must include warranty against delamination of FRP coating system from substrate, and other failure of system to provide complete, integral, seamless wall covering meeting specified performance requirements, for specified time period.

Response to Questions Received from Contractors

Q1) Please confirm what power sources are available to the contractor, including voltage, amperage, and panel/outlet locations.

A1) Power is available on a, how is, where is, basis.

Q2) Please indicate the extent to which fairing compound will be required to be applied to concrete substrates (N.B. by definition and in the context of the surface preparation of concrete, a fairing compound in practice would be used to bring highly localized voids (i.e. "bugholes") to the same level or "fair" with the surrounding adjacent surface).

A2) Follow the guidelines.

Q3) Please confirm the intent of Section 01 11 00 Scope of Work, Item 1.8.1 and 1.8.2. More specifically, considering:

a. the statement in 1.8.2: "Additional Work and repair over the estimate in the bid documents will be at the contractors expense",

A3 (a) Refer to Addendum No. 4

b. that the quantities for the Work have not been provided,

A3 (b) Refer to Addendum No. 4

c. that the only indication approaching specification of the quantities comprising the Work are the colourings in the drawings provided, and

A3 (c) Look at the drawings and make an estimate of the amount of work involved, and take measurements on the empty channels if necessary.

d. the statement in 1.8.1 which instructs the Tenderer to "Locate and provide estimate to Departmental Representative as part of the bid documents",

A3 (d) Refer to Addendum No. 4

e. please confirm that Tenders are to quantify the Work and if so, the format of this quantification in the bid documents.

A3 (e) Contractors are required to estimate the work required, in the appropriate format.

Q4) Please indicate when access to the site will be restricted or the work schedule adjusted in terms of dates, starting times and durations, in accordance with Section 01 11 00 Scope of Work, Item 1.9.2.

A4) The site will be available from the date of the contract award until 31 March 2014.

Q5) Please confirm that water will be completely shut off in all tanks and that no dewatering will be required by the contractor.

A5) Refer to the contract specifications.

Q6) Please confirm the extended hours available to the contractor, including but not limited to evenings, nights and weekends (N.B. it is anticipated that 24 heating and dehumidification will be required).

A6) The hours that the site will be available is at the discretion of the hatchery manager.

Q7) Please confirm that the hatchery will provide a suitable facility for the project kick-off and progress meetings.

A7) On - Site

Q8) Please confirm:

A. the location,

A8 (a) Robertson Creek Hatchery

b. areal extent, and

c. if necessary, limitations on proximity to tanks and other hatchery infrastructure,

A8 (b) (c) No hatchery infrastructure will be available.

d. of the laydown area(s) available to the contractor during the course of the Work.

A8 (d) Check with Hatchery Manager after contract award

Q9) Please provide the anticipated time between tender close and the Letter of Intent/Notice to Proceed.

A9) The bids are valid up to 30 days

Q10) Several sections of the tender documents refer to permits. Please state what permits will be required by DFO and others.

A10) These are standard requirements for all DFO contracts.

Q11) The tender documents require a Site Specific Safety Plan to be submitted 7 days after the Notice to Proceed. Alternately, if this document were to be submitted a minimum of 5 days before mobilization occurs, Hazard Analyses could be completed at the same time as the Project Kick-Off Meeting, thus aiding H&S representatives in attendance at the same meeting. Please confirm acceptance of this alternate submission deadline for the Site Specific Safety Plan.

A11) This seems to be ok.

Q12) Please identify the "PVC Pipe, cutting and welding" required, as mentioned in Section 01 35 29.06 "Health and Safety Requirements", Item 1.13.1.

A12) Pipe cutting and welding shouldn't be required

Q13) Please list the project milestones where inspections by 3rd party consultant(s) will be required, including notification times required to have such inspections completed.

A13) Refer to the specifications.

Q14) Please indicate, if any, the testing to be undertaken by the Owner or any of its agents or representatives, including the times allotted for such tests.

A14) Refer to the specifications.

Q15) Please indicate the type, size, location and potability of water connections available to the Contractor on site.

A15) Refer to the specifications

16) This project will require extensive dehumidification. Please indicate the location to which dehumidification condensate can be drained.

A16) Refer to the specifications

Q17) Heating and dehumidification will require steady monitoring: please confirm that access to the site will be provided 24 hours a day, seven days a week, for equipment monitoring, adjustments, repairs, etc.

A17) The hatchery manager is the only person that can address this after contract award.

Q18) Please indicate if and where a small heated storage area can be made available for contractors to store FRP/Epoxy products.

A18) The hatchery manager is the only person that can address this after contract award.

Q19) Please indicate the extent (if any) to which professional engineering certification and field review will be required for the hoarding system.

A19) The contractor will be responsible for following B.C. guidelines.

Q20) Please provide details for the transition from Epoxy to FRP, return/termination of both the epoxy and FRP and how FRP shall be terminated at embedded steel.

A20) Refer to the Specifications.

Q21) Please confirm that the quality of the previously completed abrasive blasting was sufficient and that a "brush" blast is all that is required.

A12) There was time for inspection at the site pretender meeting. Refer to specification

Q22) Please confirm whether the intent of the Owner, its agents or representatives is to have the floors of the tanks blasted using conventional sand blasting methods or shot-blast methods.

A22) This will be a requirement if deemed necessary the ponds were available for inspection at the pretender meeting

Q23) Please confirm that it is the intent of the Owner, its agents or representatives to have all surfaces thoroughly vacuumed prior to membrane application but after washing.

A23) The surfaces are to be vacuumed.

Q24) Please confirm the areas and quantities of concrete restoration as outlined in section 03 03 30 (N.B. during the site visit, no areas of concrete restoration were identified).

A24) Concrete restoration was identified at the pretender meeting. Refer to the Specifications

Q25) Section 03 30 30 specifies a general cement powder for the products which is not suitable for this application. Please provide a suitable pre-packaged cementitious repair product.

A25) Not available.

Q26) Please confirm the product intended for filling the routed cracks (i.e. fairing compound, cement powder or other).

A26) Refer to the specifications.

Q27) Please identify how Section 03 03 30, Item 3.2.1 is to be applied for this project.

Not available.

Q28) In section 03 03 30 Concrete Restoration, Item 3.3.2..2, it is suggested that abrasive blasting is to be performed after crack routing. However, it is typical that cracks only become visible after abrasive blasting is complete. Please confirm your intention for abrasive blasting to be done twice.

A28) It may be necessary to abrasive blast a second time if deemed necessary.

Q29) Given the schedule requirements of this project, allowing a 28 day cure time for concrete before application of the FRP is not feasible on any items repaired under Section 03 30 30. Please identify how to resolve this issue

A29) Follow the manufactures guidelines.

Q30) Please confirm that crack routing already completed is considered sufficient and acceptable to the Owner, its agents and representatives.

A30) You must show all problem areas to the DFO representative and reach an agreement. Note the DFO representative will Have final say in the matter.

Q31) Sections 03 03 30 Item 3.3.2.2 and Section 03 03 30 Item 3.6.3 are contradictory. Please confirm intent.

A31) 3.3.2.2 (Patching) - Include routed cracks with abrasive blasting to roughen cut surfaces.

3.6.3 (Cleaning) - Clean existing concrete surfaces to remove dirt, hydrocarbons, grease, oil, environmental pollutants, and residues.

These items are not in fact contradictory. Item 3.3.2.2 is requesting that the contractor blast routed cracks to roughen the edges, ensuring that the surface is abrasive and appropriately prepped for any concrete patch work. Item 3.6.3 is requesting that the concrete surfaces are cleaned prior to applying any concrete.

Q32) In Section C3012 Glass Fibre Reinforced Plastic (FRP) Lining, Item 1.3.1 provides a list of approved manufactures. However, no one manufacturer is approved for all products. As such, no manufacturer will warrant their products unless they are supplying the complete system. Please indicate how the contractor is expected to provide a 60 month warranty when product manufacturers will not warranty the complete system.

A32) Refer to addendum No. 4

Q33) The specifications do not provide specific products, only product manufacturers. There is a significant amount of products available for the requested type of system based on respective manufacturers' catalog. Please be more specific by stating which particular products are intended. The manufactures provide several products that meet the specifications but are not suitable for the subject application.

A33) Please read the specs. Some products have been tested and approved others not. Whichever product you choose must be approved by DFO and the contractor will always be responsible for 5 years.

Q34) In speaking with the various product manufacturers listed, they feel that the specified system is not being installed using the correct methodology. More specifically, they feel strongly that:

a. The elastomer modified epoxy resin acts as a primer and should be installed BEFORE the Preparation Layer, in order to ensure the preparation layer fully adheres to the concrete substrate. Please confirm acceptance of this ordering.

A34) (a) Refer to specifications.

b. The elastomer modified epoxy resin should be switched to a urethane based primer system. Accordingly, please confirm your acceptance of the primer Reichhold ATPRIME 2.

A34 (b) Refer to the specifications to determine if the product meets the requirements

Q35) Please confirm that the seal layer is to be installed between the laminate layer and the finish layer.

A35) Refer to the specs

Q36) Please confirm whether the product manufacturers or the tender specifications will govern in case of conflict (e.g. some products only require power washing as surface preparation, while the specifications call for abrasive blasting).

A36) Tender specifications will govern

Q37) Addendum #1 states that Fisheries and Oceans Canada has been successfully operating fiberglass rearing and holding vessels for over 40 years.

- a. Please provide a copy of the material specifications used for these vessels,
- b. Please provide a copy of the warranties that were provided for these vessels,
- c. Please indicate whether these vessels were created in a fabrication facility or field constructed, and
- d. Please indicate whether these vessels were free-standing FRP structures or were they lining concrete tanks.

A37 (a,b,c,d) None of the information requested above is available.

Q38) Section C3012, Section 2.2.2 states that "Fisheries and Oceans Canada has identified an FRP based lining system that has demonstrated successful application in providing practical long-term immersion service". Please make available information regarding the specific products, suppliers, manufacturers and warranties such that compliance with contract intent can be ensured.

A38) Not available.

Q39) Please confirm Hunter Green is the finish colour.

A39) Hunter green is the recommended colour. Other colours will be considered. And approval of the DFO Biologist will be required.

Q40) Can the complete liner be done in fiberglass or does the non fish rearing/holding zone have to be done in primer as per Addendum 2?

A40) The non fish rearing /holding area could be done in fibreglass. However, contractor is responsible for 5 years of the finished product.