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Regional Manager/Real Property  
Contracting/PWGSC  
Ontario Region, Tendering Office  
12th Floor, 4900 Yonge Street  
Toronto, Ontario  
M2N 6A6  
Ontario

**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**  
Regional Manager/Real Property Contracting/PWGSC  
Ontario Region, Tendering Office  
12th Floor, 4900 Yonge Street  
Toronto, Ontario  
M2N 6A6  
Ontario

<b>Title - Sujet</b> TSW South Bundle Prime Consultant	
<b>Solicitation No. - N° de l'invitation</b> EQ754-171285/A	<b>Amendment No. - N° modif.</b> 003
<b>Client Reference No. - N° de référence du client</b> R.076951.138	<b>Date</b> 2016-10-24
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWL-041-2215	
<b>File No. - N° de dossier</b> PWL-6-39078 (041)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2016-11-08</b>	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Chan, Ricky	<b>Buyer Id - Id de l'acheteur</b> pwl041
<b>Telephone No. - N° de téléphone</b> (416) 512-5276 ( )	<b>FAX No. - N° de FAX</b> (416) 512-5862
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Various Locations Trenton, ON X1X 1X1	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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Solicitation Amendment No. 003 is being raised to:

- (A) Amend the Request for Proposal; and
  - (B) Respond to questions related to this Request for Proposal.
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### SECTION A – MODIFICATIONS TO THE REQUEST FOR PROPOSAL

- 1) In Annex A Project Brief, 1.4 Description of Sites (Designed under this Project Brief), 1.4.1 Site A: Dam 1 at Lock 1 Reconstruction and Lock 1 Rehabilitation, Trenton, 1.4.1.2 Scope of the Work:

**DELETE:** line c) in its entirety.

**INSERT:**

“c) The new dam construction needs to account for the future hydro generating plant.”

- 2) In Annex A Project Brief, 1.4 Description of Sites (Designed under this Project Brief), 1.4.1 Site A: Dam 1 at Lock 1 Reconstruction and Lock 1 Rehabilitation, Trenton, 1.4.1.2 Scope of the Work:

**INSERT:**

Under the section starting with “The design of Dam 1 is to account for the following site specific items:” insert the following new bullet:

- “New vehicular/maintenance/visitor dam deck suitable for access by the Client Department’s maintenance vehicles with bed-mounted crane or by mobile cranes capable of lifting and transporting a radial gate off the dam for maintenance (or by a construction crane during construction).”

- 3) In Annex A Project Brief, 1.4 Description of Sites (Designed under this Project Brief), 1.4.1 Site A: Dam 1 at Lock 1 Reconstruction and Lock 1 Rehabilitation, Trenton, 1.4.1.2 Scope of the Work:

**INSERT:**

Following the paragraph starting with “Rehabilitation of Lock 1 and other associated structures.”, insert the following:

“It is anticipated that the work will involve cut back and resurfacing work for most of the approach walls, upper monolith and the lock chamber walls. Furthermore, it is also anticipated that the lower monolith, due to their advanced deteriorated state, demolition and reconstruction will be required. In addition to the work on the lock and approach walls, it is anticipated that the lower lock canal walls will require similar cut back and resurfacing work for a section of the walls, while the remaining sections may be simply demolished. Existing timber

gates, gate gudgeon assemblies and anchors, gate lower pintle assemblies, and associated mechanical equipment are to be salvaged and reinstalled.”

- 4) In Annex A Project Brief, 1.4 Description of Sites (Designed under this Project Brief), 1.4.1 Site A: Dam 1 at Lock 1 Reconstruction and Lock 1 Rehabilitation, Trenton, 1.4.1.2 Scope of the Work:

Before the paragraph starting with “Demolition and removal of existing dam and associated structures from site, and construction of new replacement dam with radial gate system .... “ insert the subsection heading :

**INSERT:**

***“Expected Outcome and Construction Deliverables:”***

- 5) In Annex A Project Brief, 1.4 Description of Sites (Designed under this Project Brief), 1.4.6 Site F: Ranney Falls Locks 11 and 12 – Lock Gate and Valve Rehabilitation, 1.4.6.2 Scope of the Work:

**INSERT: (after second paragraph)**

“As part of the work for the hinge replacement, the gate lower pintle of Gate #1 is to be inspected, and repairs as required. Damage to the pintle and/or the pintle lock plates is expected due to the gate movement that would have occurred when the gate failed.”

- 6) In Annex A Project Brief, 1.4 Description of Sites (Designed under this Project Brief), 1.4.8 Site J: South Sector Concrete Repairs, 1.4.8.1 Healey Falls Locks 15, 16, 17, 1.4.8.1.2 Scope of the Work:

**DELETE:**

“A third related objective being considered by Parks Canada is the future replacement of the existing Lock 16/17 Control building, with a new building that will meet the needs of the Operational and Maintenance Requirements as well as address any accessibility issues for the public. The building scope has not yet been developed or funded and is for consideration in facilitating design of the lock rehabilitation for compatibility with this future potential project.”

- 7) In Annex A Project Brief, 3.5 Post Design Phase, 3.5.3 Construction Phase, 3.5.3.2 Tasks:

**INSERT:**

- “27. Provide full time Resident Site Representative to:
- i. assist in carrying his construction and contract administration duties;
  - ii. inspect all phases of the work in progress, for the purpose of bringing to the attention of the Contractor, after confirming with both the Consultant and the Departmental Representative, any discrepancies between the work, the contract documents, the schedule and accepted construction procedures and practices;

- iii. assist PWGSC in ensuring prompt implementation by the Contractor of all remedial actions accepted by the Departmental Representative in writing, and issue a written confirmation of their completion to the Consultant, to the Departmental Representative and to the Contractor;
- iv. maintain and submit to Departmental Representative a detailed and descriptive daily log of all inspections, attendees onsite, observations, work progress, equipment and workers, material quantities, site conditions, weather, and of unexpected occurrences on site, and additionally, on a consistent day of each week, electronically issue a weekly summary report to include pertinent photographs prepared in the format acceptable to the Departmental Representative and to the Consultant;
- v. prepare weekly any other reports or surveys as may be required to provide complete information to Departmental Representative;
- vi. verify quantities of materials received and record work progress through photographs (digital files to be submitted to PWGSC);
- vii. communicate with the Contractor in a formal manner (written as required) and contact the Consultant when actions of the Consultant are required (instructions, clarifications, requisitions, Change Orders etc.);
- viii. maintain on site a complete inventory of construction documents and files for the Departmental Representative, Consultant and himself;
- ix. stop work in the event of emergencies, contact local security or emergency services in the event of traffic related or public security emergencies;
- x. provide environmental monitoring and enforcement during construction.”

### SECTION B - QUESTIONS AND ANSWERS

#	Question	Response
24	Please confirm if any of the Civil/Structural Dam Engineers, either as an additional Senior Team Leader and/or as Engineering Team Members, can be a sub-consultant to the Proponent.	While the Civil/Structural Engineering Senior Team Leader and two (2) Team Members submitted for evaluation under the Submission Requirements and Evaluation section (and under Appendix A Consultant Team Identification) are required to be in-house resources of the Proponent firm, additional civil/structural engineering Consultant Team members may be either in-house resources or sub-Consultants to the Proponent firm. It is a mandatory requirement of this Request for Proposal that the identified and rated Civil/Structural Engineering Senior Team Leader and two (2) Team Members be in-house resources of the Proponent. It is however understood that the Consultant Team may need to be augmented to assist

		<p>with the fulfillment of this project's mandate, as such, non-rated civil/structural engineering support staff may be in-house resources or sub-Consultant to the Proponent firm.</p> <p>As the Senior Team Leader and Engineering Team Members are carrying out the civil/structural engineering and/or management work on this project, all civil/structural design work shall be reviewed and sealed by the in-house Civil/Structural Engineers identified and rated in the technical proposal submission.</p>
25	<p>Campbellford and Crowe Bay scope of work appear to be part of solicitation EQ754-171034/A. Required services RS 10 Tender Call, Bid Evaluation and Construction Contract Award, RS11 Design Services during Construction and RS14 Post Construction Services were part on the Campbellford scope of work. Why is this work repeated in this request?</p>	<p>The scope of services under EQ754-171034/A for RS10, RS11 and RS14 are intended as support services to the Prime Consultant associated with the work that was designed under that contract. As mentioned in Section 1.3 (page 11), the Prime Consultant will be responsible for the tender, contract administration, construction and post construction services.</p>
26	<p>Does the replacement of lower lock gates require any work on the operating equipment?</p>	<p>The intent is to re-use the existing hydraulic operation system, with the exception of the hydraulic cylinders that operates the gates. As part of the site investigation, the Consultant will need to ensure that the existing hydraulic operation system is adequate for the operations of the new gates.</p>
27	<p>Will there be any information supplied on the Sault Ste. Marie gate anchor design after the contract is awarded?</p>	<p>The Sault Ste. Marie gate gudgeon connecting links and anchors design replacement, together with associated studies will be made available to the successful proponent. To clarify, references throughout the Project Brief to the replacement of the steel gate hinge refers to the replacement of gudgeon connecting links and anchors of the steel gate.</p>
28	<p>Can vertical steel gates be considered versus radial gates for Dam 1 spillway?</p>	<p>As part of the Conceptual Design for Dam 1, options for both Vertical Steel Gates and Radial Gates can be presented, and the final decision on the type of gates will be based on the benefit and cost impact review.</p>

29	What is the standardized size of the radial gates? Are they the same dimensions as those at Campbellford?	The Radial Gates that are presently used on the waterway are 15.24m (50ft) in width.
30	There was talk of having a preference for the same type of gates as those installed at the Buckhorn Dam 31 location. Are these radial arm fishbelly tainter gates? Can this be confirmed and for which sites? If so, are general arrangement drawings available and can we receive them? These are not common type of gates.	Buckhorn Dam is the only dam on the Waterway with fishbelly tainter gates. Fishbelly tainter gates can be considered for the design, final decision on the type of gates will be based on the benefit and cost impact review.
31	Why is there mention of rehabilitation/new dam construction indicated in article 1.4.1.2 c) for the scope of work for Dam 1 when replacement appears to be mentioned everywhere else in this section?	The reference to the rehabilitation for Dam 1 is an error and will be removed. The project is to replace the dam. This article of the Project Brief has been updated in Section A above.
32	For Site C Dam 6, there is no mention of adding upstream gains for the conversion of the overflow spillway to vertical mechanical gates. Should this work be added?	The new mechanized spillways are to be equipped with upstream service gains.
33	Can we expect that the locks requiring rehabilitation work will be emptied for full access and inspection before the design concept/development phases?	If required, the locks to be rehabilitated can be fully dewatered to allow for access and inspection.
34	What type of guard gate exists at site C? Is there a specific type of replacement gate required by PWGSC? On site visit, it was mentioned that ordinary wood stop logs would be installed with a mobile crane. If this is the case, why is there an item for its replacement?	The existing guard gate at Site C is a "swing bridge guard gate" which would have been swung over the canal entrance to allow for the installation of stop logs. For the new guard gate the Consultant is to provide options of various potential systems as part of the Conceptual Design stage. One option that can be presented is the "ordinary stop logs installed with a crane. The Final decision on the design will be based on benefit and cost impact review.
35	In article 1.4.6.2 Scope of work for Locks 11 & 12, it is indicated rehabilitate/replace the existing valves and it is also indicated to replace the 6 existing centrifugal valves with the same design or new valve design system. Must we conclude that the valves are all to be replaced and will not be rehabilitated?	Yes, all cylindrical valves (not centrifugal valve) are to be replaced. As part of the conceptual design, the consultant is expected as a minimum to propose an option for new valves, similar to the existing one, but with modern materials, and a second option using a design recommended by the Consultant.
36	Have there been previous replacements of lock wood gates with steel gates on the Trent-	Yes, timber gates have been replaced with steel gates on the waterway. The drawing for these gates can be made available to the

	Severn Waterway? If so, are drawings available of the steel gates?	successful proponent. The Consultant will be required to incorporate the new design of the gudgeon connecting links and anchors into the gate replacement drawings.
37	Are drawings available for the recent guillotine style valve at Meyers Lock 9?	If required, the drawing of the new guillotine valve at Meyers Lock 9 will be made available to the successful proponent.
38	Are hinges of gates of Locks 8, 9 & 10 to be replaced?	Yes, as part of the work to replace the lower timber gates with new steel gates, new top hinges (gudgeon connecting links and anchors) and lower pintle will be required. The work will also include concrete work for the installation of the new gudgeon anchors, the reconfiguration of the gate quoin, the installation of vertical contact beam to allow for a seal along the vertical gate edge and modification to the sill.
39	In the RFP, there is no list of existing documentation in Annex AA. Is such a list available?	No.
40	Is it possible to consult available investigation data (geotechnical reports, concrete coring and strength, bathymetry) obtained from recent inspections?	Available studies/reports and topographical and bathymetry work will be shared with the successful proponent. Note topographic and bathymetric survey is only available at Dam 1.
41	Section 1.4.1.2 p.23: please explain what is meant by "time-to-first-major-repair of 50 years" under the section "Rehabilitation of Lock 1 and other associated structures."	The rehabilitation work/design need to be such that the structure will not require any major repair work for at least 50 years after the completion of the rehabilitation of the lock.
42	Section 1.4.1.2 p.23: Who is responsible for the design of the mitigation barriers required for Asian Carp?	Work under TSW South Bundle program of work and this contract <u>does not</u> include any design or related work associated with an Asian Carp barrier at the lower Lock Canal.
43	RFP states that "design, installation and removal of cofferdams and all other temporary works" are part of the scope (i.e. p.24 &27). Our understanding is that the Prime Consultant is responsible for preparing the design criteria and submitting them to the Contractor, but it is the Contractor that is responsible for the detailed design of the temporary works. Please confirm our understanding.	Note the reference of "design, installation and removal of cofferdam and all other temporary works" is under the heading of "Expected Outcome and Construction Deliverables:" and as such refers to work to be completed by the Construction Manager/Contractor.
44	In the case where a replacement of a dam structure is considered, please confirm if the	When possible and where required by the CRM review, the new structure(s) is to keep

	new structure must keep the same general appearance as the original one or if it can be modified (i.e. number of sluices, size and overall shape of piers, alignment, etc.)	the general appearance of the original structure(s). Number of sluiceways, piers size and shape need to be designed to meet the technical requirements for the structure.
45	Regarding Site D -Meyers Dam 8 at lock 9; could you please provide the single line diagram of the existing electrical system and layout of the control building?	Single line diagrams of the existing electrical system are not readily available. The Consultant will need to get fully familiar with electrical system as part of the site inspection/investigation work.
46	Is it possible to obtain photos and/or aerial views of the South Bundle sites showing Park Canada Agency's property limits?	Parks Canada property limits, for the various sites under the bundle, will be made available to the successful Proponent.
47	At site B Glen Miller Dam 3, article 1.4.2.2 indicates "a new vehicular dam shall have a new vehicular access deck designed for full highway loading prescribed in the CSA S6-14 Code for Ontario trucks". Please confirm, according to S16-14, the traffic load on the bridge will be: a) CL 1-625-ONT TRUCK LOAD b) Number of lanes loaded : 2 c) Highway class: B	The intent is to have a deck capable of supporting maintenance vehicle. In order to achieve this requirement the deck is to be capable of supporting, as a minimum, a CL1-625-ONT truck load. The deck will be a "single lane".
48	Is factory testing for the mechanical and control equipment required for this scope of work?	Factory testing is not required, but the Prime Consultant or members of his team are expected to carry out shop visits and inspections during the fabrication/assembly of the various equipment or components
49	In the RFP, 1.4.1.2.I, scope of work includes arrangement for land acquisition or leasing. Can we assume that the Prime Consultant will identify the land as part of the Design Concept (completion January 2017 as per Amendment 001) and PWGSC will make acquisition/lease arrangements before Start of Construction (July 2017)? Will the Prime Consultant be involved in any negotiations with the land owners for acquisition/leasing? Has PWGSC/PCA already identified land that could potentially be acquired or leased?	Construction Manager will be responsible to identify, and acquire or leasing any additional lands, outside PCA property, required for the use by the Construction Manager/Contractor in order to complete the Work at the sites. Other than assisting the Construction Manager in identifying the needs for additional land, the Prime Consultant will not be involved with the acquisition or leasing or negotiation work of these additional lands.

**ALL OTHER TERMS AND CONDITIONS OF THE REQUEST FOR PROPOSAL REMAIN UNCHANGED**