



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Bid Receiving - PWGSC / Réception des soumissions -  
TPSGC

11 Laurier St. / 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

**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**

Fuel & Construction Products Division

L'Esplanade Laurier,

140 O'Connor Street,

East Tower, 4th floor,

Ottawa

Ontario

K1A 0S5

<b>Title - Sujet</b> Water Treatment System	
<b>Solicitation No. - N° de l'invitation</b> W8476-216378/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> W8476-216378	<b>Date</b> 2022-04-14
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HL-673-81098	
<b>File No. - N° de dossier</b> hl673.W8476-216378	<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> Eastern Daylight Saving Time EDT <b>on - le 2022-06-30</b> Heure Avancée de l'Est HAE	
<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> Shaun Feagan	<b>Buyer Id - Id de l'acheteur</b> hl673
<b>Telephone No. - N° de téléphone</b> (613) 295-9018 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Specified Herein	

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>

**This amendment is raised to:**

- 1. Answer questions from potential bidders**
- 2. Amend the Request for Proposals**
- 3. Extend the closing date of the RFP**

**Questions:**

**Q1.** At Annex A1, 4.3.3.1 and the referenced CDRL makes numerous references to Appendix A4.0. Please confirm this is the same as Appendix A, A4.0 Appendix on page 239/262?

**A1.** Yes, the Appendix A4.0 is located on page 239/262 of the WTS SOW.

**Q2.** At Annex A1, 4.3.3.1 specifies a requirement for Level 2 drawings however Appendix A, A4.0 makes reference to Level 1, 2 and 3 drawings. Please confirm that all drawings to be delivered in the resulting contract are Level 2 drawings?

**A2.** In Para. 4.3.3.1 of Appendix A, Canada refers to the CDRL and DID WTS-SE-104 which specify when the contractor must provide Level 1 Engineering Drawings - Design and Development Drawing, and when the contractor must provide Level 2 Engineering Drawings - Production Prototype and Limited Production.

**Q3.** At Annex F, will Canada provide a spreadsheet for Bidder's to submit prices for their proposal?

**A3.** Yes, it is recommended to request the Excel spreadsheets from the Contracting Authority directly.

**Q4.** At Annex F, Table 2, Note 5: It is understood that the ISS contract will begin once Initial Operating Capability has been achieved. Please note that this is the only reference to IOC in the RFP. Please advise what constitutes IOC?

**A4.** As indicated in Annex B2, Para. 1. "The ISS Contract commences with acceptance of the first WTS system under the WTS Acquisition Contract". Refer to amendment of Annex F below.

**Q5.** At Annex E, please consider deleting the current requirement stated in M-1 and replacing with the suggested text largely similar to that specified in M-1 from Canada's RFI, Amendment 008 dated 2019-09-26:

~~"The Bidder's Team must have designed, tested and delivered two (2) different potable water purification systems within the last 10 years, each having met or exceeded all of the following requirements:~~

The Bidder's Team that will design and engineer the water filtration and treatment modules for the WTS, must have delivered a minimum of two (2) different water purification systems within the last 10 years, each having met or exceeded one or more of the following requirements:

1. Treats a high salinity source water of a minimum of 25,000 ppm of Total Dissolved Solids (TDS).
2. Treats high levels of organic compounds of a minimum of 15 mg/L of Dissolved Organic Carbon (DOC).
3. Treats a source water containing high levels (minimum of 25 mg/L) of heavy metals.

The Bidder must provide the following information in their supporting documents for each of ~~the two~~ (2) different potable water purification systems:

1. A copy of the front page of the signed contract proving delivery of the system or a formal letter from the customer certifying receipt of the system with a customer point of contact whom DND can contact to verify information provided by the Bidder.
2. Overall description of the potable water purification system, with a detailed description of:
  - a. the design of the filtration system,
  - b. the performance specifications for the system,
  - c. the source water parameters, and
  - d. ~~the testing conducted and the resultant water parameters achieved.~~

**A5.** The current requirement will remain unchanged with the exception of one addition. Refer to the amendments to ANNEX E, M1 below.

**Q6.** Please consider deleting the current requirement stated in M-2 and replacing with the suggested text largely similar to that specified in M-4 from Canada's RFI, Amendment 008 dated 2019-09-26:

~~The Bidder's Team must demonstrate that it has designed, tested and delivered a minimum of three (3) different "Fleets" (as defined in paragraph 4.1.1.2) of "Heavy Trailers" (as defined in paragraph 4.1.1.4 within the past ten (10) years.~~

The Bidder's Team must demonstrate that it possesses a minimum of 10 years of experience in designing and producing fleets of "Heavy Trailers" (as defined in paragraph 4.1.1.4). A minimum of two (2) such fleets is required.

The Bidder must provide the following in their supporting documents for each of these above fleets:

1. A copy of the front page of the signed contract proving delivery of the fleet or a formal letter from the customer certifying receipt of the system with a customer point of contact whom DND can contact to verify information provided by the Bidder.

2. A description of the "Heavy Trailers" that were delivered including:
- a. Number of "Heavy Trailers" delivered,
  - b. Date of delivery, and
  - c. Contract value.

**A6.** The current requirement will remain unchanged.

**Q7.** At Annex E, Please amend PR-1 as follows:

For the ~~potable~~ water purification systems delivered in accordance with M1, additional points will be awarded if at least one (1) of the ~~two (2)~~ systems meets or exceeds the following requirements:

1. Treats a high salinity source water of a minimum of 45,000 ppm of Total Dissolved Solids (TDS).
2. Treats high levels of organic compounds of a minimum of 20 mg/L of Dissolved Organic Carbon (DOC).
3. Treats Nuclear, Biological and Chemical (NBC) agents.
4. Is "Mobile" as defined in paragraph 4.1.1.1.
5. Is containerized in an ISO Container (seacan, bicon or quadcon).
6. Is a "Fleet" as defined in paragraph 4.1.1.2 that has been delivered to a NATO nation.

The Bidder must provide the additional information in their supporting documents to supplement the information needed as part of M1 to show compliancy with the above requirements:

1. A copy of the front page of the signed contract proving delivery of the system or a formal letter from the customer certifying receipt of the system.
2. A customer point of contact for the system whom DND can contact to verify information provided by the Bidder."

Delete following since it is already provided in M-1:

- ~~3. Overall description of the water purification system.~~
- ~~4. Detailed description of the design of the filtrate system.~~
- ~~5. Performance specifications for the system.~~
- ~~6. Detailed description of source water parameters.~~
- ~~7. Detailed description of the testing conducted and the resultant water parameters achieved.~~

**A7.** The current requirement will remain unchanged.

**Q8.** At Annex E, please consider amending PR-2 to reduce the number of fleets to attain 5 points, to three (3) or four (4) from five (5) or six (6), and for 8 points, to five(5) from seven (7).

**A8.** The current requirement will remain unchanged.

**Q9.** At Annex E, PR-3 through PR-5 permit scoring either through fleets of major equipment or minimum \$14M in fleets of complex mechanical equipment. The following requirements require amending since they are missing the reference to complex mechanical equipment:

PR-4: item 5, second item 3 and second item 5

PR-5: item 3 and item 5 for both 5 point and 8 point scoring

**A9.** Refer to the amendments to ANNEX E, PR4 and PR5 below.

**Q10.** At Annex E, PR-4, item 6 should refer to Integrated Logistics support, not sustainment.

**A10.** Yes. Refer to the amendments to ANNEX E, PR4 below.

**Q11.** Attaining minimum 38 points in the point-rated scoring required under 4.5.1 may prove challenging for bidders and given Canada's stated preference for Contractor's to hold ISO 14001 registration as described in article 5.2.3 of the RFP and Annex A2 article 3.1.2.2.1, please consider adding a sixth point rated criteria to award 5 points to those Bidder's that demonstrate registration to ISO 14001. A score of minimum 38 out of 67 points would determine whether the proposal is responsive.

**A11.** The current requirement will remain unchanged.

**Q12.** At Annex A1, Appendix 5 pages 251 and 252 of 262 – the information on the pages is cut off because it is not centered. Can you re-send these pages so that all the information is legible?

**A12.** English document only, Yes, pages 251 and 252 of 262 at Annex A1, Appendix 5 are reproduced below.

**Q13.** In the RFP Article 2.1, given that Canada has extended the bid validity period, will Canada also extend the minimum time to request any extension to the validity period to 9 days which is a commensurate increase?

**A13.** Yes, if required, Canada agrees to seek an extension of the bid validity period from all responsive bidders in writing, within a minimum of 9 days before the end of the bid validity period.

**Q14.** In Annex E from M1, through to PR-3, there are numerous locations it states that "The Bidder's team must have manufacturing experience... within the last ten (10) years...". What is the cut-off date in order to be compliant?

**A14.** For all references to previous experience, the cut-off date is 10 years prior to the RFP publication date of 25 Mar 2022.

**Q15.** In Annex E from M3 E through to PR-5, in numerous locations it states "...complex mechanical equipment having a minimum monetary value of \$14M CAD...". Does this amount include or exclude taxes?

**A15.** The minimum monetary value of \$14M CAD includes taxes.

**Q16.** At Annex F, In-Service Support Financial Evaluation Table, could you confirm the meaning of "Travel cost" mentioned in the Details column of this part of Annex F? Would the cost of Travel meaning to exclude the Travel and Living expenses or only Travel expenses?

**A16.** Exclusion of travel costs refers to the exclusion of transportation, accommodation, and living expenses in accordance with the National Joint Council (NJC) Travel Directive.

**Q17.** In order to submit a fully responsive, high quality proposal, we hereby request an extension to the closing date until July 19, 2022.

**A17.** At this time, Canada agrees to extend the closing date to June 30, 2022.

## Annex A, Page 251-252 English version only

### A5.2 Test Water Preparation and Verification

Table 1. Test Water Ingredients and General Parameter Requirements.

		Test Water							
		1 – Bio-fouling and Hardness		2 – Bacteria and Virus Elimination		3 – Organic Reduction		4 – Inorganic Reduction	
Required Minimum Concentration	Free Chlorine (ppm)	<0.002		<0.002		<0.002		<0.002	
	Water Temperature (°C)	18-22		18-22		18-22		18-22	
	pH	6-8		6-8		6-8		6-8	
	TDS (ppm)	45,000 (±10%)		≥300		≥300		≥1,500	
	Hardness (ppm CaCO <sub>3</sub> )	≥200		<200		<200		<200	
	DOC (ppm)	≥20		≥10		<5 <sup>1</sup>		<5 <sup>1</sup>	
	Turbidity (NTU)	≤1		≤1		≤1		≤1	
		Sodium chloride	44,780 ppm	Escherichia Col	5·10 <sup>8</sup> CFU/L	MTBE	0.25 ppm	Sodium Arsenite	1 ppm (as arsenic (III))
		Calcium chloride	200 ppm calcium carbonate equivalent	GI F-Specific RNA Coliphage MS2	5·10 <sup>8</sup> PFU/L	Carbon Tetrachloride	0.1 ppm	Sodium Iodide	60 ppm (as iodide)
		Magnesium chloride		Sodium Chloride	290 ppm	Chloroform	2.0 ppm	Sodium Fluoride	50 ppm (as fluoride)
		Humic acid	20 ppm	Humic acid	10 ppm	Benzene	0.4 ppm	Sodium Perchlorate	0.2 ppm (as perchlorate)
						Sodium Chloride	300 ppm	Sodium Nitrate	195 ppm (as nitrate)
								Cesium Chloride	1.5 ppm (as cesium)
								Mercury (II) Chloride	0.02 ppm (as mercury (II))
								Lead (II) Chloride	0.5 ppm (as lead (II))
							Sodium Chloride	135 ppm	

<sup>1</sup> Based on Ontario Ministry of the Environment (MOE). 2003 (revised 2006). The Technical Support Document for the Ontario Drinking Water Quality Standards, Objectives and Guideline. PIBS 4449e01 Available on <https://www.ontario.ca>

## A5.3 Test Procedures and Minimum Performance Requirements

### A5.3.1 Requirements

- A5.3.1.1 The required test conditions, test water concentrations, and allowable permeate concentrations for each of the test waters are in Sections A1.5.2 – A1.5.5. The general parameters defined in Section A1.4 must be monitored in-situ and maintained throughout the test. The specific test water and permeate contaminant concentrations will be verified by laboratory testing.

### A5.3.2 Test Water 1: Organic Carbon Fouling and Hard Water Treatment

- A5.3.2.1 The test water parameters, contaminant concentrations, and allowable permeate concentrations for organic carbon fouling and hard water treatment are in Table 2.

**Table 2. Test water 1 - Test Conditions, Contaminant Parameters and Performance Requirements**

Test Conditions		
Test Duration		2 hrs
Required Average Permeate Flow Rate		625 L/h
Contaminant Parameters and Performance Requirements		
Contaminant Parameter	Test Water Concentration (ppm)	Allowable Permeate Concentration (ppm)
TDS	45,000 +/- 10%	AO: ≤ 500 (Table 2, p. 19) <sup>1</sup>
Hardness	200	80-100 (Table 2, p. 13)
DOC	20	AO: 5 (p. 21) <sup>2</sup>
Sodium	17,616 ppm	200 ppm (Table 2, p. 18) <sup>1</sup>
Chloride	27,164 ppm	250 ppm (Table 2, p. 9) <sup>1</sup>

<sup>1</sup> AO – Aesthetic Objective. Health Canada (2020). Guidelines for Canadian Drinking Water Quality – Summary Table. Water and Air Quality Bureau, Healthy Environments and Consumer Safety Branch, Health Canada, Ottawa, Ontario.

<sup>2</sup> AO – Aesthetic Objective. Ontario Ministry of the Environment (MOE). 2003 (revised 2006). The Technical Support Document for the Ontario Drinking Water Quality Standards, Objectives and Guideline. PIBS 4449e01 Available on <https://www.ontario.ca/>

### A5.3.3 Test Procedure:

- A5.3.3.1 The WTS must be flushed with water as per system requirements and the flow rate and pressure must be recorded after every unit operation in the WTS to use as a clean system baseline.
- A5.3.3.2 The test water must run through the WTS with the WTS operating in a double-pass mode. The trial is said to start 5 minutes after the test water begins being processed by the WTS and the trial is set to last for 2 hours. The inlet temperature reading and the inlet total dissolved solids reading must be recorded at the start of the trial and every 5 minutes after trial start to ensure feed consistency. These values must be automatically monitored and recorded for the entire duration of the trial.
- A5.3.3.3 The flow rate and pressure must be recorded after every unit operation in the WTS at the start of the trial and every 5 minutes after trial start. These values must be automatically monitored and recorded for the entire duration of the trial.



---

**The Solicitation is hereby amended as follows:**

- The closing date of the RFP is extended to June 30, 2022 at 2:00 pm.
- At Annex A1, Section 9.0:
- **Delete:** All

**Insert:**

**9.0 ENVIRONMENTAL MANAGEMENT AND ASSESSMENT**

**9.1 General**

9.1.1 In accordance with the Prohibition of Certain Toxic Substances Regulations (SOR/2012-285), the Contractor must not incorporate the substances listed under this regulation in any part of the equipment

9.1.2 In accordance with the Prohibition of Asbestos and Products containing Asbestos Regulations (SOR/2018-196), the Contractor must offer asbestos-free equipment.

9.1.3 In accordance with the Products Containing Mercury Regulations (SOR/2014-254), if mercury is present in any part of the equipment, the Contractor must comply with the mercury content limit in regulation SOR/2014-254. If such substances must be used, the Contractor must:

9.1.3.1 Inform the Technical Authority by identifying the substance(s).

9.1.3.2 Identify the specific location within the equipment and the quantity.

9.1.4 In accordance with the Polychlorinated Biphenyls (PCBs) Regulations (SOR/2008-273), if PCBs are present in any part of the equipment, the Contractor must comply with the regulation. If such substances must be used, the Contractor must:

9.1.4.1 Inform the Technical Authority by identifying the substance(s).

9.1.4.2 Identify the specific location within the equipment and the quantity.

9.1.4.3 Certify that there is no technically- or economically-feasible PCB-free alternative.

**9.2 Environmental Management System**

9.2.1 The Contractor must implement and maintain an Environmental Management System which is consistent with the principles presented in ISO 14001. Certification to this standard is preferred but not mandatory.

9.2.2 The Contractor must have a formalized set of procedures and control measures in place to demonstrate environmental compliance and minimize environmental impact of the work.

9.2.3 The Contractor must use low-risk chemical products for equipment maintenance and repair where feasible. Low-risk chemical products are defined as those that do not contain substances regulated under the Canadian Environmental Protection Act, 1999 and listed on Schedule 1 of the Canadian Environmental Protection Act.

9.2.4 Prior to the commencement of work, the Contractor must have in place an Emergency / Spill Response Plan and also processes and procedures for the identification, management, handling and disposal of all substances, pollutants and material covered by the applicable municipal, territorial, provincial, federal environmental protection statutes and regulations.

9.2.5 The Contractor must update the Equipment Environmental Assessment (EEA), after it is delivered, under the following circumstances:

9.2.5.1 There are changes related to the items identified on the Hazardous Substances & Chemical Products table; or

9.2.5.2 New items/components are introduced as a result of configuration changes or modifications that contain hazardous substances and chemical products identified in the EEA.

### 9.3 Environmental Packaging Labels

9.3.1 The Contractor must label and ship goods falling within the Hazardous Products Act, R.S.C. 1985, C. H-3 and regulation(s) thereunder, in accordance with the said Act and regulation(s).

9.3.1.1 The Contractor must clearly identify the contents of the hazardous material with labels, and the Safety Data Sheet must explain what those hazards are.

### 9.4 Equipment Environmental Assessment

9.4.1 The Contractor must prepare and submit an EEA IAW CDRL WTS-ILS-201 at Appendix **Error! Reference source not found.** (page **Error! Bookmark not defined.**) to ANNEX A1, and its associated DID WTS-ILS-201 at Appendix **Error! Reference source not found.** (page **Error! Bookmark not defined.**) to this ANNEX A1.

9.4.2 The Contractor may provide Commercial in Confidence information in a separate document.

- At Annex E, M1:

**Delete:** The Bidder's Team must have designed, tested and delivered two (2) different potable water purification systems within the last 10 years, each having met or exceeded all of the following requirements.

**Insert:** The Bidder's Team must have designed, tested and delivered a minimum of two (2) different potable water purification systems within the last 10 years, each having met or exceeded all of the following requirements.

- At Annex E, **PR4** point # 3 of the (8 point section) "Bidder must provide the following information..."

**Delete:** A description of the "Major Equipment" for which Integrated Logistics Support was provided.

**Insert:** A description of the "Major Equipment" or the fleet of complex mechanical equipment for which Integrated Logistics Support was provided.

- At Annex E, **PR4** point # 5 of the (5 and 8 points section) "Bidder must provide the following information..."

**Delete:** Monetary value of the "Major Equipment".

**Insert:** Monetary value of the "Major Equipment" or the fleet of complex mechanical equipment for which Integrated Logistics Support was provided.

- At Annex E, **PR4** point # 6 of the (5 and 8 points section) “Bidder must provide the following information...”

**Delete:** Date that the sustainment was provided.

**Insert:** Date that the Integrated Logistics support was provided.

- At Annex E, **PR5** point # 3 and # 5 of the (5 points section) Bidder must provide the following information...

**Delete:** A description of the “Major Equipment”.

**Insert:** A description of the “Major Equipment” or the fleet of complex mechanical equipment that was sustained.

- At Annex E, **PR5** point # 3 and # 5 of the (8 points section) “Bidder must provide the following information...”

**Delete:** Monetary value of the “Major Equipment”.

**Insert:** Monetary value of the “Major Equipment” or the fleet of complex mechanical equipment”.

- At Annex F, Note 5:

**Delete:** The In-Service Support contract will be issued as a separate contract from the Acquisition Contract, and will only be initiated once Initial Operating Capability has been achieved in the Acquisition Contract.

**Insert:** The In-Service Support contract will be issued as a separate contract from the Acquisition Contract and will commence following acceptance of the first WTS system under the WTS Acquisition Contract.

**\*All other terms and conditions remain unchanged\***