

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works & Government Services  
Canada/Réception des soumissions Travaux publics et  
Services gouvernementaux Canada**  
**1713 Bedford Row**  
**Halifax, N.S./Halifax,(N.E.)**  
**B3J 1T3**  
**Halifax**  
**Bid Fax: (902) 496-5016**

**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**  
Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.E.)  
B3J 3C9  
Halifax  
Nova Scot

<b>Title - Sujet</b> Construction Services - Wave Tanks	
<b>Solicitation No. - N° de l'invitation</b> EB144-151862/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> EB144-151862	<b>Date</b> 2015-02-11
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$PWA-121-5196	
<b>File No. - N° de dossier</b> PWA-4-72079 (121)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-02-18</b>	<b>Time Zone</b> Fuseau horaire Atlantic Standard Time AST
<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> Russell (PWA), Alex	<b>Buyer Id - Id de l'acheteur</b> pwa121
<b>Telephone No. - N° de téléphone</b> (902) 496-5168 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**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 (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

Solicitation No. - N° de l'invitation

EB144-151862/A

Amd. No. - N° de la modif.

001

Buyer ID - Id de l'acheteur

pwa121

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**Amendment 001 is raised for the following:**

### **1.0 Solicitation Closing Date**

Delete: Feb 13<sup>th</sup>, 2015.

Insert: Feb 18<sup>th</sup>, 2015.

### **2.0 Questions and Answers**

Q1. There is no specification for the pumps in the tender document. Is there a spec available?

A1. Yes, please see attached Section 22 10 10.

Q2. Could you confirm that a UXO clearance of the site has been conducted, or that if UXO's are encountered that would be considered extra to the contract?

A2. If UXO's are encountered it would be an extra to remove.

***All other terms and conditions remain the same.***

## **PART 1 – GENERAL**

### **1.1 SUBMITTALS**

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and data sheet for fixtures and equipment.
- .3 Shop Drawings.
  - .1 Submit shop drawings to indicate:
    - .1 Equipment, including connections, fittings, control assemblies and ancillaries. Identify whether factory or field assembled.
    - .2 Wiring and schematic diagrams.
    - .3 Dimensions and recommended installation.
    - .4 Pump performance and efficiency curves.
- .4 Instructions: submit manufacturer's installation instructions.
- .5 Closeout submittals: submit maintenance and engineering data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

## **PART 2 – PRODUCTS**

### **2.1 SELP PRIMING CENTRIFUGAL PUMP**

- 1. Capacity: as indicated in pump schedule
  - 2. Constructions: Self priming, horizontal centrifugal, all Gray Iron 30 constructions with Buna-N/ 316 stainless steel flap valve and replaceable carbon steel wear plate. Stainless steel shaft, CD4MCU steel shaft sleeve. Impeller bolt, impeller lock washer, impeller washer, spring centering washer all constructed of 316 stainless steel. Shaft seal shall be mechanical, self lubricated. Silicon carbide rotating and stationary faces. Maximum operating temperature of 71°C. Suitable for salt water.
  - 3. Motor: drip-proof, with thermal overload protection. To be connected to pump shaft with adjustable pulley and expanded metal screen, galvanized steel belt guard.
  - 4. Supports: provide as recommended by manufacturer.
  - 5. Acceptable materials: Gorman-Rupp 84B3-B or approved alternate.
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## **2.2 SUMP PUMP**

1. Capacity: as indicated in pump schedule.
2. Construction: simplex CSA approved, housing epoxy coated cast iron or stainless steel, stainless steel shaft, non-clog bronze impeller, mechanical shaft seal, strainer.
3. Motor: hermetically sealed, with automatic overload protection.
4. Control: integral diaphragm type level control buoyant case and switch, plug and cord.

## **PART 3 – EXECUTION**

### **3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheet.

### **3.2 INSTALLATION**

- .1 Make piping and electrical connections to pump and motor assembly and controls as indicated.
- .2 Ensure pump and motor assembly do not support piping.

### **3.3 FIELD QUALITY CONTROL**

- .1 Site Tests/Inspection:
  - .1 Check power supply.
  - .2 Check starter protective devices.
- .2 Start-up, check for proper and safe operation.
- .3 Mount pump skid on concrete pad complete with leveling anchor bolts, grout in base.

### **3.4 START-UP**

- .1 General:
    - .1 Procedures:
      - .1 Check power supply.
      - .2 Check starter O/L heater sizes.
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- .3 Start pump, check impeller rotation.
- .4 Check for safe and proper operation.
- .5 Check settings, operation of operating, limit, safety controls, over-temperature, audible/visual alarms, other protective devices.
- .6 Run-in pump for 12 continuous hours.
- .7 Check installation, operation of mechanical seals, packing gland type seals. Adjust as necessary.
- .8 Adjust alignment of piping and conduit to ensure full flexibility.
- .9 Eliminate causes of cavitation, flashing, air entrainment.
- .10 Measure pressure drop across strainer when clean and with flow rates as finally set.
- .11 Replace seals if pump used to degrease system or if pump used for temporary heat.

### **3.5 PERFORMANCE VERIFICATION (PV) PRESSURE SELF PRIMING PUMPS**

- .1 Obtain manufacturer's approval, before performing PV, to ensure warranties remain intact.
- .2 Application tolerances:
  - .1 Flow: +/- 10%.
  - .2 Pressure: Plus 20%, minus 0%.
- .3 PV procedures:
  - .1 Measure differential pressure (DP) across pump.
  - .2 Measure amperage and voltage and compare with manufacturer's data sheets and motor nameplate data.
  - .3 If suction is different size than discharge connection, add velocity head correction factor to DP.
  - .4 Mark this DP on manufacturer's pump curve.
  - .5 Repeat measurements of amps and volts. Compare with manufacturer's data sheets.
  - .6 Calculate BHP and compare with nameplate data.

### **3.6 REPORTS**

- .1 Include:
  - .1 PV results on approved PV Report Forms.
  - .2 Product Information report forms.
  - .3 Pump performance curves (family of curves) with final point of actual performance.