



## **INVITATION FOR BID**

Dated August 19, 2010  
Reclaimed Water Dispensing Station

**ADDENDUM NO. 1**  
**October 18, 2010**  
**IFB #2010-004-220R**

### **Purpose**

The purpose of the addendum is to extend the bid due date and to advise Offerors of revised Bulkwater Truck Refill System specifications.

### **ACKNOWLEDGEMENT OF RECEIPT OF SUPPLEMENTAL INFORMATION**

Please acknowledge receipt of this Supplemental Information to RFP No. 2009-006-310 by including this acknowledgement on the cover of the sealed container. See example below.

RFP No. 2010-004-100R

Proposals Due Date and Time: Tuesday, October 26, 2010, 3:00 p.m. EST

Reclaimed Water Dispensing Station

Acknowledge Receipt of Supplemental Information

**Extended Proposal Due Date: Tuesday, October 26, 2010**  
**and Time: 3:00 p.m. (eastern time)**

**Mailing Address:** P.O. Box 4000  
Ashburn, VA 20146

**Delivery Address:** 44865 Loudoun Water Way  
Ashburn, VA 20147

**Procurement Contact:** Bessie Nelson, Purchasing Technician  
Phone: 571.291.7948  
Fax: 571.223.2513

## PART 1 - GENERAL

### 1.1 Work Included

1.1.1 This section covers the design, manufacture, supply, installation, testing, and placing in operation the Bulk Water Truckfill access security, and billing system.

### 1.2 Manufacturer

1.2.1 The Bulk Water Truckfill System shall be as supplied by Municipal Solutions Inc., Denver, CO, Ph 1-877-655-5585, or approved equal.

### 1.3 Submittals

1.3.1 The contractor shall submit one (1) hard copy, and one (1) reproducible/electronic copy of shop drawings and information of the proposed system as follows:

1.3.1.1 General arrangement drawing

1.3.1.2 Interconnection drawings

1.3.1.3 Component specification sheets

1.3.1.4 Concrete pad general arrangement drawing for location of necessary penetrations.

1.3.1.5 Installation details

1.3.2 Submit manufacturer's representative report that equipment has been correctly installed, tested successfully and is ready for normal intended operation, within 30 days of the inspection and testing.

1.3.3 Submit four (4) copies of operation and maintenance manuals.

### 1.4 Quality Assurance

1.4.1 Manufacturer – The Bulk Water Truckfill system shall be supplied by one manufacturer that shall assume total responsibility for the parts operating as a whole and shall be manufactured by Municipal Solutions, or approved equal.

1.4.2 Experience – The Bulk Water Truckfill system shall be a standard product of the manufacturer who is actively engaged in the business of providing these systems. Upon request, the manufacturer shall provide the ENGINEER with a list of previous installations.

## PART 2 – PRODUCTS

### 2.1 Access Security System

2.1.1 System shall utilize a 3-digit Customer Access Number and 4-digit Security PIN number to establish user authorization without the need for keys or access cards.

2.1.2 System must integrate with multiple Access Stations to authorize usage by a customer using his same Customer Access number and PIN.

## 2.2 Access Terminal

- 2.2.1 Access terminal shall be complete and functional, ready for field connection to devices, to provide the necessary control of components as specified.
- 2.2.2 Access terminal to be housed in a NEMA 3R enclosure and be complete with 500VA Uninterruptable Power Supply to maintain power to the system in event of power failure, and to protect system against stray currents and voltage spikes.
- 2.2.3 Raven/Airlink 1X wireless data modem to be provided and installed in each Access Terminal for remote communication.
- 2.2.4 Each Access Station must hold up to 250 transactions in the event of Power or Communication Failure.
- 2.2.5 System must provide basic logic control functions to accomplish control sequencing of components as specified in the Control Philosophy.

## 2.3 Billing System

- 2.3.1 System software must accept 50 user definable Carrier Truck accounts
- 2.3.2 System software must allow for software upgrade of extra Carrier Truck accounts
- 2.3.3 System software must maintain information on Truck Carriers (including company name, billing address and billing discount %), Carrier Trucks (including Carrier Truck account number, PIN number, Truck Description, Plate number, Load Capacity, and Driver Name) and account balance.
- 2.3.4 System software must allow User to configure and communicate with multiple Access Terminals located at any number of Bulk Water Truckfill Stations.
- 2.3.5 System software must allow User to automatically upload Carrier Truck account information to each Access Terminal at a Bulk Water Truckfill Station via remote modem.
- 2.3.6 System software must automatically collect all transactions from each Access Terminal / Bulk Water Truckfill Station at a user defined interval.
- 2.3.7 System software must have integrated on-line help screens
- 2.3.8 System software must allow User to define "Volume Units" for bill generation (i.e. m3, ft3, litres, US Gal, Imp Gal)
- 2.3.9 System software must allow User to define billing method either by Volume or by Load and by Discountable Rate based on customer.
- 2.3.10 System software must allow User to manage accounts on either a "Credit" basis or a "Pre-pay/Debit" basis.
- 2.3.11 System software must allow User to print a detailed Carrier Reports.
- 2.3.12 System software must allow User to print a batch of Bills for all or one Carrier
- 2.3.13 System software must allow User to re-print a batch of Bills for all or one Carrier
- 2.3.14 System software must allow User to print statistics of "Fills / Hour, Volume / Hour, Fills / Station"

- 2.3.15 Each Bill shall include detailed information for each transaction with a date stamp, time stamp, quantity, unit factor, unit rate and total.
- 2.3.16 Each Bill shall include transactions for each Carrier: by Carrier Truck, Bulk Water Truckfill Station, Subtotals and Totals.
  
- 2.4 REMOTE TECHNICAL SUPPORT
  - 2.4.1 Manufacturer is to provide the User with one-year free online technical support via remote control software and email.
  
- 2.5 DESCRIPTION OF CONTROL PHILOSOPHY
  - 2.5.1 Upon entering "User ID" and "PIN" by customer, system to provide authorization to User and activate system.
  - 2.5.2 Once authorized, the customer shall enter the volume of water desired, and when ready, press, "Start" to begin the flow of water.
  - 2.5.3 System controls to close drain valve (if so equipped), open a Flow Control Valve (FCV) and/or start Truckfill Pump, to begin the discharge of water.
  - 2.5.4 System must measure the volume of water dispensed by receiving input from a flow meter or other measuring device.
  - 2.5.5 Once the requested volume of water has been dispensed, the FCV and/or pump to close/shutdown, and the drain valve shall open (if so equipped).
  - 2.5.6 FCV to "close" if there is a No-Flow condition for a predetermined time or the access terminal "Stop" button is pressed.
  - 2.5.7 Access Terminal to be able to control number of hoses as detailed on the drawings.
  
- 2.6 System Manufacture
  - 2.6.1 The complete system, Mini General MG-100, shall be composed of a 12 gauge steel kiosk enclosure, fully insulated with 1" rigid Styrofoam, Access Terminal Box, CompactLogix PLC, Field Terminal Box, Electrical Connection Box, 2" Wilkins Series 375 Reduced Pressure Backflow Preventer, 2" Cla-Val Pressure Reducing flow control valve, 2" Badger M3000 Meter, 2" Stainless steel piping, Raven/Airlink wireless modem, normally open 1/2" ASCO solenoid drain valve, piping, piping supports, 500 watt electric heater, necessary access holes for power, drainage, grounding, and other miscellaneous items.
  - 2.6.2 The complete system shall be housed in a powder coated, 12 gauge steel kiosk enclosure and shall be shipped as one complete unit.
  - 2.6.3 The access security and billing software shall be Water+ 100, as manufactured by Municipal Solutions, or approved equal.

## PART 3 – EXECUTION

### 3.1 Product Handling, Storage and Delivery

- 3.1.1 Equipment shall be suitably packaged to avoid damage during handling and shipment.
- 3.1.2 Should it be necessary to store products prior to installation, the CONTRACTOR shall place and store all products in storage areas protected from the elements, and in a manner to protect the equipment from moisture, dust, extreme temperatures, and impact.

### 3.2 Installation

- 3.2.1 The CONTRACTOR shall install the Bulk Water Truckfill System in strict accordance with: (1) the manufacturer's written instructions and recommendations and the manufacturer's installation drawings; (2) the oral and written directions provided by the manufacturer's technical representative; and (3) any additional requirements specified herein.
- 3.2.2 The CONTRACTOR shall take all precautions to ensure that the Access Terminals and other equipment are kept clean and free of any debris, dirt, or other foreign materials, such as iron filings, that may damage the equipment.

### 3.3 Start-up Services

- 3.3.1 The CONTRACTOR shall provide one day of Start up Services by the manufacturer's representative to assist in the adjustment of set-points, and to provide the preliminary set up of the billing software and system controls.
- 3.3.2 On-site training of the hardware and software shall be provided to the OWNER's representatives at the time of the Start-up Services. Instruction shall include day-to-day operations of the controls, preventative and regular maintenance, trouble shooting techniques, and system diagnostics. The OWNER shall make available his representatives that will be responsible for operating and maintaining the system, during completion of the Start-up Services for the familiarization with the equipment and instruction on its operation.