

# BID SOLICITATION



**City of Chattanooga**  
**101 East 11th Street, Suite G13**  
**Chattanooga, TN 37402**

**BID OPENING DATE AND TIME:**  
 21-MAR-17 at 2:00 PM

**BID NUMBER: 304616**

**BUYER:**  
**PHONE #: (423) 643-7230**  
**DELIVERY REQUIRED:**

SEALED BIDS

Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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City of Chattanooga  
 101 East 11th Street, Suite G13  
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
Requisition No.: 149911 Ordering Dept.: Waste Resources Buyer: Geoffrey Hipp 423-643-7233 ***** DESCRIPTION: Four 30" Ball Valve Control Panels per specifications ***** ATTACHMENTS: - Specifications - Iran Divestment Act - Affirmative Action Plan - Standard Terms and Conditions: ( <a href="http://www.chattanooga.gov/purchasing/standard-terms-and-conditions">http://www.chattanooga.gov/purchasing/standard-terms-and-conditions</a> ) ***** *** BIDS MUST BE RECEIVED NO LATER THAN *** ***** 2:00 PM ON MARCH 21, 2017 ***** ***** PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (304616) ON OUTSIDE PACKAGING ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION, FREIGHT ALLOWED. ***** NOTE: All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated. The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city. The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin. ***** PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION: Company Name _____ Address _____ Phone/Toll-Free No. _____ Fax No. _____ E-Mail Address _____ Contact Person's Name _____ Estimated Delivery _____ Minority-Owned Business ___ Small Business ___ Veteran ___ Minority Woman Owned Business ___ Disabled Veteran ___ Women-Owned Business ___					

**NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS**

ALL BIDS MUST BE SIGNED – The undersigned offers the above quoted prices under the conditions contained herein.

The City is Exempt from all Federal and State Tax.  
 Bids will be received at the above mentioned address.

TERMS OF PAYMENT: \_\_\_\_\_  
 TELEPHONE NUMBER: \_\_\_\_\_

COMPANY: \_\_\_\_\_  
 SIGNATURE: \_\_\_\_\_  
 NAME AND TITLE: \_\_\_\_\_

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**VENDOR**

RFQ

**MAIL TO**

City of Chattanooga  
 101 East 11th Street, Suite G13  
 Chattanooga, TN 37402

Item	Class-Item	Quantity	Unit	Unit Price	Total
1	30" Ball Valve Control Panels, per attached Specs	4	Each	_____	_____

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TELEPHONE NUMBER: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME AND TITLE: \_\_\_\_\_

**SPECIFICATIONS FOR  
FOUR (4) PUMP CHECK CONTROL PANELS FOR CITICO  
WASTEWATER PUMP STATION  
CHATTANOOGA TENNESSEE  
February, 2017**

**GENERAL INFORMATION**

This specification is for the purchase of four (4) Henry Pratt Check Mate Pump Check Controls. The controls are for use at the City of Chattanooga's Citico Pump Station located at 1004 Riverside Drive. The station is a custom built station built in 1999.

The Citico station has four (4) horizontal centrifugal dry pit type pumps with a capacity of 27,500 gpm at 50 feet of head. Motors 2 and 3 are GE motors. Motors 1 and 4 are Siemens. The motors are 450 horsepower at 511 rpm and 704 amps. The station has Pratt 30 inch ball valves which are hydraulically controlled. The Pratt control panels are being replaced.

The four new control panels shall be diagnostic Electro Check Nema 4X stainless steel enclosures (pump check and electro-check) with stainless steel legs. The panels shall be equipped with local/Auto switch and open/close switch.

The panels must be an exact fit and replacement of the existing panels to enable installation without having to make modifications.

The City will install the panels.

This specification describes the unit that is needed. The City is interested in purchasing a replacement control panel that will be a form fit function replacement that mechanically, will fit the existing piping and electrical supply.

Each Panel shall be an Electro Pump Check Panel for Pratt 30" 150# DS Ball Valve MDT5 14X11 Cylinder. No substitutions.

All panels shall be Stainless Nema 4X panels. The vendor shall supply the electromagnetic filters on the control relays.

The vendor shall supply start-up service and on-site training of City personnel upon the completion of installation by the City of the first unit. The control panels shall be changed out one at a time by the city. After the last three panels are installed the vendor shall make a second trip to the site to ensure that all four panels are installed and operating correctly.

All equipment shall meet AWWA standards, as applicable.

Components made in Iran are not allowed.

The vendor is not responsible for:

- a. Flange nuts, bolts, gaskets, anchor, mounting bolts, Victaulic couplings, mechanical joint, accessories, spool pieces, thimbles or non-standard tags.
- b. Extension stems, soil pipe, valve boxes, covers, or "tee" wrenches.
- c. Spare parts.
- d. Interconnecting piping or wiring.
- e. Hydraulic oil for cylinder operators and/or accumulator systems.

## DETAILED SPECIFICATIONS

The control system for the pump check valve shall provide the following functions:

1. Independent adjustable rates of valve opening and closing operations.
2. Independent adjustable emergency closure rate resulting from an electric power failure or other operational signal eliminating power to the system.

The system shall be provided with **four** single solenoid 2-way valves for the normal open and close function. Two solenoid operated two-way valves shall be provided for emergency closure, completely bypassing the entire normal open/close hydraulic circuit. Separate adjustable speed control valves shall be furnished for open, close and emergency operation. The system shall be provided with a Hand/Off/Auto selector switch, located on the door of the electrical control unit, to override the normal open and close function.

The required speeds of operation shall be as follows:

Normal open – 60 seconds minimum  
300 seconds maximum

Normal close - 60 seconds minimum  
300 seconds maximum

Emergency close – 10 seconds minimum  
20 seconds maximum

The control system shall be fully piped, using a minimum pipe diameter of 1" and fully wired, all contained within a NEMA 4X 304 SS cabinet with a continuous hinged access door. All fittings and tubing shall be brass and copper. Electrical wiring shall terminate in a separate NEMA 4X junction box within the control cabinet.

The pump check valve should be furnished with three limit switches. One each for the full open or full close positions, and the third switch shall provide momentary interruption of the pump motor control to initiate pump shutdown prior to 100% valve closure to minimize hydraulic surge.

The pump check system shall be the Check-Mate systems as manufactured by the Henry Pratt Company or equal.

In addition to the pump check valve hydraulic controls, an electric control unit shall be supplied containing all necessary relays, timers, pressure switches, buttons and lights to interface with the pump controls and the pump check valve control system. The NEMA 4X SS panel shall be direct mounted to the Check-Mate pump check control panel and provide for:

1. Visual indication of valve position with red and green indicating lights.
2. Visual indication of alarm conditions with amber flashing light.
3. Emergency shutdown of pump and valve by an external button.
4. Pump system lockout after an alarm condition. System to be started again only after the reset button is pressed.

The alarm function of the panel shall include an adjustable solid state timing relay, lockout relay, flashing light and reset button. The controls shall be housed in a continuous hinged NEMA 4X cabinet, as stated above. Each alarm relay shall have a set of contacts wired to the terminal strip for remote indication.

The entire Check-Mate and pump control unit shall be specifically designed for this unique application and pump operating system.

## **SHIPPING AND DELIVERY**

Vendor shall state delivery time in his bid and shall include all shipping costs. Panels shall be delivered to Moccasin Bend wastewater Treatment Plant, 455 Moccasin Bend Road, Chattanooga Tennessee 37405.

## **WARRANTY**

The manufacturer of the equipment shall warranty for one (1) year from date of purchase that the equipment will be free from defects in design, material and workmanship.

Chapter No. 817 (HB0261/SB0377). "Iran Divestment Act" enacted.  
Vendor Disclosure and Acknowledgement

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.

(SIGNED) \_\_\_\_\_

(PRINTED NAME) \_\_\_\_\_

(BUSINESS NAME) \_\_\_\_\_

(DATE) \_\_\_\_\_

For further information, please see website:

[https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List\\_of\\_persons\\_pursuant\\_to\\_Tenn.\\_Code\\_Ann.\\_12-12-106,\\_Iran\\_Divestment\\_Act-July.pdf](https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf)

## Affirmative Action Plan

The City of Chattanooga is an equal opportunity employer and during the performance of this Contract, the Contractor agrees to abide by the equal opportunity goals of the City of Chattanooga as follows:

1. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, national origin, or handicap. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, national origin, or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this nondiscrimination clause.
2. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, or handicap.
3. The Contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice advising said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
4. During the term of all construction contracts or subcontracts in excess of \$10,000 to be performed for the City of Chattanooga, the following non-discriminatory hiring practices shall be employed to provide employment opportunities for minorities and women:
  - a. All help wanted ads placed in newspapers or other publications shall contain the phrase "Equal Employment Opportunity Employer".
  - b. Seek and maintain contracts with minority groups and human relations organizations as available.
  - c. Encourage present employees to refer qualified minority group and female applicants for employment opportunities.
  - d. Use only recruitment sources which state in writing that they practice equal opportunity. Advise all recruitment sources that qualified minority group members and women will be sought for consideration for all positions when vacancies occur.

5. Minority statistics are subject to audit by City of Chattanooga staff or other governmental agency.
6. The Contractor agrees to notify the City of Chattanooga of any claim or investigation by State or Federal agencies as to discrimination.

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(Signature of Contractor)

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(Title and Name of Company)

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(Date)