

BID SOLICITATION



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

BID OPENING DATE AND TIME:
 23-DEC-15 at 2:00 PM

BID NUMBER: 304031

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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Item	Class-Item	Quantity	Unit	Unit Price	Total
Requisition No.: 127606 Ordering Dept.: Waste Resources Buyer: Geoffrey Hipp 423-643-7233 ***** DESCRIPTION: Electric Motor per specifications ***** ATTACHMENTS: - Specifications - Affirmative Action Plan - Standard Terms and Conditions: (http://www.chattanooga.gov/purchasing/standard-terms-and-conditions) ***** *** BIDS MUST BE RECEIVED NO LATER THAN *** ***** 2:00 PM ON DECEMBER 23, 2015 ***** ***** PLEASE SUBMIT BIDS IN DUPLICATE INDICATING BID NUMBER (304031) 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

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

TERMS OF PAYMENT: _____

TELEPHONE NUMBER: _____

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

COMPANY: _____

SIGNATURE: _____

NAME AND TITLE: _____

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Item	Class-Item	Quantity	Unit	Unit Price	Total
1	Electric Motor - 600 HP, 10 Pole, 480V, 3 Ph, 60 Hz, Fr. 450, Model ANCD, Teco - Westinghouse, per attached Specifications.	1	Each	_____	_____

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**SPECIFICATIONS FOR
ELECTRIC MOTOR FOR SOUTH CHICKAMAUGA
WASTEWATER PUMP STATION
CHATTANOOGA TENNESSEE
November 2015**

GENERAL INFORMATION

This specification is for the purchase of one (1) electric motor for use at the City of Chattanooga's South Chickamauga Pump Station located at 400 North Hawthorne Street. See attached data sheet for motor specifications. The station is a custom built station built in 1978 and upgraded in 1995.

The station has 4 pumps made by Fairbanks Morse. The pumps are horizontal centrifugal dry pit type with a capacity of 24,000 gpm at 92 feet of head. The motors are 600 horsepower at 712 rpm and 704 amps.

The motor will be a spare motor and will need to be an exact fit able to be moved to any of the four locations without having to make modifications. No substitutions.

This specification describes the unit that is needed. The existing motors were manufactured by TECO-Westinghouse Motor Company. The City is interested in purchasing a replacement motor that will be a form fit function replacement motor of shop order number FD4B339A1 that mechanically, will fit the existing foundation. The motor foot print, shaft height, shaft extension [size, length and keyway] will match exactly. The main lead box and aux box shall be on the left side of the motor facing the shaft.

The motor shall be designed for the specified application and all performance parameters of the original machine will be reasonably matched. Original motor design targets will not be compromised. Inrush current, temperature rise, starting duty, etc, may be different, but will not exceed the limits imposed by the original contract.

The motor shall be a 600hp/720rpm/480V/450/WPII
TWMCSO FD4B339A1

- 1) Motor will be a replacement for the above referenced shop order. Accessory items will be per the original order, updated to current standards, except soleplates, shims and mounting of half coupling, where applicable.
- 2) The bid price shall include Standard Commercial testing and startup services

SHIPPING AND DELIVERY

Vendor shall state delivery time in his bid and shall include all shipping costs.

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.

SPECIFICATION TABLE OF 3-PHASE SQUIRREL CAGE INDUCTION MOTOR	CUSTOMER		USER	
	INQ. NO.		EQUIPMENT	
	JOB NO.		MACHINE	
	TOTAL SETS		ITEM NO.	

Item	Terms	Description				
1	Model	ANCD				
2	Code or Standard	Dimensions	Frame Assignment	Performance	Test	
		IEC	TWMC	NEMA	NEMA	
3	Rating	600 HP 10 Pole 480 Volt 3 Phase 60 Hz				
4	Service Duty	Continuous Rating, S.F. 1.15				
5	Starting Method	D.O.L.				
6	Rotation	Facing The Drive End : CCW, Available for BI-Direction				
7	Drive Method	Direct Coupling				
8	Environment	Amb. Temp. : -10 ~ 40 °C				
		Humidity : Less Than 95 %RH				
		Altitude : Up to 1000 M				
9	Enclosure & Protection	WP11 : NEMA Weather Protected Type II		Outdoor		
10	Cooling	IC01 : Self Ventilated Interior Cooling				
11	Mounting	IM1001 : HS, Foot				
12	Dimensions	Dr# 1TF1500426-01A/00		Frame No : 450		
13	Frame & Bracket	Frame : Steel Plate		Bracket : Cast Iron		
14	Fan & Fan Cover	Fan :--		Fan Cover :--		
15	Terminal Box	Steel Plate				
16	Lead Terminals	-				
17	Lubricant	Shell Gadus S2 V100 3				
18	Painting	Color : MUNSELL 7.5B 3.5/0.5				
19	Stator Winding	Ins. Class F				
20	Rotor Conductor	Cu-Alloy				
21	Starting Performance	LRC 4040 Amp		LRT/FLT 85 %		
22	Operating Performance	Hz/V	60/480			Break Down Torque 190 %FLT
		%Load	100	75	50	
		Amp.	734	578	444	Temp. Rise Limit. (Res.) Stator 80 °C at S.F.1.15
		Eff.%	94.7	95.0	94.8	
		P.F.%	77.5	73.5	64.0	
		R.P.M.	712	714	716	
23	Approximate Weight					
24	Note	1.With Space Heater : 1φ 240V 300W 2.With Winding RTD : PT 100Ω/0 °C 6pcs 3.With Bearing RTD : PT 100Ω/0 °C 2pcs 4.With Vibration Switch : VT1215 2pcs				

APPD.			TECO  Westinghouse	DWG NO.
CHKD.				REV.00
DWN.				1/1

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.

(Signature of Contractor)

(Title and Name of Company)

(Date)