



City of Fayetteville, Arkansas

113 West Mountain Street
Fayetteville, AR 72701
479-575-8323 TDD - 479-
521-1316

Legislation Text

File #: 2014-0551, Version: 1

A RESOLUTION TO AWARD BID #14-64 TO EVANS ENTERPRISES, INC. TO REBUILD FOUR (4) MOTORS AND TO PURCHASE FOUR (4) VARIABLE FREQUENCY DRIVES AND LOAD REACTORS FOR THE NOLAND WASTEWATER TREATMENT PLANT IN THE AMOUNT OF \$42,341.74 PLUS APPLICABLE TAXES

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF FAYETTEVILLE, ARKANSAS:

Section 1. That the City Council of the City of Fayetteville, Arkansas hereby awards Bid #14-64 to Evans Enterprises, Inc. to rebuild four (4) motors and to purchase four (4) variable frequency drives and load reactors for the Noland Wastewater Treatment Plant in the amount of \$42,341.74 plus applicable taxes.

City of Fayetteville Staff Review Form

2014-0551

Legistar File ID

12/16/2014

City Council Meeting Date - Agenda Item Only
N/A for Non-Agenda Item

Billy Ammons

11/24/2014

Wastewater Treatment Plant /
Utilities Department

Submitted By

Submitted Date

Division / Department

Action Recommendation:

Staff recommends approval of Bid 14-64 with Evans Enterprises, Inc. to rebuild four (4) motors and to purchase four (4) variable frequency drives and load reactors for the Noland WWTP for \$42,341.74 plus \$4,128.32 tax, totaling \$46,470.06.

Budget Impact:

5400.5800.5801.00, 5400.5800.5414.00

Water/Sewer

Account Number

Fund

02069.1

Plants Pumps and Equipment - WWTP

Project Number

Project Title

Budgeted Item? Yes

Current Budget \$ 267,206.00

Funds Obligated \$ 81,042.00

Current Balance **\$ 186,164.00**

Does item have a cost? Yes

Item Cost \$ 46,470.06

Budget Adjustment Attached? No

Budget Adjustment \$ -

Remaining Budget **\$ 139,693.94**

V20140710

Previous Ordinance or Resolution # _____

Original Contract Number: _____

Approval Date: _____

Comments:

MEETING OF DECEMBER 16, 2014

TO: Mayor and Fayetteville City Council

THRU: Don Marr, Chief of Staff
 Water & Sewer Committee
 Tim Nyander, Interim Utility Director

FROM: Billy Ammons, Wastewater Treatment

DATE: November 24, 2014

SUBJECT: Approval of Bid 14-64 with Evans Enterprises, Inc. to rebuild four (4) motors and to purchase four (4) variable frequency drives (VFDs) and load reactors for the Noland Wastewater Treatment Plant (WWTP) for \$46,470.06.

RECOMMENDATION:

Fayetteville Staff recommends approval of Bid 14-64 with Evans Enterprises, Inc. to rebuild four (4) motors and to purchase four (4) VFDs and load reactors for the Noland WWTP for \$42,341.74 plus \$4,128.32 tax, totaling \$46,470.06.

BACKGROUND:

The Noland WWTP uses a biological nutrient removal system to treat the City's wastewater. Each of the two basins uses a series of six mixers and eight large mechanical aerators to provide the mixing and necessary oxygen for the microorganisms to treat the wastewater. The existing motors and control centers (circa 1988) are worn out, frequently in need of repair, and have exceeded their life expectancy. Rebuilding these motors is significantly more cost effective than replacing them with new units. Installing VFDs to replace the outdated electrical contactors enhances the biological treatment process and is more sustainable. As they adapt to the constantly changing influent loading, VFDs increase or decrease motor speeds to supply the appropriate level of oxygen thus minimizing excess electrical use.

DISCUSSION:

The City received one bid on November 19, 2014 to rebuild four (4) aerator motors, purchase four (4) VFDs and load reactors. Evans Enterprises, Inc. submitted the only bid and it meets specifications.

Bidder	Bid
Evans Enterprises, Inc.	\$42,341.74

BUDGET/STAFF IMPACT:

Funds are available in the Wastewater Treatment Plant CIP – Plant Pumps and Equipment.

ATTACHMENTS:

- Staff Review Form
- Purchase Order
- Bid 14-64 Tabulation
- Bid Submittals

City of Fayetteville - Purchase Order Request (PO)
(Not a Purchase Order)
All PO Requests shall be scanned to the Purchasing e-mail: Purchasing@fayetteville-ar.gov.
Purchase shall not be made until an actual PO has been issued.

Requisition No.: _____ Date: **11/24/2014**
P.O Number: _____

Vendor #: **4090** Vendor Name: **Evans Enterprises, Inc.**

Mail Yes No **Legistar#: 2014-0551**

Address: **2001 N 13th St** FOB Point: **Noland WWTP**

Taxable Yes No **Expected Delivery Date:**

City: **Rogers** State: **AR** Zip Code: **72756** Ship to code: **72701**

Quotes Attached Yes No

Requester: **Billy Ammons** Requester's Employee #: **OMI**

Extension: **479-443-3292**

Item	Description	Quantity	Unit of Issue	Unit Cost	Extended Cost	Account Number	Project.Sub#	Inventory #	Fixed Asset #
1	Per Bid#14-64 Rebuild and rewind Baldor Reliance 100 HP, 1200 RPM, 480 V, 3 Phase, 124 Amp, 445T Frame, TEFC, F1 mounting motor.	2	EA	6,731.55	\$13,463.10	5400.5800.5414.00	02069.1		
2	Rebuild and rewind Baldor Reliance, 50 HP, 1200 RPM, 480 volt, 3 phase, 66 Amp, 405T frame, TEFC, F2 mounting motor.	2	EA	4,461.70	\$8,923.40	5400.5800.5414.00	02069.1		
3	Variable Frequency Drive, make ABB model ACS550-U1-157A-4 Asset #6298	1	EA	6,216.00	\$6,216.00	5400.5800.5801.00	02069.1		#6298
4	Variable Frequency Drive, make ABB model ACS550-U1-097A-4	3	EA	3,433.08	\$10,299.24	5400.5800.5414.00	02069.1		
5	Load bank reactor, make Baldor model LRAC130ACB2	2	EA	860.00	\$1,720.00	5400.5800.5414.00	02069.1		
6	Load bank reactor, make Baldor model LRAC08002	2	EA	860.00	\$1,720.00	5400.5800.5414.00	02069.1		
7					\$0.00				
8					\$0.00				
9					\$0.00				
10					\$0.00				
*	Shipping/Handling		Lot		\$0.00				

Special Instructions: _____

Subtotal: **\$42,341.74**
Tax: **\$4,128.32**
Total: **\$46,470.06**

Approvals: _____
Mayor: _____ Department Director: _____ Purchasing Manager: _____

Chief Financial Officer: _____

Budget Director: _____

IT Director: _____

Dispatch Manager: _____

Utilities Manager: _____

Other: _____



City of Fayetteville, Arkansas
Purchasing Division

OFFICIAL BID TABULATION
Bid 14-64, WWTP Motor Rebuilds & New Equipment
Wednesday, November 19, 2014 at 2:00 PM

					Evans Enterprises, Inc.	
SECTION A: Motor Rebuild						
Item	DESCRIPTION	QTY		PRICE EACH		EXTENDED PRICE
1	Rebuild and Rewind Baldor Reliance 100 HP, 1200 RPM, 480 V, 3 Phase, 124 Amp, 445T Frame, TEFC, F1 mounting motor.	2	x	\$ 6,731.55	=	\$ 13,463.10
2	Rebuild and rewind Baldor Reliance, 50 HP, 1200 RPM, 480 volt, 3 phase, 66 Amp, 405T frame, TEFC, F2 mounting Motor	2	x	\$ 4,461.70	=	\$ 8,923.40
TOTAL BID SECTION A						\$ 22,386.50
SECTION B: New Equipment						
3	ABB Model ACS550-U1-157A-4 or Equal Variable Frequency Drive	1	x	\$ 6,216.00	=	\$ 6,216.00
4	ABB Model ACS550-U1-097A-4 or Equal Variable Frequency Drive	3	x	\$ 3,433.08	=	\$ 10,299.24
5	Model LRAC130ACB2 or Equal Load Reactor	2	x	\$ 860.00	=	\$ 1,720.00
6	Model LRAC08002 or Equal Load Reactor	2	x	\$ 860.00	=	\$ 1,720.00
TOTAL BID SECTION B						\$ 19,955.24
TOTAL BASE BID (SECTION A + B)						\$ 42,341.74

P. Vice
P. Vice, Purchasing Manager

A. Fourn
Witness

11/19/14
Date

CITY OF



City of Fayetteville, Arkansas
Purchasing Division – Room 306
113 W. Mountain St.
Fayetteville, AR 72701
Phone: 479.575.8220
TDD (Telecommunication Device for the Deaf): 479.521.1316

INVITATION TO BID

INVITATION TO BID: Bid 14-64, WWTP Motor Rebuilds & New Equipment
DEADLINE: Wednesday, November 19, 2014 before 2:00 PM, Local Time
DELIVERY LOCATION: Room 306 – 113 W. Mountain, Fayetteville, AR 72701
PURCHASING AGENT: Andrea Foren, CPPO, CPPB, aforen@fayetteville-ar.gov
DATE OF ISSUE AND ADVERTISEMENT: Monday, October 27, 2014

INVITATION TO BID
Bid 14-64, WWTP Motor Rebuilds & New Equipment

No late bids will be accepted. Bids shall be submitted in sealed envelopes labeled with the name and address of the bidder.

All bids shall be submitted in accordance with the attached City of Fayetteville specifications and bid documents attached hereto. Each bidder is required to fill in every blank and shall supply all information requested; failure to do so may be used as basis of rejection.

The undersigned hereby offers to furnish & deliver the articles or services as specified, at the prices & terms stated herein, and in strict accordance with the specifications and general conditions of bidding, all of which are made a part of this offer. This offer is not subject to withdrawal unless upon mutual written agreement by the Proposer/Bidder and City Purchasing Manager.

Name of Firm: Evans Enterprises, Inc.
Contact Person: David Stewart Title: Plant Manager.
E-Mail: dkS@goevans.com Phone: 479-636-0721
Business Address: 2001 North 13th Street.
City: Rogers State: AR Zip: 72756
Signature: Date: 11-18-14

City of Fayetteville
 Bid 14-64, WWTP Motor Rebuilds & New Equipment
 Bid Form

DATE REQUIRED: Rebuild shall be completed within 90 days of purchase order being issued and new parts shall be delivered within 90 days of purchase order being issued

F.O.B. Noland Wastewater Treatment Plant, 1400 N. Fox Hunter Rd., Fayetteville, AR 72701

City of Fayetteville, Arkansas					
Bid 14-64, WWTP Motor Rebuild & New Equipment					
Bid #	Date Issued:	Date and Time Of Bid Opening:			
14-64	Monday, October 27, 2014	Tuesday, November 18, 2014 before 2:00 PM, local time - Room 306			
SECTION A: Motor Rebuild					
Item	DESCRIPTION	QTY	PRICE EACH	EXTENDED PRICE	
1	Rebuild and Rewind Baldor Reliance 100 HP, 1200 RPM, 480 V, 3 Phase, 124 Amp, 445T Frame, TEFC, F1 mounting motor.	1	x \$ 6731.55	= \$	6731.55
2	Rebuild and rewind Baldor Reliance, 50 HP, 1200 RPM, 480 volt, 3 phase, 66 Amp, 405T frame, TEFC, F2 mounting Motor	2	x \$ 4461.70	= \$	8923.40
TOTAL BID SECTION A					\$ 15,654.95
SECTION B: New Equipment					
3	ABB Model ACS550-U1-157A-4 or Equal Variable Frequency Drive	3	x \$ 6216. ⁰⁰	= \$	18,648. ⁰⁰
4	ABB Model ACS550-U1-097A-4 or Equal Variable Frequency Drive	3	x \$ 3433.08	= \$	10,299.24
5	Model LRAC130ACB2 or Equal Load Reactor	2	x \$ 860. ⁰⁰	= \$	1720. ⁰⁰
6	Model LRAC08002 or Equal Load Reactor	2	x \$ 860. ⁰⁰	= \$	1720. ⁰⁰
TOTAL BID SECTION B					\$ 32,387.24
TOTAL BASE BID (SECTION A + B)					\$ 48,042.19

Bids shall be submitted on this bid form in its entirety AND accompanied by descriptive literature on the products being bid. The City intends on awarding this bid to a single vendor.

The City of Fayetteville shall be responsible for the removal of the old motors, the installation of motors after rebuild and rewind, and the installation of the variable frequency drives and load reactors. Bidder shall be responsible for motor pickup prior to rebuild services and the delivery of motors after rebuild services are complete.

BID FORM CONTINUES ON NEXT PAGE

EXECUTION OF BID -

Actual specification of any deficient item shall be noted on the bid sheet or separate attachment. If specifications of item bid differ from provided literature, deviation shall be documented and certified by the manufacturer as a regular production option.

Upon signing this Bid, the bidder certifies that:

1. He/she has read and agrees to the requirements set forth in this proposal, including specifications, terms, standard conditions, and any pertinent information regarding the articles being bid on.
2. Unless otherwise noted and explained, the unit bid and listed meets or exceeds all of these requirements as specified by The City of Fayetteville.
3. The Bidder can and will comply with all specifications and requirements for delivery, documentation and support as specified herein.
4. I, as an officer of this organization, or per the attached letter of authorization, am duly authorized to certify the information provided herein is accurate and true.
5. Bidder shall comply with all State and Federal Equal Opportunity and Non-Discrimination requirements and conditions of employment in addition to all federal, state, and local laws.
6. Bidder shall disclose any possible conflict of interest with the City of Fayetteville, including, but not limited to, any relationship with any City of Fayetteville employee. Response shall disclose if a known relationship exists between any principal or employee of your firm and any City of Fayetteville employee or elected City of Fayetteville official. If no relationship exists, this should also be stated in your response. Failure to disclose such a relationship may result in cancellation of a purchase and/or contract as a result of your response.

1.) NO KNOWN RELATIONSHIP EXISTS

2.) RELATIONSHIP EXISTS (Please explain): _____

7. Bidder will perform the Work in compliance with all applicable trench safety standards set forth in Occupational Safety and Health Administration (OSHA) Part 1926 – Subpart P – Excavations.
8. As A bidder on this project, you are required to provide debarment/suspension certification indicating that you are in compliance with the below Federal Executive Order. Certification can be done by completing and signing this form.
 - a. Federal Executive Order (E.O.) 12549 “Debarment and Suspension” requires that all contractors receiving individual awards, using federal funds, and all sub-recipients certify that the organization and its principals are not debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or agency from doing business with the Federal Government.
 - b. Your signature below certifies that neither you nor your principal is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

Unsigned bids will be rejected. Items marked * are mandatory for consideration.

*NAME OF FIRM: Evans Enterprises, Inc.
Purchase Order/Payments shall be issued to this name

*D/B/A or Corporation Name _____

*BUSINESS ADDRESS: 2001 North 13th Street.

*CITY: Rogers *STATE: AR *ZIP: 72756

*PHONE: 479-636-0721 FAX: 479-636-8198

*E-MAIL: DKSTOG@goevans.com.

*BY: (PRINTED NAME) David Stewart

*AUTHORIZED SIGNATURE: *David Stewart*

*TITLE: Plant Manager

*DUNS NUMBER: 00-720-7517. CAGE NUMBER: _____

*TAX ID NUMBER: 73-0928881

Acknowledge Addendums:

- Addendum No. 1 Dated: 10/28/14 Acknowledged by: *John Marshall*
- Addendum No. 2 Dated: 11/4/14 Acknowledged by: *John Marshall*
- Addendum No. 3 Dated: 11/4/14 Acknowledged by: *John Marshall*
- 4 11/17/14 *John Marshall*

inverter duty with the following specifications and requirements:

- a. Disassemble motor and stem clean all parts
- b. Rewind stator with Class H winding insulation and inverter duty spike resistant wire
- c. Vacuum pressure impregnation to assist resin (Dolph's CC-1105 or equal) penetration and bake windings. If bidding resin other than Dolph's CC-1105, please indicate resin type here: _____
- d. Over dip with Dolph's BC-352 resin or equal and bake the windings. If bidding resin other than Dolph's BC-352, please indicate resin type here: _____
- e. Modify and properly set the internal rotor shaft tolerance to accommodate new AEGIS shaft grounding ring
- f. Dynamic balancing of rotor
- g. Install new bearings and bearing housings
- h. Install new AEGIS shaft grounding ring and two new v-rings
- i. Assemble and test motor, including vibration testing.
- j. Motor shall be painted the same color as existing unit.

3.3 **LINE ITEM A2:** Rebuild and Rewind two Baldor Reliance, 50 Horsepower, 1200 RPM, 480 Volt, 3 Phase, 66 Amp, 405T Frame, TEFC, F2 mounting motors

3.4 The rebuild and rewind service shall convert the existing two speed motor to a single speed inverter duty with the following specifications and requirements:

- a. Disassemble motor and steam clean all parts
- b. Rewind stator with Class H winding insulation and inverter duty spike resistant wire
- c. Vacuum pressure impregnation to assist resin (Dolph's CC-1105 or equal) penetration and bake windings. If bidding resin other than Dolph's CC-1105, please indicate resin type here: _____
- d. Over dip with Dolph's BC-352 resin or equal and bake the windings. If bidding resin other than Dolph's BC-352, please indicate resin type here: _____
- e. Modify and properly set the internal rotor shaft tolerance to accommodate new AEGIS shaft grounding ring
- f. Dynamic balancing of rotor
- g. Install new bearings and bearing housings
- h. Install new AEGIS shaft grounding ring and two new v-rings
- i. Assemble and test motor, including vibration testing.
- j. Motors shall be painted with industrial strength enamel and shall match the existing Machine Dark Grey color with an eggshell finish. Paint color and finish shall be field verified.

4. TECHNICAL SPECIFICATIONS – SECTION B

4.1 **LINE ITEM B3:** Variable Frequency Drive – Quantity: 1 (one)

- a. ABB Model ACS550-U1-157A-4 or approved equal. If bidding model different than specified, please notate manufacturer/model here: _____
- b. 480 VAC Input Voltage

- c. 3-Phase
- d. Wall mount construction
- e. NEMA 1 UL Type 1 Enclosure
- f. Power Rating:
 - Normal Duty: 75 horsepower
 - Heavy Duty: 60 horsepower
- g. Amperage Rating:
 - Normal Duty: 97 amps
 - Heavy Duty: 77 amps
- h. R4 Frame size
- i. Modbus RTU communication

4.2 **LINE ITEM B4:** Variable Frequency Drives – Quantity: 3 (three)

- a. ABB Model ACS550-U1-097A-4 or approved equal. If bidding model different than specified, please notate manufacturer/model here: _____
- b. 480 VAC Input Voltage
- c. 3-Phase
- d. Wall mount construction
- e. NEMA 1 UL Type 1 enclosure
- f. Power Rating:
 - Normal Duty: 75 horsepower
 - Heavy Duty: 60 horsepower
- g. Amperage Rating:
 - Normal Duty: 97 amps
 - Heavy Duty: 77 amps
- h. R4 Frame size
- i. Modbus RTU communication

4.3 **LINE ITEM B5:** Load Reactor – Quantity: 2 (two)

- a. Baldor load reactor model LRAC130ACB2 or approved equal. If bidding model different than specified, please notate manufacturer/model here: _____
- b. 480 volt input
- c. 130A input current
- d. Frequency: 60 Hertz
- e. Impedance: 3%
- f. Inductance: 0.17mH
- g. Bus Bar Terminal
- h. Baldor Enclosure model LRENC-15 or approved equal. If bidding different than specified, please notate manufacturer/model here: _____

4.4 **LINE ITEM B6:** Load Reactor – Quantity: 2 (Two)

- a. Baldor load reactor model LRAC08002 or approved equal. . If bidding model different than specified, please notate manufacturer/model here: _____
- b. 480 volt input

- c. 80A input current
- d. Frequency: 60 Hertz
- e. Impedance: 3%
- f. Inductance: 0.4mH
- g. Screw Terminal
- h. Baldor Enclosure model LRENC-13 or approved equal. If bidding different than specified, please notate manufacturer/model here: _____

5. WARRANTY –

5.1 Warranty shall include the following at minimum. Bidder shall serve as the warranty administrator.

- a. All new equipment bid shall be warranted for a minimum of one year from the date of acceptance by the City or the manufacturer's standard warranty, whichever is **greater**.
- b. Warranty for the rebuilt motors shall be for a minimum of one year from the date of acceptance by the City or the manufacturer's standard warranty, whichever is **greater**.
- c. Warranty for both shall include all parts, labor, and transportation to and from the location of the warranty administrator.

6. STANDARDS –

6.1 Each unit shall meet or exceed the following applicable standards.

- a. Occupational Safety and Health Administration Standards (OSHA).

7. DELIVERY/DOCUMENTATION -

7.1 Equipment supplied under this specification shall remain the property of the Supplier until delivery to and acceptance by the City of Fayetteville. Deliveries for the equipment will only be accepted during normal business hours between 7:30 AM and 3:30 PM, local time, Monday through Friday, Federal holidays excluded.

7.2 All units shall be delivered FOB to the Noland Waste Water Treatment Plant located at 1400 North Fox Hunter Road, Fayetteville, AR 72701.

7.3 Delivery shall include the following documents as a minimum:

- a. Manufacturer's Certificate of Origin, if available
- b. Dealer invoice

7.4 Unit shall be fully assembled, serviced, and ready for operation as delivered.

7.5 Physical installation of the motors, variable frequency drives and load reactors shall be the responsibility of the City of Fayetteville.

7.6 All bids shall include the following submittal information:

- a. A certification of the warranty and statement of extended warranty, if any

- b. A detailed list of items to be supplied under the bid
- c. A detailed set of installation instructions include a contact name and phone number for technical support during the installation

8. MANUALS -

8.1 The successful bidder agrees to furnish the following list of manuals:

- a. Variable Frequency Drive Manual: One (1) file copy **PLUS** one (1) copy for each unit purchased.
- b. Load Reactor Manual: One (1) file copy PLUS one (1) copy for each unit purchased.

8.2 Payment(s) may be held until all manuals and certifications are delivered to the City of Fayetteville.

9. TRAINING:

9.1 Training described herein shall be arranged through Wastewater Operations for both operators and mechanics by a qualified instructor at a location designated and provided by the City.

- a. Operator Training (Required): Shall include proper operating techniques and daily maintenance including lubrication, inspection of fluid checks and adjustments. This training shall be designed to instruct qualified machinery operators.
- b. Limited Maintenance Training (Required): Shall be designed to instruct qualified mechanics in techniques and procedures that are new and unique to the new unit model supplied. Training shall consist of the following: basic servicing and lubrication procedures, diagnostics, disassembly, repair and assembly of components. Training shall consist of a classroom situation utilizing audiovisual aids where possible.

10. SUPPORT SERVICES –

10.1 Repair Parts Inventory – stock of standard repair parts for units bid must be available to the City within 24 hours of part(s) request. Parts inventory availability shall be considered in the purchasing decision.

10.2 Maintenance Service – Fully trained maintenance personnel shall be available for service within 24 hours of repair requests. This shall include warranty service. Availability of maintenance personnel shall be considered in the purchasing decision.