

**CITY OF LINCOLN
COUNTY OF LANCASTER**

QUOTATION REQUEST

Vince M. Mejer, CPPO, C.P.M.
Purchasing Agent

Quote Prices F.O.B. Destination
Lincoln, Nebraska

(402) 441-7410 Fax: (402) 441-6512

Date - 5/17/04
Order No. - 1522 OQ
Date Due - 05/28/04

**QUOTATIONS MUST BE RECEIVED IN
THE PURCHASING DIVISION OFFICE BY
THE DUE DATE SPECIFIED ABOVE**

PLEASE MAKE NECESSARY VENDOR
INFORMATION CORRECTIONS ON THIS FORM:

VENDOR INFORMATION

Return Quotation Request To:

Purchasing Division
K-Street Complex
440 S 8th St Ste 200
Lincoln NE 68508

Item Number / Description	Quantity	UM	Unit Price	Total Price
69139000000 Drives, Variable Speed (AC, AC Flux Vector, DC, Eddy Current , Mechanical, Variable Speed Pulleys, Hydrostatic Speed Variator) Adjustable Frequency Drive As Per Specification	1	EA		

VENDOR MUST COMPLETE THE FOLLOWING

The undersigned represents and warrants that he/she has full and complete authority to submit this quotation and to enter into a contract upon acceptance by the City/County. The undersigned agrees to comply with all conditions above and on reverse side of this document.

COMPANY NAME _____
ADDRESS _____
TELEPHONE _____
EMPLOYER FEDERAL ID NO. OR
SOCIAL SECURITY NUMBER _____

BY (PRINT NAME) _____
SIGNATURE _____
TITLE _____
DATE _____
DELIVERY SCHEDULE _____

DAYS ARO

PURCHASING DIVISION
CITY OF LINCOLN AND LANCASTER COUNTY, NEBRASKA
INSTRUCTIONS TO BIDDERS

1. **BIDDING PROCEDURE** - A bid by a corporation must be signed in the name of such organization by a duly authorized official thereof. Any person signing a bid for a firm, corporation, or other organization must show evidence of his authority so to bind such firm, corporation, or organization. Most departments of the City of Lincoln and Lancaster County agencies are exempt from federal excise taxes and state and local sales and use taxes. Kindly bid without taxes. The City/County will be responsible for paying any taxes which may be due.
2. **FAIR EMPLOYMENT PRACTICES** - Each bidder agrees that he/she will not discriminate against any employee or applicant for employment because of age, race, color, religion, ancestry, national origin, disability, sex or marital status, and that he will take affirmative action to assure that applicants are employed and that employees are treated during employment without regard to age, race, color religion, ancestry, national origin, disability, sex or marital status.
3. **DATA PRIVACY** - Bidder agrees to abide by all applicable State and Federal laws and regulations concerning the handling and disclosure of private and confidential information concerning individuals and corporations as to inventions, patents and patent rights. The bidder agrees to hold the City/County harmless from any claims resulting from the bidder's unlawful disclosure or use of private or confidential information.
4. **INDEPENDENT PRICE DETERMINATION** - By signing and submitting this bid, the bidder certifies that: The prices in this bid have been arrived at independently, without consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor.
5. **CLARIFICATION OF SPECIFICATION DOCUMENTS** - Bidders shall promptly notify the Purchasing Agent of any ambiguity, inconsistency or error which they may discover upon examination of the specification documents. Interpretations, corrections and changes made to the specification documents will be made by written addenda. Oral interpretations or changes to the Specification Documents made in any other manner, will not be binding on the City/County; and bidders shall not rely upon such interpretations or changes. No addendum will be issued later than forty-eight (48) hours prior to the date and time for receipt of bids, except: An addendum withdrawing or postponing the invitation to bid.
6. **BRAND NAMES** - If and wherever in the material specifications or proposal form brand names, make, manufacturer, trade name, or vendor catalog number is specified, it is for the purpose of establishing a grade or quality of material only; and the term "or equal" is deemed to follow. It is the bidder's responsibility to identify any alternate items offered in the bid, and prove to the City/County that said item is equal to or better than the product specified. If variations are not stated in the proposal, it will be assumed that the item being bid fully complies with the City/County's specifications.
7. **DEMONSTRATION/SAMPLES** - If requested, the bidders shall, at bidder's expense, demonstrate and/or furnish samples of the exact item(s) proposed within seven (7) calendar days from receipt of such request from the City/County.
8. **DELIVERY** - Each bidder shall state on his proposal form the date upon which he can make delivery of all equipment or merchandise. F.O.B. to the City/County at the location specified by the City/County, with all transportation charges paid.
9. **WARRANTIES, GUARANTEES AND MAINTENANCE** - A copy of the manufacturer's warranties and/or guarantees for the items being bid must accompany your proposal. A copy of your company's maintenance policies and costs must also accompany your proposal. Replacement parts of defective components shall be shipped to the City/County at no cost. If defective parts are required to be returned to the bidder, the shipping costs shall be borne by the bidder.
10. **ACCEPTANCE OF MATERIAL** - The finished materials must be new, the latest make or model, of the best quality, unless otherwise specified, and the highest grade workmanship. The material delivered under this proposal shall remain the property of the bidder until a physical inspection and actual usage of this material and/or service is made, and thereafter is accepted by the City/County. The material delivered must be fully in accord with specification documents. In the event the material and/or services supplied to the City/County is found to be defective or does not conform to specification documents, the City/County reserve the right to cancel the order upon written notice to the bidder and return materials to bidder at the bidder's expense. Successful bidder shall be required to furnish title to the material, free and clear of all liens and encumbrances, issued in the name of the City of Lincoln or Lancaster County, Nebraska, as required by the contract documents or purchase orders. Selling dealer's advertising decals, stickers or other signs shall not be affixed to the equipment; vehicle mud flaps shall be installed blank side out with no advertisements. Manufacturer's standard production forings, stampings, nameplates and logos are acceptable.
11. **BID EVALUATION AND AWARD** - The signed bid shall be considered an offer on the part of the bidder. Such offer shall be deemed accepted upon issuance by the City/County of purchase orders, contract award notifications, or other contract documents appropriate to the work. No bid shall be modified or withdrawn for a period of sixty (60) calendar days after the time and date established for receiving bids, and each bidder so agrees in submitting the bid. In case of a discrepancy between the unit prices and their extensions, the unit price shall govern. The City/County reserve the right to accept or reject any or all bids, or part of bids, to waive irregularities and technicalities, and to request rebids on the material described in the specification documents.
12. **TERMS OF PAYMENT** - Unless other specification provisions state otherwise, payment in full will be made by the City/County within thirty (30) calendar days after all labor has been performed and all equipment or other merchandise has been delivered, and all such labor and equipment and other materials have met all contract specifications.
13. **LAWS** - The Laws of the State of Nebraska shall govern the rights, obligations, and remedies of the Parties under this proposal and any agreement reached as a result of this process.

Specifications
For
Adjustable Frequency Drive
Theresa Street Wastewater Treatment Facility.
Lincoln, Nebraska - 2004

1.0 General

- 1.1 Supplier shall furnish one (1) adjustable frequency drive as per the specifications described herein.
- 1.2 Equipment and materials supplied shall be new and of current design.

2.0 Acceptable Manufacturers

- 2.1 Danfoss - Aqua 8000 VLT Series
- 2.2 Cutler Hammer - SV 9000 Series
- 2.3 Toshiba - ESPP2 Series
- 2.4 Allen Bradley Powerflex 700 Series

3.0 Application

- 3.1 The Adjustable frequency drive (AFD) will be required to drive and control an existing variable torque load application consisting of a 125 horsepower centrifugal wastewater pump described as follows:
 - 3.1.1 Vertical End Suction Centrifugal Pump, Worthington, Model 16MN-19, rated at 8335 GPM @ 49 TDH
 - 3.1.2 Westinghouse Electric Motor, Lifeline T Model - TBDP, 125 Horsepower, 460 Volt, 3 Phase, 158 Amps, Continuous Duty, 1.15 Service Factor, Type RYE, 885 RPM.
- 3.2 Drive to be sized by the manufacturer for the above noted application at 460 volt, three phase, 60 hertz service.

4.0 Drive Features and Specifications

- 4.1 Specification and drive features shall be considered minimum requirements and not limited to the following:

- 4.1.1 150 Horsepower, constant torque operation as verified by the manufacture.
- 4.1.2 Nema 1 wall mount enclosure sized for an existing space limitation of 27 inch width by 53 inch height.
- 4.1.3 IGBT Output.
- 4.1.4 Auto/Manual operation shall be keypad selectable.
- 4.1.5 Display capable to program and view AFD parameters in plain english.
- 4.1.6 Input 4-20 mA / 0-10 VDC.
- 4.1.7 Analog Output 4-20mA.
- 4.1.8 Fully programmable dry contacts for AFD status monitoring.
- 4.1.9 Internal power supply for Start/Stop/Auto/Manual control contacts.
- 4.1.10 480 Volt power supply and AFD output access at top of AFD.
- 4.1.11 Analog and control power wiring access at top of AFD.
- 4.1.12 Slip compensation.
- 4.1.13 Electronic programmable thermal overload and current limiting.
- 4.1.14 Flying start.
- 4.1.15 Fault monitor and display in plain english.
- 4.1.16 480 Volt Terminations Shall be Located at The Top of The VFD Chassis

3.0 Additional Requirements

3.1 Start-Up And Inspection

- 3.1.1 The supplier of the adjustable frequency drive (AFD), and associated components listed herein shall provide qualified, experienced factory trained technicians to inspect the completed installation and to perform the initial start-up.

3.2 Training

3.2.1 The supplier of the (AFD) and associated components listed herein shall provide a minimum of 2 hours of on-site operation and maintenance training by a qualified, experienced factory trained technician. Training shall be in addition to the maintenance and operation manuals required in these specifications and shall include but not limited to the following:

3.2.1.1 Review and demonstrate all controls and programming specific to the centrifugal pump application.

3.2.1.2 Provide familiarization through review of the operation, maintenance, and parts manuals including schematics or drawings.

3.2.1.3 Identify service representatives, and part suppliers.

3.3 Warranty

3.3.1 The supplier of the (AFD) and associated components listed herein shall provide as a minimum (1) one year parts and labor warranty for the above specified equipment and associated components.

3.4 Operation and Maintenance Manuals

3.4.1 Provide three (3) sets of O&M manuals at the time of AFD delivery.

3.4.2 O&M content shall be specific to the equipment supplied and shall include general operating instruction, recommended spare parts, preventive maintenance, trouble shooting guides, wiring diagrams, schematics, and component exploded views specific to the model supplied.

4.0 Delivery Information and Contact

4.1 Contact Mr. Steve Crisler, telephone number 402-441-7966 or Mr. Rex Jordan, Telephone number 402-441-7991 with any technical questions regarding this request.

4.2 Shipping address shall be Lincoln Wastewater System, Theresa Street Wastewater Treatment Facility, 2400 Theresa Street, Lincoln, NE. 68521