



**Memorandum
Public Works Department**

To: City Manager
Subject: Raw Water Pump Purchase
Date: September 8, 2014
Number: 2014-171

Raw water pumps #1 and #2 are experiencing major vibration issues while in operation. The age of the pumps make repair very cost prohibitive. During repair cost estimation for repair it was discovered that the cost to repair the pumps due to the age and availability of parts far exceeded that of a new pump. Three suppliers have been contacted to supply replacement and installation quotes, only one of which will install. This same supplier replaced raw water pump #3 in 2013 when it failed. We are currently operating at less than optimum redundancy and only have the ability to modify pump rates of one raw water pump. Raw water pump #1 is a single speed pump which operates at 4.2 MGD and raw water pump #2 is a variable speed pump which has the ability to modify the pumping rates up to 6.6 MGD. If either of these pumps fails, the water treatment plant would only be capable of producing 6.6 MGD, which is less than an average high demand day. The replacement of the raw water pumps is critical to the sustainability and dependability of the water treatment plant operations. Electric Pump has supplied a quote of \$54,928.65 for removal of the existing pump and motor and purchase and installation of a new 4600 gpm pump and 250 HP motor. They have also supplied a quote of \$41,290.94 for removal of the existing pump and motor and purchase and installation of a new 3750 gpm pump and 250 hp motor. Purchase and installation of the same manufacture pump and motor as raw water pump #3 is critical to sustainability and maintenance of all three pumps. Replacement of raw water pumps #1 and #2 will allow us to return to normal operating redundancy, thus reducing unnecessary wear and tear on any single unit.

Accompanying this memorandum are the quotes for replacement from Mississippi Valley Pump, Inc., Zimmer and Francescon, and Electric Pump.

Recommendation

The Public Works Department recommends that the City Council approve the purchase of two complete raw water pumps with motors, including installation, to Electric Pump in the amount of \$96,219.59.

Vendor: Electric Pump
Payment Amount: \$96,219.59
Account Chargeable:
Fund: 501 Water Operations
Division: 618 Utilities
Cost Center: 352 Water Treatment Plant
Object Code: 52305 Auto/Equipment Supplies

Requisition Number: R004834
R004835

Submitted by: Randall D. Tweet, Public Works Director
Larry P. Cook, Utilities Superintendent

Approved by: Thomas Thomas, City Manager

QUOTATION



4280 E 14th Street
 Des Moines IA 50313-2604 USA
 Telephone: (515) 265-2222 / FAX (515) 265-8079
 Toll Free 1-800-383-PUMP
 www.electricpump.com

QUOTE NUMBER: 0107251
 QUOTE DATE: 5/14/2014
 REOUESTED DATE: 6/14/2014

SALESPERSON: BRET CALLISON
 CUSTOMER NO: 7322300
 QUOTED BY: JRF

JOYCE

QUOTED TO:
 CITY OF ROCK ISLAND
 1309 MILL STREET
 ROCK ISLAND, IL 61201

JOB LOCATION:
 CITY OF ROCK ISLAND
 1309 MILL STREET
 ROCK ISLAND, IL 61201

CONFIRM TO:
 DAVID JONES

CUSTOMER P.O. DAVID JONES	SHIP VIA OURTRUCK	F.O.B. ORIGIN	TERMS Net 30 Days
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ITEM NUMBER	QUANTITY	UNIT	AMOUNT
REMOVE EXISTING RAW WATER PUMP AND INSTALL RAW WATER PUMP AMERICAN MARSH DOUBLE SUCTION SPLIT CASE PUMP 10X12-15 VERTICAL HD W/ BASE C1/BF, PACKED STUFFING BOX, INBOARD DOUBLE ROW BEARING, OUTBOARD BRONZE FLUTED BUSHING, BRONZE CASE WEAR RING, 420SS SHAFT WITH BRONZE SLEEVE, NONSPACER COUPLING WRAPFLEX 40R10, HORIZ MOTOR WITH HEAVY THRUST BEARINGS 250 HP, 1800 RPM, 449TC PE, SUPPLY MATERIALS TO PLUMB AND PIPE IN NEW PUMP.			54,928.65

ABOVE PRICING EFFECTIVE FOR 30 DAYS

Net Order:	54,928.65
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Order Total:	54,928.65

ZIMMER & FRANCESCON, INC.

6200 65th Avenue
Moline, IL 61265
1-800-621-1118
309-797-1117 tel
877-244-2508 fax

QUOTATION

TO: Rock Island WTP
2215 16th Avenue
Rock Island, IL 61201

QUOTATION NO: 140507AL
DATE: 5/8/14

SUBJECT: Raw Water Pump Replacement

Gentlemen:

We are proposing to furnish the following equipment at the prices indicated and in accordance with the terms set forth herein.

Replace Worthington 300LNNV600 Pump

OPTION 1

One	1	Fairbanks 10" 2845A vertical split case all iron pump with 316 SS sleeve, mechanical seals, and wear rings mounted in vertical stand including coupling. Compatible with existing motor	\$38,960.00
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OPTION 2

One	1	Fairbanks 8" 2844A vertical split case all iron pump with 316 SS sleeve, mechanical seals and wear rings mounted in vertical stand including coupling. Requires an 1800 rpm Motor	\$32,815.00
One	1	USEM 300HP VSS ODP 1800 rpm Motor for 460Vac 3 phase service. Invert Duty rated	\$14,615.00

NOTES

- 1 Installation of equipment is NOT included
- 2 Anchor bolts, leveling wedges and grout NOT included
- 3 Tnemec N69 Prime Coat Included (other coatings available)
- 4 Stand will be fabricated to fit existing motor (verify dimensions)
- 5 Installation INSPECTION and START-UP included
- 6 Freight to job site is included

Schedule

18 Weeks after receipt of order to shipment (typical)



Phone: 563-359-3223
Fax: 563-359-6737
Toll Free: 877-711-7587

QUOTATION

TO: City of Rock Island, IL.

DATE: 5/1/14

ATTN: David Jones

RE: Water Plant Pump

MVP is pleased to offer the following quotation for one (1) New Flowserve Pump Model #300-LNNV-600AA (bare pump only), Ductile iron casing, cast iron impeller, cast iron casing wear ring, carbon steel impeller wear rings, 1040 steel shaft, 13% chrome steel shaft sleeves, mechanical seal, plan 13 piping, rated for 4600 GPM @ 182'TDH.

TOTAL PRICE \$78,185.00 + Frt.

Delivery time – 28 weeks

If you have any further questions regarding this quotation please contact me at the above listed number.

Respectfully Submitted:

Shellie Cabana

Shellie Cabana

QUOTATION

4280 E 14th Street
Des Moines IA 50313-2604 USA

Telephone: (515) 265-2222 / FAX (515) 265-8079
Toll Free 1-800-383-PUMP

www.electricpump.com

QUOTE NUMBER: 0107568
QUOTE DATE: 6/2/2014
REQUESTED DATE: 7/2/2014

SALESPERSON: BRET CALLISON
CUSTOMER NO: 7322300
QUOTED BY: JRF

JOYCE

QUOTED TO:
CITY OF ROCK ISLAND
1309 MILL STREET
ROCK ISLAND, IL 61201

JOB LOCATION:
CITY OF ROCK ISLAND
1309 MILL STREET
ROCK ISLAND, IL 61201

CONFIRM TO:
DAVID JONES

CUSTOMER P.O.	SHIP VIA	F.O.B.	TERMS
DAVID JONES	BESTWAY	ORIGIN	Net 30 Days

ITEM NUMBER	QUANTITY	UNIT	AMOUNT
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WE ARE PLEASED TO OFFER THE FOLLOWING QUOTATION TO REPLACE EXISTING INGERSOLL RAND PUMP WITH AMERICAN MARSH DOUBLE SUCTION SPLIT CASE PUMP 10X12-15 HD PUMP, STANDARD FITTED CONSTRUCTION, 125# SUCTION AND DISCHARGE CONNECTIONS, PURGE GREASE BEARING LUBRICATION, CLOCKWISE ROTATION FROM COUPLING END (RH) STANDARD HORIZONTAL MOUNTING WITH STANDARD BRONZE CASE WEAR RINGS, STANDARD 420 STAINLESS STEEL SHAFTING, STANDARD BRONZE SHAFT SLEEVES, AMP 810 SEAL, C20/E1X14/E1-S304, 250 HP, 1800 RPM, PREMIUM EFFICIENCY TEFC MOTOR MOUNTED ON STEEL BASE PLATE WITH COUPLING AND GUARD. SUPPLY MATERIALS TO PLUMB AND PIPE IN NEW PUMP AND INSTALLATION.			41,920.94
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ESTIMATED LEAD TIME IS 8 WEEKS ARO.

Electric Pump is committed to supplying you, our customer, the highest quality products & service.

joycef@electricpump.com
THANK YOU, JOYCE FROHWEIN

ABOVE PRICING EFFECTIVE FOR 30 DAYS

Net Order:	41,920.94
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Order Total:	41,920.94