In late November of 2012, Raw Water Pump #3 began having major vibration issues while in operation. The pump was taken out of service for repair of the rotating assembly. During repair cost estimation of Raw Water Pump #3 it was discovered that the cost to repair the pump due to the age and availability of parts far exceeded that of a new pump. Initial estimations to repair the pump range from $113,000.00 to $116,000.00. Three suppliers have been contacted to supply replacement and installation quotes, two of which have supplied quotes. Multiple attempts have been made to contact the third supplier, but to no avail. 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 raw water pump #2 fails, the water treatment plant would only be capable of producing 4.2 MGD, which is 1.0 MGD less than a current average day’s production demand. The replacement of the raw water pump #3 is critical to the sustainability and dependability of the water treatment plant operations. Electric Pump has supplied a quote of $48,725.00 for purchase and installation of a new 4600 gpm pump and 250 HP motor. Replacement of Raw water pump #3 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 repair from Zimmer and Francescon, Inc. and LAI, Ltd. Also included are the quotes for replacement from Mississippi Valley Pump, Inc. and Electric Pump.

**Recommendation**

The Public Works Department recommends that the City Council approve the purchase of one complete raw water pump and motor, including installation to Electric Pump in the amount of $48,725.00.

Vendor: Electric Pump  
Payment Amount: $48,725.00  
Account Chargeable:  
  - Fund: 501 Water Operations  
  - Division: 618 Utilities  
  - Cost Center: 352 Water Treatment Plant  
  - Object Code: 52305 Auto/Equipment Supplies

Requisition Number:  
Purchase Order Number:  

**Submitted by:** Robert T. Hawes, P.E., Assistant City Manager/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) 265-8879
toll free 1-800-363-PUMP
www.electricpump.com

QUOTE NUMBER: 0098226
QUOTE DATE: 1/25/2013
REQUESTED DATE: 2/25/2013

SALESPERSON: BRET CALLISON
CUSTOMER NO: 7322300
QUOTED BY: jrh
JOYCE

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

JOB LOCATION:
CITY OF ROCK ISLAND
PUBLIC WORKS
2215 16TH AVENUE
ROCK ISLAND, IL 61201

CONFIRM TO:
DAVID JONES 309-732-2310

*** QUOTE ORDER - DO NOT PAY ***

<table>
<thead>
<tr>
<th>CUSTOMER P.O.</th>
<th>SHIP VIA</th>
<th>F.O.B.</th>
<th>ORIGIN</th>
<th>TERMS</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>DAVID JONES</td>
<td>BESTWAY</td>
<td>ORIGIN</td>
<td>ORIGIN</td>
<td>Net 30 Days</td>
<td></td>
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REVISED 1/25/13  REVISED 1/25/13

WE ARE PLEASED TO OFFER THE FOLLOWING QUOTATION FOR REPLACEMENT RAW WATER PUMP TO PRODUCE 4600 GPM @ 182' TDH:

* EACH

1.00
0.00
0.00
48,725.00
48,725.00

AMERICAN MARSH 10X14-15
VERTICAL HD W/ BASE CUBF, 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 250 HP, 1800 RPM, 449TC PE

THE ABOVE PRICING INCLUDES LABOR TO INSTALL AND PIPE NEW RAW WATER PUMP, MATERIALS TO PLUMB IN NEW PUMP.

ANY ELECTRICAL MODIFICATIONS LIKE CONDUIT, WIRE, CONTROLS OR MOTOR OVERLOADS WILL BE BY OTHERS.

THIS QUOTE INCLUDES ONLY MATERIAL AND SERVICE LISTED, IF OTHER UNFORESEEN ITEMS OR ISSUES ARISE, WE WILL NOTIFY YOU PRIOR TO PROCEEDING.

LEAD TIME 18-20 WEEKS FROM RECEIPT OF ORDER AND APPROVAL.

Electric Pump is committed to supplying you, our customer, the highest quality products & service.
joyce@electricpump.com
THANK YOU, JOYCE HANSON

ORIGINAL
QUOTATION

TO: City of Rock Island, IL.                    DATE: 1/14/13

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 $75,350.00 + 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
FACSIMILE COVER SHEET

To: James Frew  
From: Mary S. Healy

City of Rock Island  
LAI, Ltd.

Fax: Via e-mail  
Pages: 1

Phone: 309-236-0548  
Date: December 12, 2012

Re: Flowserve Model 300LNNV600  
S/N 9708MS00239-1

Listed below, please find the parts information you requested:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Part #</th>
<th>Description</th>
<th>Price Each</th>
<th>Delivery</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td>Complete Rotating Assy w/ Mechanical Seal (Pump less casing)</td>
<td>$58,465.00</td>
<td>18 weeks</td>
</tr>
<tr>
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<td></td>
<td>Expedite Fee for above</td>
<td>$10,523.00</td>
<td>14 weeks</td>
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<tr>
<td>1</td>
<td></td>
<td>Sheet of Gasket Material for Casing – cut to casing shape in field by others</td>
<td>$250.00</td>
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<tr>
<td>2</td>
<td></td>
<td>Complete Mechanical Seal (L183,L28)</td>
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<tr>
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<td>Expedite Fee for above (L183,L28)</td>
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<tr>
<td>1</td>
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<td>C.I. Impeller</td>
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<td>Expedite Fee for above</td>
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<tr>
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<td>Impeller Wear Rings (L183)</td>
<td>$941.00</td>
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<tr>
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<td>Expedite Fee for Above (L338,70)</td>
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<td>6 weeks</td>
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<td>C.I. Casing Wear Rings (L338,70)</td>
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<td>Expedite Fee for Above (L640,80)</td>
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<td>Casing Wear Ring Pins (L640,80)</td>
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<tr>
<td>1</td>
<td>D602GZ052</td>
<td>Line Bearing</td>
<td>$116.00</td>
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<td>2</td>
<td>D602GZ088</td>
<td>Thrust Bearings</td>
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<td>O’Ring</td>
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<td>Sleeve O’Rings</td>
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<td>V-Ring Seal – Outer</td>
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<tr>
<td>2</td>
<td></td>
<td>V-Ring, Inner</td>
<td>$45.50</td>
<td>4 weeks</td>
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If you should have any questions or need additional information, please give me a call.
Fax Quotation

Zimmer & Francescon, Inc.
6200 65th Avenue
Moline IL 61265
309-797-1117
877-244-2508 Fax
rex@zimmerfrancescon.com

QUOTATION # 121215
Date: 12/13/12
To: Rock Island WTP
Attention: Jamie
Fax #: 732-238-4

From: REX LARSON -09

Job Description: Worthington 300LNNV800, on 9708MS00239-1 Parts

<table>
<thead>
<tr>
<th>QUANTITY</th>
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<th>DESCRIPTION</th>
<th>PRICE</th>
<th>TOTAL</th>
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<tbody>
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<td>Complete rotating assembly w/mechanical seal</td>
<td>$73,085.00</td>
<td>$73,085.00</td>
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<td>Sheet gasket material to cut yourself</td>
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Delivery for rotating assembly 18 Weeks ARO

<table>
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<td>Impeller, CI</td>
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<tr>
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<td>Impeller wear rings</td>
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<td>1</td>
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<td>Thrust bearings</td>
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<td>Outer grease seal</td>
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<td>2</td>
<td>ea</td>
<td>Inner grease seal</td>
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<td>Complete mechanical seal</td>
<td>$5,685.00</td>
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Delivery for impeller 18 Weeks ARO

Total Materials: $15,959.00