



Public Works Utility Operations

DATE: June 11, 2024

FROM: Michelle Klose, Director Public Works Utilities

ITEM: PKG Contracting, Inc. WWTP Project

REQUEST:

Work Authorization 2 with PKG Contracting, Inc., for the Wastewater Treatment Plant Flow Equalization (FEQ) Project.

BACKGROUND INFORMATION:

Bids were received on May 9, 2024 for early procurement for the FEQ project at the wastewater treatment plant. The equipment included in the early procurement includes electrical equipment, pumps, motors, and clarifiers which have long lead times for production. The bid tabulation for the FEQ equipment is attached for review.

RECOMMENDED CITY COMMISSION ACTION:

Approve Work Authorization 2 to PKG Contracting, Inc., in the amount of \$2,158,933 for early procurement of equipment for the FEQ Project at the Wastewater Treatment Plant.

STAFF CONTACT INFORMATION:

Amber Araujo, Executive Assistant, 701-355-1739, aaraujo@bismarcknd.gov

ATTACHMENTS:

1. Equipment Procurement Proposal



May 17, 2024

Michelle Klose, Director
Bismarck Public Works Utility Operations
601 South 26th Street
Bismarck, ND 58504

Re: Flow Equalization (FEQ) Project
Bismarck Wastewater Treatment Facility
Sub: WA2 Procurement Proposal

Dear Ms. Klose:

We are pleased to submit our Work Authorization 2 to provide the electrical, pumps/motors, and clarifier equipment as an early procurement for FEQ project at the Bismarck Wastewater Treatment Facility per the Bid results for the following price.

Equipment Procurement **\$2,158,933**

Attached is the Bid Tabulation, the risk register associated with equipment, and the Exhibit B Work Authorization. The bids will be for the base bids to Edling Electric for the electrical equipment, Vessco for the pumps and motors, and Fougner for the clarifiers. No alternates were accepted for the project.

Please feel free to call my direct cell phone number at 701 527-2451 or email russ@pkg-inc.com or Darin Pfingsten darin@pkg-inc.com if any questions arise.

Thank you for your time,

A handwritten signature in black ink that reads 'Russell Sorenson'.

Russell Sorenson, CMAR Manager
PKG

Cc: Darin Pfingsten, President PKG
Jeremy Johnson, Project Manager PKG
Jarrett Hillius, HDR

Office: 701-232-3878
Fax: 701-232-3935

4301 S University Drive
Fargo, ND 58104
www.pkg-inc.com



Bismarck WWTF - FEQ Equipment Bid Tabulation

5/09/24 @ 4:00 pm

Bidder	Base Bid	Preconstruciton Fee	Alternatives	Acknowledge Addendum(s)		
Bid Package 26b - Electrical Equipment						
Edling Electric	\$ 617,145.00	\$ 4,000.00		x		
	Equipment is EATON, Breakers are Siemens (Bid Form incorrect)					
Skeels Electric	\$ 658,460.00	\$ 5,000.00		x		
	Equipment is EATON, Breakers are Siemens					
Bid Package 43b - Pumps and Motors						
Vessco	\$ 329,300.00	\$ -		x		
	Bid all pumps					
Quality Flow Systems	\$ 71,645.00	\$ -		x		
	Bid only Supernatant and Scum Pumps (Boerger)					
Bid Package 46c - Clarifiers (Alternates: A.1 5-year warranty; A.2 FRP feedwell)			Alt A.1	Alt A.2		
Fougner	\$ 1,090,284	Plow Scraper	\$ 3,500.00	\$ -	\$ (99,917.00)	x
	\$ 1,182,422	Spiral Scraper		\$ -		
Ovivo	\$ 1,334,360	Plow Scraper	\$ 40,000.00	\$ 9,681.000	\$ 16,929.00	x
	\$ 1,410,431	Spiral Scraper		\$ 9,681.000		
WesTech	\$ 1,394,703	Plow Scraper	\$ 91,790.00	\$ 18,116.000	\$ 48,808.00	x
	\$ 1,436,552	Spiral Scraper		\$ 18,116.000		
Evoqua	\$ 2,015,848	Plow Scraper	\$ 211,397.00	\$ 166,446.000	\$ -	x
	\$ 2,113,973	Spiral Scraper		\$ 172,346.000		

Project:

Flow Equalization Improvements

Owner:

City of Bismarck, Wastewater Treatment Facility

Exhibit B - Work Authorization Compensation

Work Authorization No.: WA2 - FEQ Work Authorization: Equipment Procurement

Use the following table for early procurement of equipment and for early Bid Packages for construction work to be performed prior to the final bidding and 100% GMP

Early Phased Guaranteed Maximum Price

Bid Package	Description	Units	Quantity	Unit Price	Amount
26b	Electrical Equipment	ls	1	\$ 617,145.00	\$ 617,145.00
43b	Pumps and Motors	ls	1	\$ 329,300.00	\$ 329,300.00
46c	Clarifiers	ls	1	\$ 1,090,284.00	\$ 1,090,284.00
	No Alternates Accepted				\$ -
					\$ -
					\$ -
Equipment Procurement					\$ 2,036,729.00
CMAR Fee and Contingency will be totaled at 100% GMP					
CMAR Fee			0%		\$ -
CMAR Contingency Allowance *Note above			6%	% or Fixed Cost	\$ 122,204.00
(Total Cost of the Equipment, CMAR Fee and CMAR Contingency Allowance)					\$ 2,158,933.00

City of Bismarck WWTP - Flow Equization Projct - Risk Register- Equipment Procurement WA 2

CONTINGENCY BEFORE MIDIGATION \$ 122,203.74

MIDIGATED CONTEGENCY \$ 24,440.75

RISK DESCRIPTION										MITIGATION																																																									
#	STATUS	ENTITY CAUSING RISK	PRIMARY RISK CATEGORY	RISK DESCRIPTION	Bid Package	\$ in Cost Model	POTENTIAL OUTCOME(S) OF RISK	Field of Impact Schedule Budget Reputation	Intensity of Impact	RISK MATRIX (VERY LOW TO VERY HIGH)	MITIGATION CATEGORY	MITIGATION DESCRIPTION	RESPONSIBILITY FOR MITIGATING/MANAGING RISK	CONTINGENCY CALCULATION	CONTINGENCY VALUE	MITIGATION PROBABILITY	TOTAL CONTINGENCY VALUE	EVENT TRIGGERING ELEMINATION OF RISK																																																	
13	Open	Engineering Construction	Engineering Permitting Construction Other	Equipment Bid Package - Early Procurement	26b 43b 46c	\$ 2,036,729	Changes in Equipment Contract during final design and submittals	Budget	Prob High Impact Low	<table border="1"> <tr> <td></td> <td>VH</td> <td>5</td> <td>8</td> <td>12</td> <td>20</td> <td>24</td> </tr> <tr> <td></td> <td>H</td> <td>4</td> <td>6</td> <td>10</td> <td>16</td> <td>20</td> </tr> <tr> <td></td> <td>M</td> <td>3</td> <td>4</td> <td>6</td> <td>9</td> <td>12</td> </tr> <tr> <td></td> <td>L</td> <td>2</td> <td>3</td> <td>4</td> <td>6</td> <td>8</td> </tr> <tr> <td></td> <td>VL</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>6</td> </tr> <tr> <td></td> <td></td> <td>VL</td> <td>L</td> <td>M</td> <td>H</td> <td>VH</td> </tr> <tr> <td></td> <td></td> <td colspan="5">IMPACT</td> </tr> </table>		VH	5	8	12	20	24		H	4	6	10	16	20		M	3	4	6	9	12		L	2	3	4	6	8		VL	1	2	3	4	6			VL	L	M	H	VH			IMPACT					Avoid Transfer Mitigate Accept	Correct contracts to match changes.	Engineering	Package Value x % Risk	\$ 122,204	80%	\$ 24,441	90 - 100% Design revisions
	VH	5	8	12	20	24																																																													
	H	4	6	10	16	20																																																													
	M	3	4	6	9	12																																																													
	L	2	3	4	6	8																																																													
	VL	1	2	3	4	6																																																													
		VL	L	M	H	VH																																																													
		IMPACT																																																																	