Webb County Utilities Request for Proposals

"Sewer Plant Electrical Improvements"

Section I. Wastewater Treatment Plant Lift Station

- A.) This proposal is intended to provide the City of Rio Bravo a completely functional local control system at the WWTP Main Lift Station, any repairs not specifically called out that are needed will be provided.
- B.) Provide and install Level transmitter (Siemens Hydro Ranger 200), set up for pump control based on levels to be provided by Water Plant Operator.
- C.) Provide and install (6) new floats as back-up Pump Controls.
- D.) Repair existing Pump Control Panel. Replace all damaged components and wiring as needed to complete a fully functioning Panel.
- E.) Provide and install new piping and junction boxes as shown on attached drawing, junction boxes to be stainless steel NEMA 4X sized appropriately for this installation, new piping to match existing.
- F.) Provide and install Seal-offs as required in new piping to protect control panel from excess gasses.
- G.) Provide and install new control and power wire as required to complete a working system.

Section II. Aeration Basins Electrical Repair

- A.) Provide (2) Siemens ITE VFD Drive MCC Buckets to replace missing units for Aeration Basins 1 and 3.
- B.) Installation, Control Termination and testing.

Section III. Installation of Positioning Valves

- A.) Provide four (4) EMO (Electric Motor Operated) Positioning Valves for Aeration Basins 1-4 Air Valve Model: AUMA SG 12.1
- B.) Provide four (4) EMO Positioning Valves for Aeration Basins 1-4 Sludge Valve Model: AUMA SG 05.1
- C.) Installation, control termination and testing.

Section IV. Area Safety Lighting

- A.) Provide twelve (12) SYL 75W FLU LAMP Cat# F96T12/CWXSSCVP
- B.) Provide twenty-three (23) SYL100W MED LAMP Cat# MP100UMED
- C.) Provide four (4) ATLAS 150MH WALL PACK Cat# WLM150MHPQPK
- D.) Installation to be included of all lighting.



Webb County Purchase Justification Form

Funding Sources Requested:		
Capital Outlay Fund #603-0101-8	-8801:	
XX Building Improvement Fund #60	04-0101-8103	
Capital Outlay Series 2013 750-8	8000-8801	
Vehicle Lease Program		
Department <u>Utilities</u>	Systems Manager: Adrian Montemayor	
Number of Dept. Employees 31	 .	
Item	Qty Qty on Condition of item Unit Price Exte	nd

ltem	Qty	Qty on Hand	Condition of item being replaced: Poor/Fair/Good	Unit Price	Extended Price
Sewer Plant Electrical Improvements,	1	0	Poor	\$159,700	\$159,700
RFP 2015-47					
			The state of the s		
				_	
Total					\$159,700

Total Cost of item(s) being purchased:	\$ \$159,700
Do you have 3 quotes for all items listed above?	YesNo_XX
What is the purpose of each item(s)requested? Projects consist of three categories including the re	pair and replacement of electrical wiring,
components, and lighting for the Sequence Batch R	
station used on transporting raw sewage, and lighti	
If the purchase is to replace item(s) is the item(s) bei	ng replaced currently in use?
What is the impact or risk potential if we don't purch Without these improvements we risk the event of cability to treat wastewater at our facility. These are comply with State requirements and the prevention	omplete loss of power access eliminating the critical improvements needed to prevent and
-safety of the communities of Rio Bravo and El Ceniz	0.
Please Circle Priority: Critical Upg	rade Desirable
PRIORITY 1: CRITICAL — Required to prevent a critical reduction protect valuable property; and/or comply with insurance or code PRIORITY 2: UPGRADE — Required for significant upgrade in seroperations. PRIORITY 3: DESIRABLE — Required to introduce desirable , but small improvements in operating efficiency, economy and/or safe	requirements. vice, operating efficiency, economy and/or safety of current optional new service, program, faculty or staff, or to make
Required with this form:	·
Price quotes	
 Pictures of item(s) to be replace 	Department/Head Signature
	1/20/15
	Date: 4/30/15

**** Please note this form must be filled out in its entirety for purchase to be considered for approval ****

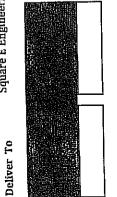
Purchase Requisition County of Webb

Water Utility Adrian Montemayor (956_) 523-5593

Department

Requisitioned By Adrian Monterr Phone No. (956_) 523-555 56 April 30, 2015 Square E Engineering

Req. Number Req. Date



Enichase Requisition E.Mail Standard E.Mail Capital Outlay Requisition I hereby certify that there is an available balance in my approved budget for the current year sufficient to pay for the item(s) requested and that the items are absolutely necessary for the discharge of my official puties. Submitting the form from Appendiate officials E.Mar Constitutes Agnature Elected / Appointed Official's Signature

Webb County Purchasing Department RFP 2015-47 Wastewater Treatment Plant Electrical Improvements Bid Opening: November 04, 2014



Square E Engineering c/o Juan-Pablo Cantu 32212 Whipple Rd. Los Fresnos, TX 78566 956-466-3492 956-233-4826 pcantu@squareeeng.com

Primary

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Description	Dollars Per Hour
	\$163,670.00
Proposed Price	\$103,070.00
Expected Time to	32 to 40 Weeks
Complete	
Date available to start	\$41,953.00
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Webb County Utilities

Request for Proposals

"Influent Screw Screen Rehabilitation"

- A.) Disconnect electrical power, dismantle and dispose of the currently installed WasteTech screw screen.
- B.) Clean the existing screen channel of debris and rags and prep for installation of a new WasteTech screen.
- C.) Install and mount the WasteTech screen. See detailed screen description/proposal from WasteTech, div. of Kuster's Water below.
- D.) Reconnect all electrical power and control lines from the existing control panel to the new screen.
- E.) Startup and commission the new screen.
- F.) Provide O&M manuals.
- G.) Provide operator training and maintenance instructions.
- H.) Delivery to be no more than 16 weeks from receipt of signed Purchase Order.
- 1.) Substantial completion is to be no more than 3 weeks after delivery of screen to jobsite.

ITEM SPECIFICATIONS:

Screw Screen:

For the design and supply FOB Spartanburg, SC, One (1) Waste Tech/KZC Model ICSS6/10 in 316Stainless Steel

Screen Design Parameters:

Peak flow: 4.5 mgd Channel width: 2.5 ft. Channel depth: 10.0 ft.

Screenings discharge height: 6.6 ft. (above floor level)

Size of clear opening: 10 mm nominal perforation

Angle of screen: 35° from horizontal Wash Water: 15 – 20 gpm @ 50 psig

To include the following:

- -Semi-cylindrical stationary perforated screen basket 316 stainless steel -3/8" (10 mm) nominal perforated openings with upper support ring– 316 stainless steel
- -Rubber/Neoprene seals for screen at 350 incline
- -12" nominal diameter dewatering screw to transport and dewater the screen material 316 stainless steel
- -Brush attached to spiral with stainless steel fasteners
- -Pivoting support stand 316 stainless steel
- -Support plate flange 316 stainless steel
- -Upper and lower spiral screw replaceable wear bars high tensile steel
- -Compaction zone integral part of the screenings screw conveyor and transport tube design 316 stainless steel
- -2.0 hp 1800 rpm TEFC motor with gear reducer suitable for use in a Class 1, Div 1. Group D environment
- -Automatic spray wash system provided for the screen constructed of 3/4" dia 316 stainless steel piping and flexible reinforced PVC hose with stainless steel spray nozzles
- -The dewatering section shall be provided with a ring type flush water header system to ensure flushing of the compaction zone header design to be oriented to completely wash the full surface of the transport tube drainage area
- -Solenoid valves shall be ¾" bronze body, shall be normally closed and rated for up to 100 psig and 120 vac operation
- -Isolation ball valve shall be 3/4" bronze, with stainless steel ball and stem and Teflon seats.
- -3/4" bronze strainer, 80-mesh.
- -Fasteners 316 stainless steel
- -Anchor bolts 316 stainless steel

Controls:

-One (1) Float switch



Webb County Purchase Justification Form

Funding Sources Requested:		
Capital Outlay Fund #603-010	1-8801:	·
XX Building Improvement Fund #	604-0101-8103	
Capital Outlay Series 2013 750)-8000-8801	
Vehicle Lease Program		
Department Utilities	Department Head_	Luis Perez-Garcia, P.E.; County Engineer
Number of Dept. Employees 31		

ltem	Qty	Qty on Hand	Condition of item being replaced: Poor/Fair/Good	Unit Price	Extended Price
Sewer Treatment Plant Raw Water	1	0	Poor	\$174,000	\$174,000
Spiral-Screen					
Screen is used for removal of all non- organic materials received at the wastewater plant as per requirements of State Rules and Regulations.					
This equipment has been removed from its required location and no primary treatment provided for at least 5 years.					
This cost includes electrical modifications and installation with training and warranty.					
Total					\$174,000

Total Cost of item(s) being purchased:	\$ \$174,000
Do you have 3 quotes for all items listed above?	Yes No_XX
What is the purpose of each item(s)requested?	als received at the wastewater plant as per
If the purchase is to replace item(s) is the item(s) being Yes NoXX	ng replaced currently in use?
What is the impact or risk potential if we don't purch Risk of reduced treatment of raw sewage from the R State violations and fines.	ase item(s)? tio Bravo and El Cenizo communities leading to
Please Circle Priority: Critical Upgr	rade Desirable
PRIORITY 1: CRITICAL — Required to prevent a critical reduction is protect valuable property; and/or comply with insurance or code is PRIORITY 2: UPGRADE — Required for significant upgrade in serroperations. PRIORITY 3: DESIRABLE — Required to introduce desirable , but a small improvements in operating efficiency, economy and/or safe	requirements. vice, operating efficiency, economy and/or safety of current optional new service, program, faculty or staff, or to make
Required with this form:	
 Price quotes Pictures of item(s) to be replace 	Department/Head Signature Date: 4/30/15

**** Please note this form must be filled out in its entirety for purchase to be considered for approval ****

Purchase Requisition



Adrian Montemayor (956_) 523-5593

Requisitioned By

Phone No.

Department

Water Utility

County of Webb



Purchase Requisition Mail Standard

E-Mail Capital Ouday Requisition

I hereby certify that there is an available balance in my approved budget for the current year sufficient to pay for the item(s) requested and that the items are absolutely necessary for the discharge of my official duties.

Elected / Appointed Official's Signature

Submeting this formation Appropriate Official's E-Mail Constitutes Signature

Square E Engineering

Deliver To Req. Date

April 30, 2015

52

Req. Number

604-0101-8103	Purchase new and install one (1) Sewer	1 \$174,000	\$174,000.00 01/01/2015	Replace damaged and unrepairable	\$174,000.00
	Raw Water Spiral Screen, includes			existing screen for completion of	
	electrical modifications and demolition			required primary treatment	
					\$174,000.00
				•	

Webb County Purchasing Department RFP 2015-47 Wastewater Treatment Plant Electrical Improvements Bid Opening: November 04, 2014



Square E Engineering (C/o,Juan-Pablo Cantu 32212 Whipple Rd. Los Fresnos, TX 78566 956-466-3492 956-233-4826 pcantu@squareeeng.com

Treatment Equipment Company c/o Bruce Smith 6220 Campbell Rd. #101 Dallas, TX 75248 972-931-1116 [fuque@lectx.com

Primary

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Description	Dollars Per Hour	
Part A.		
Screw Screen	\$28,655.00	Not Stated
Part B.	\$52,650.00	Not Stated
Screen Design Parameters		
Part C.	\$78,000.00	Not Stated
Item Specifications		
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Part D.	\$395.00	Not Stated
Controls		
Labor Rates	\$110.00 per/hour	Not Stated
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Estimated time to Complete	20 to 28 weeks	14-16 Weeks
Estimated time to complete		
	[18] 海州文建筑社会中18 中国中央中部代本部。	GRAND TOTAL For All Sections
*		\$205,000.00
		3、「中国、中国的工程等,本有的建设的基本工程等的基本