



**Recommendation for
Water & Wastewater Commission**

Commission Meeting Date:	July 10, 2019
Council Meeting Date:	August 8, 2019
Department:	Purchasing Department
Client:	Ayman Benyamin, Rick Coronado
SUBJECT	
Ratification of expenditures, with Austin Armature Works, LP, for pump repairs, in the amount of \$149,457.	
AMOUNT AND SOURCE OF FUNDING	
Funding was available in the Fiscal Year 2018-2019 Operating Budget of Austin Water.	
Purchasing Language:	Ratification.
Prior Council Action:	
Boards and Commission Action:	
MBE/WBE:	This contract is exempt from the City Code Chapter 2-9D Minority Owned and Women Owned Business Enterprise Procurement Program; therefore, no subcontracting goals were established.

During heavy rains events in the spring and fall of 2018, trash and debris washed into the City's wastewater intake points affecting the South Austin Regional Transfer Lift Station (SARTLS). The SARTLS has three pumps that transfer wastewater to the South Austin Regional Wastewater Treatment Plant. As a result of the exponentially higher than normal trash and debris, this caused severe damage to two of the three pumps.

In order to continue to provide services to Austin residents during this time, Austin Water wastewater operations staff removed the damaged pumps as they failed for evaluation. As the pumps were removed for evaluation it caused additional pump failures trying to maintain the production capacity. Austin Water rented stationary pumps to maintain production capacity while the primary pumps were being evaluated and repaired.

These expenditures for the pump repairs were performed in support of the protection of the environment, and public health and safety concerns. The amount of this ratification is based on the cumulative amount for all pump repairs over the City Manager's authority.



City of Austin Purchasing Office

Certificate of Exemption for Professional Services, Public Health and Safety or Other Exempt Purchase (Non-Competitive)

DATE: 4/15/2019

DEPT: Lift Stations/RTF

TO: Purchasing Officer or Designee

FROM: PURCHASING

POC: James Dias

PHONE: 512-972-1434

Chapter 252 of the Local Government Code requires that municipalities comply with the procedures established for competitive sealed bids or proposals before entering into a contract requiring an expenditure unless the expenditure falls within an exemption listed in Section 252.022.

Refer to Local Government Code 252.022 for a complete list of exemptions:

[Link to Local Government Code](#)

The City has selected a vendor for contract award and declares the competitive solicitation procedures in Local Government Code Chapter 252.022 to be exempt for this procurement. This Certificate of Exemption is hereby executed and filed with the Purchasing Office as follows:

1. The undersigned is authorized and certifies that the following exemption is applicable to this procurement.

Please check the criteria listed below that applies to this request:

- A procurement made because of a public calamity that requires the immediate appropriation of money to relieve the necessity of the municipality's residents or to preserve the property of a municipality.
- A procurement necessary to preserve or protect the public health or safety of the municipality's residents.
- A procurement necessary because of unforeseen damage to public machinery, equipment, or other property.
- A procurement of personal, professional, or planning services
- Other exemption from Chapter 252.022: _____

2. Describe this procurement

- What it is for and why it is needed?
 - Emergency Repair of Flyght 177 HP Submersible Pump from LS-055, This includes, Disassemble and Inspection, Initial tests on Stator, Steam Clean all parts, Measure all machine fits, T.I.R. the shaft, Media blast the parts, bore and bush housing-housing-both guide and thrust bearing. Weld and machine bearing journals, Weld and machine seal fits-Inner +Outer, Reduce Impeller size from 550 mm to 450 mm, Dynamic Balance with components, Pre-burn stator core test, Post-burn stator test, Strip and record stator data, Prep stator for rewind, wind stator, Connect Stator, Terminate new stator Leads, VPI stator, Clean after bake, Install new bearings on shaft, Install new seals, Install new water sensor, Pre-assembly tests on the stator, Assemble unit, Final dynamic tests with vibration analysis, Prep and paint, Final quality assurance, Include replacement of power and control cables, trim pump impeller. Delivery.

- Describe the following (as applicable):

- **For Public Calamity, Public Health and Safety, Unforeseen Damage to Public Machinery or Equipment, or Critical Business Need Exemptions:**

- Provide description of the event leading to the procurement and a business justification for this purchase.
- What would be the impact to department operations and the community if this purchase was not made?

By not having a second pump in this station we are currently running a high risk of an SSO occurrence. WE are currently renting pumps to back up this station at the cost of around \$14,000.00 per month, having this pump repaired will allow us to stop renting the pumps.

- How and why this vendor was selected?

This vendor was selected due to historical work with this vendor, this pump had been repaired by Austin Armature but needed to go to a different vendor due to concerns about the vendor repair.

- **For Professional, Personal, or Planning Service Exemptions:**

- Why is the vendor the most qualified to provide the services?
- Does this vendor have a history of working with the City? If so, was it on this particular service?
- Will this procurement be component of a larger service or phases of service?
- Is the vendor a City of Austin local vendor?
- Does the vendor hold an MWBE certification with the City, a HUB certification with the State of Texas, or any other minority or women owned certifications?
- What qualifications, certifications, or specialized training does the vendor have?
- What is the impact if a contract is not secured with this particular vendor (loss of project timeline, loss of funding etc.)?
- What other vendors can provide these services and why are they not the best fit for the contract?

- **For Other Exceptions from Chapter 252.022:**

- Explain the circumstances of the procurement.

- **Prices were determined to be reasonable based on the following (select all that apply):**

- Prices are established under a current Cooperative contract.

Notes: At a minimum, note the contract number, contract title, cooperative entity, and government or entity who created the contract.

- Prices are the same or similar to current City contract.
Notes: At a minimum, note the City of Austin contract number and title.
- Prices are the same or similar to current contract with another government.
Notes: At a minimum, note the contract number, title and government that created the contract.
- Prices are on a current and publicly available list price, for the same or similar products, available to all government and commercial customers.
Notes: At a minimum, note the list price title, source of the list price (catalog and catalog publish date or web address and download date).
- Prices are established by law or regulation.
Notes: At a minimum, note the legal or regulatory reference that established the prices.
- Other means of determining Price Reasonableness.
Notes: Describe any other source that was used to establish Price Reasonableness.

* The questions in the form are designed to justify why this purchase should be exempt from a competitive procurement process. Failure to provide adequate documentation to substantiate the request may lead to the request being rejected.

SAR XFER is a three pump station at the time of the failure there were zero pumps in the station as the other pump was also in the shop for repairs. This pump had already been repaired by Austin Armature. To ensure that it was not a vendor related repair issue the pump was sent to Shermco Industries for evaluation and repair. The SAR XFER Lift station pumps approximately 5,000,000 gallons per day and a failure at this station would cause extensive ecological damage to the Colorado River, along with the surrounding neighborhood.

3. Forward the completed and signed Certificate of Exemption to the Purchasing Office along with the following documentation:
- Scope of Work or Statement of Work (if applicable)
 - Vendor's proposal/quote (if applicable)
 - Project timeline with associated tasks, schedule of deliverables or milestones, and proposed payment schedule
 - Professional resumes, certifications, and/or licenses (Professional, Personal or Planning Services Only)
 - Other supporting documentation

4. Because of the above facts and supporting documentation, the City of Austin exempts this procurement from Local Government Code Chapter 252 and intends to contract with:

(Vendor Name): Austin Armature for

(Description of Procurement): Repair and Overhaul of 177 HP Flyght Pump

5. Check the contract type (one-time or multi-term) and fill in the dollar amount and term as applicable:

This is a one-time request for \$ \$ 149,457.40

This is a multi-term contract request for _____ (# months for base term) in the amount of \$ _____ with _____ (# of renewal options) for \$ _____ each for a total contract amount of \$ _____.

Recommended
Certification


Originator 4-16-19
Date

Approved
Certification


Department Director or designee 4/24/2019
Date


Assistant City Manager / General Manager 5/9/19
Date
or designee (procurement requiring Council approval)

Purchasing Office
Review


Authorized Purchasing Office Staff 5/13/19
Date

Purchasing Office
Management Review
(If required due to signature authority level)

Purchasing Officer or designee
Date



MEMORANDUM

To: Utility Purchasing Section
From: Ellery Studivant, Division Manager Wastewater Treatment
Date: April 16, 2019
Subject: Report of Non-Compliance with City of Austin/Utility Purchasing Process

In accordance with the Utility SOP entitled "Purchasing Emergency Purchase Procedure" the following report is submitted regarding the non-compliance with the City/Utility purchasing process during an emergency.

1. Describe nature of emergency and actions required correcting.

On March 28, 2018 a heavy rain event caused an enormous amount of trash and debris to pass through the Boggy Creek Lift station, (LS-22), this caused severe damage to the four pumps in the station requiring the rebuilding of three of the four pumps. At the station, the flow from Boggy Creek Lift station flows to the SAR Xfer station to be pumped to the gravity line serving the SAR WWTP. The trash and debris that passed through the pumps went to the SAR XFER Lift station and caused extreme wear on those pumps as well.

The impellers on these pumps were replaced in July 2018. In April of 2018 Pump #3 failed at the station and was sent Flyght for evaluation, Flyght stated that the pump was a catastrophic failure and was not viable to repair and would require replacement. The decision was made not to replace this pump due to the expected relief of the station. On October 21, 2018 an electrical issue at the station affected the motors on both the remaining pumps. Pump #1 was deemed bad and Pump #2 was in imminent failure. The number 1 pump had been repaired and returned on 11/4/2019 on CT-2200-AW181030010.

On November 29, 2018 Pump #2 was removed and sent to Austin Armature for repair, the station was operating on one pump with the small bypass pump for assistance if needed. On December 27, 2018 Pump #1 failed again. The pump was again taken to Austin Armature for analysis. It was found that the pump had suffered excessive vibration which caused catastrophic bearing failure on the motor and needed to be repaired a second time.

The number two pump was returned on January 10, 2019. This pump failed again on January 27, 2019. Once again taken to Austin Armature for troubleshooting it was found that the pump had a large break in one of the main power cables, this section of cable unfortunately was under water and allowed water to get into the motor causing bearing and catastrophic motor failure which required a rewinding of the motor along with new bearings to help with the pump vibration the impeller was trimmed on this pump from 550 mm to 450 mm to allow the pump to properly operate. This pump was returned on February 28, 2019 and has been installed and running since that day.

Pump #1 was returned on February 6, 2019 and was installed that same day. The pump failed on February 8, 2019. With the failures of the pumps returning from Austin Armature the



decision was made to seek another repair venue, Hamilton Electric who has done this work for us in the past was unable to accommodate this work in our needed timeframe. The pump was sent to Shermco Industries in Cedar Park, It was discovered that this unit would also require a rewind on its motor and to have the impeller trimmed. The work is continuing in the shop on this pump. The failures of these pump led to more investigation into the multiple failures, it was found that these pumps were originally specified to pump 5,797 gpm at over 90 feet of head, however the operating condition had changed and with these changes the system now runs at 5,797 gpm at 30 feet of head. These pumps were operating out of range and with the last repairs having the impellers trimmed should allow these pumps to run until their replacements have been installed.

2. The following services requires purchasing cost:

Three repairs with Austin Armature totaling \$149,457.40, one repair with Shermco Industries totaling \$ 43,797.00

3. What City Utility purchasing process procedures were not followed and for what reason:

Due to the priority and for the protection of the environment and the health safety concerns for the citizens of the City of Austin that could arise from an approximate spill of over 5,000,000 gallons per day of raw wastewater flowing into the Colorado River. The competitive bidding process was bypassed to quickly repair the pumps for this lift station as needed.



Ellery Studivant,
Division Manager, Treatment



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Invoice

Customer Number

000222

Invoice Number

SRI5700

Contact

Allen Reich

Order Date

11/28/2018

Shipped Date

1/31/2019

Invoice Date

1/31/2019

Bill To

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via

ID A7026

Terms

Net 30

Received By

Make FLYGT

Customer PO

Original Order #

SR6418

Required Work

- Incoming test/ inspection
- Disassembly
- Teardown and inspection report
- Recondition motor and hydraulic system
- Dip and bake stator
- Replace all bearings
- Repair bearing cap
- Balance rotor
- Balance rotor with impeller
- Replaced seals
- Replace oil with Crystal Plus 200FG
- Coat pump with Carboguard 891 grey
- Test with final report

Product ID	Qty	Ship	Description	Sales Price	Total
617 99 02	1	1	SEAL, MECHANICAL WCCRWCOR	5,344.53	5,344.53
82 73 29	1	1	STRIP, SEALING WOOL FELT	26.40	26.40
374 57 00	1	1	WASHER, STEEL	156.93	156.93
82 74 89	1	1	O-RING 179 3X5 7 NBR	27.87	27.87
82 75 06	1	1	O-RING 359 3X5 7 NBR	44.00	44.00
82 48 61	1	1	WASHER, LOCK-SPLIT 8 2MM ID SS	4.40	4.40
82 48 63	1	1	WASHER, LOCK-SPLIT 10 2MM ID SS	3.52	3.52

Subtotal:

Freight:

Other:

0.0000 % Sales Tax 1:

0.0000 % Sales Tax 2:

Total:

Charge Card

Exp Date

Our Tax ID

Your Tax ID



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Invoice

Customer Number

000222

Invoice Number

SRI5700

Contact

Allen Reich

Order Date

11/28/2018

Shipped Date

1/31/2019

Invoice Date

1/31/2019

Bill To

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via	Terms	Received By	Customer PO	Original Order #
	Net 30			SR6418
82 48 65	4 4	WASHER, LOCK-SPLIT 12.2MM ID SS	3.37	13.47
82 48 68	1 1	WASHER, LOCK-SPLIT 16.2MM ID SS	38.13	38.13
82 73 29	1 1	STRIP, SEALING WOOL FELT	26.40	26.40
82 73 91	2 2	O-RING 22 2X3 0 NBR	3.52	7.03
82 74 06	1 1	O-RING 69 2X5.7 NBR	7.03	7.03
82 74 07	1 1	O-RNG 74 2X5 7 NBR	7.92	7.92
82 74 89	1 1	O-RING 179 3X5 7 NBR	27.87	27.87
82 74 91	3 3	O-RING 189 3X5 7 NBR	26.40	79.20
82 74 97	1 1	O-RING 239 3X5 7 NBR	36.67	36.67
82 75 06	1 1	O-RING 359 3X5 7 NBR	44.00	44.00
82 75 13	1 1	O-RING 499 3X5 7 NBR	61.60	61.60
82 78 95	1 1	O-RING 580 0X8 0 NBR	92.40	92.40
82 78 97	1 1	O-RING 594 0 X 8 7 NBR	115.87	115.87

Subtotal:

Freight:

Other:

0.0000% Sales Tax 1:

0.0000% Sales Tax 2:

Total:

Charge Card

Exp Date

Our Tax ID

Your Tax ID



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Invoice

Customer Number

000222

Invoice Number

SR15700

Contact

Allen Reich

Order Date

11/28/2018

Shipped Date

1/31/2019

Invoice Date

1/31/2019

Bill To

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via

Terms

Received By

Customer PO

Original Order #

Net 30

SR6418

Part Number	Qty	Unit	Description	Unit Price	Total Price
83 38 94	1	1	SPRING, DISC STEEL	35.20	35.20
84 35 32	1	1	GROMMET, CR 15ID 35OD 22L	27.87	27.87
84 35 33	1	1	GROMMET, CR 17ID 35OD 22L	26.40	26.40
84 35 34	1	1	GROMMET, CR 19ID 35OD 22L	30.80	30.80
84 35 35	1	1	GROMMET, CR 21ID 35OD 22L	24.93	24.93
370 66 02	1	1	SEAL, MECHANICAL WCCR/WCCR	15,001.07	15,001.07
82 73 90	1	1	O-RING 19 2X3 0 NBR	3.08	3.08
82 74 08	1	1	O-RING 79 2X5 7 NBR	8.50	8.50
82 75 13	1	1	O-RING 499 3X5 7 NBR	61.60	61.60
82 77 14	1	1	O-RING 24 2X5 7 NBR	7.63	7.63
82 77 78	1	1	O-RING 43 0X5 0 NBR	7.92	7.92
82 82 61	1	1	RETAINER, GREASE	121.73	121.73
84 53 71	1	1	BEARING, ROLLER CYL SNGL ROW 150X70X35MM, 25X25MM, NU314ECP	388.67	388.67

Subtotal:

Freight:

Other:

0.0000 % Sales Tax 1:

0.0000 % Sales Tax 2:

Total:

Charge Card

Exp Date

Our Tax ID

Your Tax ID



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Invoice

Customer Number

000222

Invoice Number

SRI5700

Contact

Allen Reich

Order Date

11/28/2018

Shipped Date

1/31/2019

Invoice Date

1/31/2019

Bill To

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via

Terms

Received By

Customer PO

Original Order #

Net 30

SR6418

Item #	Qty	Unit	Description	Price	Total
82 22 45	1	1	NUT, ROUND KM 20 STEEL	117.33	117.33
82 51 45	1	1	WASHER, LOCK-TAB 100MM ID STEEL	38.13	38.13
666 69 00	1	1	BEARING, ROLLR UNIT SNGL ROWCYL 180X100X34MM NJ226ECP	869.73	869.73
373 66 00	1	1	RING, SPACER STEEL	734.80	734.80
412 02 00	1	1	WASHER, STEEL	283.07	283.07
83 36 17	1	1	BEARING, BALL ANG CONT SNGL ROW W15X100X47MM, 7320BE	1,089.73	1,089.73
80 78 99	1	1	KEY, PARALLEL 20X12X100MM SS	102.67	102.67
82 51 45	1	1	WASHER, LOCK-TAB 100MM ID STEEL	38.13	38.13
82 82 61	1	1	RETAINER, GREASE	121.73	121.73
82 78 92	2	2	O-RING 529 3X5 7 NBR	77.73	155.47
Freight	1	1	Prepaid and Add to Invoice	1,085.00	1,085.00
373 66 00	1	1	COVER, BEARING CL	1,837.73	1,837.73
0400-00108	6	6	Copper Split Bolt 2 Sol - 3/0 Str	10.95	65.70

Subtotal:

Freight

Other

0.0000 % Sales Tax 1

0.0000 % Sales Tax 2

Total:

Charge Card

Exp Date

Our Tax ID

Your Tax ID



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Invoice

Customer Number 000222	Invoice Number SRI5700		
Contact Allen Reich	Order Date 11/28/2018	Shipped Date 1/31/2019	Invoice Date 1/31/2019

Bill To
 CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To
 AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via	Terms	Received By	Customer PO	Original Order #
	Net 30			SR6418
OIL, CP200FG, MINERAL	4	4	Mineral Oil, Food Grade Crystal Plus Oil 200FG	39 00
Labor	1	1		11,439 30
				158 00
				11,439 30

	Subtotal:	40,045.16
	Freight:	0.00
	Other:	0.00
	0.0000 % Sales Tax 1:	0.00
	0.0000 % Sales Tax 2:	0.00
	Total:	40,045.16

Our Tax ID

Your Tax ID



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Proforma Invoice

Customer Number 000222 Order Date 12/28/2018 Ship Date Invoice Number SR6470

Bill To:

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST. STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To:

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via Customer Pickup Terms Net 30 Salesperson Charles Moore Jr Customer PO Contact Jim Dias

ID A6933 HP Unit HP ODE Brg# NJ220, 314W
 Make Flygt RPM 890 DE Brg# 73208
 Model 3311 640-5287 Rated V. 480 # of Phases 3
 Serial # 8630301 Rated A. 210 Frequency (Hz) 60
 Rating 177

Product ID	Qty	Ship Weight	Description	Sales Price	Total
617 99 02	1	1	SEAL,MECHANICAL WCCR/WCCR	5,344.53	5,344.53
374 57 00	1	1	WASHER,STEEL	156.93	156.93
82 74 89	1	1	O-RING 179.3 X 5.7 NBR	26.40	26.40
82 73 29	1	1	STRIP,SEALING WOOL FELT	36.00	36.00
82 78 95	1	1	O-RING 580.0 X 8.0 NBR	92.40	92.40
82 75 13	1	1	O-RING 499.3 X 5.7 NBR	61.60	61.60
370 66 02	1	1	SEAL,MECHANICAL WCCR/WCCR	15,001.07	15,001.07
82 73 90	1	1	O-RING 19.2 X 3.0 NBR	3.08	3.08
82 74 08	1	1	O-RING 79.2 X 5.7 NBR	8.50	8.50
82 75 13	1	1	O-RING 499.3 X 5.7 NBR	61.60	61.60

*A Restocking Fee May Apply on Returns
 There will be a 1.5% interest charge per month on late invoices.*

Subtotal: 57,787.00
 Freight: 0.00
 Other: 0.00
 0.0000 % Sales Tax 1: 0.00
 0.0000 % Sales Tax 2: 0.00
 Total: 57,787.00

Charge Card Exp Date

Customer Signature: _____

Date: _____

Printed Name: _____

Total Weight: 8



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Proforma Invoice

Customer Number: 000222 Order Date: 12/28/2018 Ship Date: Invoice Number: SR6470

Bill To:

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST. STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To:

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via: Customer Pickup Terms: Net 30 Salesperson: Charles Moore Jr Customer PO: Contact: Jim Dias

ID A6933 HP Unit HP ODE Brg# NJ220, 314W
 Make Flygt RPM 890 DE Brg# 7320B
 Model 3311.840-5287 Rated V. 460 # of Phases 3
 Serial # 8630301 Rated A. 210 Frequency (Hz) 60
 Rating 177

Product ID	Qty	Ship Weight	Description	Sales Price	Total
82 77 14	1	1	O-RING 24.2 X 5.7 NBR	7.63	7.63
82 77 78	1	1	O-RING 43.0 X 5.0 NBR	7.92	7.92
82 22 45	1	1	NUT,ROUND KM 20 STEEL	117.33	117.33
82 51 45	1	1	WASHER,LOCK-TAB 100MM ID STEEL	38.13	38.13
866 69 00	1	1	BEARING,ROLLR UNIT SNGL ROWCYL	869.73	869.73
82 75 06	1	1	O-RING 359.3 X 5.7 NBR	44.00	44.00
83 36 17	1	1	BEARING,BALL ANG CONT SNGL ROW	1,089.73	1,089.73
82 82 61	1	1	RETAINER,GREASE	121.73	121.73
84 53 71	1	1	BEARING,ROLLER CYL SNGL ROW 150X70X35MM,25X25MM, NU314ECP	388.67	388.67
82 78 92	2	2	O-RING 529.3 X 5.7 NBR	77.73	155.46

*A Restocking Fee May Apply on Returns
 There will be a 1.5% interest charge per month on late invoices.*

Subtotal: 57,787.00
 Freight: 0.00
 Other: 0.00
 0.0000 % Sales Tax 1: 0.00
 0.0000 % Sales Tax 2: 0.00
 Total: 57,787.00

Charge Card Exp Date

Customer Signature: _____

Date: _____

Printed Name: _____

Total Weight: 8



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Proforma Invoice

Customer Number 000222 Order Date 12/28/2018 Ship Date Invoice Number SR6470

Bill To:

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 825 E. 10TH ST. STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To:

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via Customer Pickup	Terms Net 30	Salesperson Charles Moore Jr	Customer PO	Contact Jim Dias
------------------------------------	------------------------	--	--------------------	----------------------------

ID A6933	HP Unit HP	ODE Brg# NJ220, 314W
Make Flygt	RPM 890	DE Brg# 7320B
Model 3311.840-5287	Rated V. 460	# of Phases 3
Serial # 8630301	Rated A. 210	Frequency (Hz) 60
Rating 177		

Product ID	Qty	Ship Weight	Description	Sales Price	Total
Freight	1	1	SHIPPING AND HANDLING-NO	705.00	705.00
nu314ecp	1	1	NU314ECP Roller Bearing	261.26	261.26
7320BEP	1	1	7320BEP Thrust bearing	458.85	458.85
1/0-3 TYPEG	186	186	1/0-3 TYPEG-GC CABLE	20.83	3,874.99
NJ220	1	1	NJ220RC3FY / KOYO	461.09	461.09
MBRTD-I-P-S	1	1	BEARING RTDs PT100	98.92	98.92
OIL, CP200FG, MINERAL	8	8	Mineral Oil, Food Grade Crystal Plus Oil 200FG	39.00	312.00
0400-00108	4	4	Copper Split Bolt 2 Sol - 3/0 Str	10.95	43.80
0400-00107	3	3	Copper Split Bolt 2 Sol - 2/0 Str	0.00	0.00
	1	1	Labor and Materials	27,938.65	27,938.65

*A Restocking Fee May Apply on Returns
 There will be a 1.5% interest charge per month on late invoices.*

Subtotal	57,787.00
Freight	0.00
Other	0.00
0.0000 % Sales Tax 1	0.00
0.0000 % Sales Tax 2	0.00
Total	57,787.00

Charge Card Exp Date

Customer Signature: _____

Date: _____

Printed Name: _____

Total Weight: 8



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Proforma Invoice

Customer Number: 000222 Order Date: 12/28/2018 Ship Date: Invoice Number: SR6470

Bill To:

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To:

AUSTIN, CITY OF - WATER UTILITY
 Attn: Art Hernandez
 1017 Fallwell Lane
 DEL VALLE, TX 78617

Ship Via	Terms	Salesperson	Customer PO	Contact
Customer Pickup	Net 30	Charles Moore Jr		Jim Dias

ID A6933	HP Unit HP	ODE Brg# NJ220, 314W
Make Flygt	RPM 890	DE Brg# 7320B
Model 3311 840-5287	Rated V. 460	# of Phases 3
Serial # 8630301	Rated A. 210	Frequency (Hz) 60
Rating 177		

Product ID	Qty	Ship Weight	Description	Sales Price	Total
Required Work:					
			Incoming test/ inspection		
			Disassembly		
			Teardown and inspection report		
			Recondition motor and hydraulic system		
			Dip and bake stator		
			Replace all bearings		
			Manufacture new wear rings		
			Balance rotor		
			Balance rotor with impeller		
			Replaced seals		
			Replace oil with Crystal Plus 200FG		
			Coat pump with Carboguard 891 grey		
			Test with final report		

A Restocking Fee May Apply on Returns
 There will be a 1.5% interest charge per month on late invoices.

Subtotal: 57,787.00
 Freight: 0.00
 Other: 0.00
 0.0000 % Sales Tax 1: 0.00
 0.0000 % Sales Tax 2: 0.00
 Total: 57,787.00

Charge Card Exp Date

Customer Signature: _____

Date: _____

Printed Name: _____

Total Weight: 8



Austin Armature Works, LP
 496 Commercial drive, Buda, TX 78610
 Phone (512)312 0088 Fax (512)312 0988

Invoice

Customer Number

000222

Invoice Number

SR15754

Contact

Order Date

1/29/2019

Shipped Date

2/28/2019

Invoice Date

2/28/2019

Bill To

CITY OF AUSTIN - WATER UTILITY
 Attn: ACCTS PAYABLE
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship To

CITY OF AUSTIN - WATER UTILITY
 PURCHASING SECTION
 625 E. 10TH ST, STE 500
 AUSTIN, TX 78701
 (512) 972-0313 x

Ship Via

Terms

Net 30

Received By

Customer PO

Original Order #

SR6531

ID A7026

Make FLYGT

Rating 177

HP Unit HP

RPM 890

Rated V. 460

Rated A. 210

of Phases 3

Frequency (Hz) 60

Required Work

- Incoming test/ inspection
- Disassembly
- Teardown and inspection report
- Dip and bake stator
- Repair DE and ODE journal
- Dynamically balance rotor
- Replace power cables
- Repair bearing cap
- Trim impeller to 440mm
- Assembly with new bearings, seals, gaskets, and paint
- Test run and record Volts and Amps
- Final inspection

Product ID	Qty	Ship	Description	Sales Price	Total
	1	1	Labor and Materials for work described	51,625.24	51,625.24

Reason for Repair

Cable is cut and needs replacing

A Restocking Fee May Apply on Returns

There will be a 1.5% interest charge per month on late invoices.

Subtotal:	51,625.24
Freight:	0.00
Other:	0.00
0.0000 % Sales Tax 1:	0.00
0.0000 % Sales Tax 2:	0.00
Total	51,625.24

Charge Card

Exp Date

Our Tax ID

Your Tax ID