



**Bid Number 50-132236**

**Purchase of sodium hypochlorite pumps for the Jefferson Parish  
Sewerage Department**

**September 25, 2020 at 11:00 am**

**ATTENTION VENDORS!!!**

**Please review all pages and respond accordingly, complying with all provisions  
in the technical specifications and Jefferson Parish Instructions for Bidders and  
General Terms and Conditions. All bids must be received in the Purchasing  
Department by the bid due date and time.**

**Jefferson Parish Purchasing Department  
200 Derbigny Street  
General Government Building, Suite 4400  
Gretna, LA 70053  
Buyer Name: Rae Lynn Hartman  
Buyer Email: rscott@jeffparish.net  
Buyer Phone: 504-364-2688**

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

DATE: 9/18/2020

BID NO.: 50-00132236

**JEFFERSON PARISH**  
PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT@jeffparish.net

**Bids will be received until 11:00 AM, 9/25/2020 via online at [www.jeffparishbids.net](http://www.jeffparishbids.net) or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only.**

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at [purchasing.jeffparish.net](http://purchasing.jeffparish.net) and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Vendors may experience a delay in payment if your company is not a registered vendor with Jefferson Parish.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

**IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS**

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at [www.jeffparishbids.net](http://www.jeffparishbids.net) to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

**ADDITIONAL REQUIREMENTS FOR THIS BID**

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

13

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Failure to comply with this instruction will result in bid rejection.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to JPCO 2-155.10(19). By signing this document, every corporation, partnership, or person contracting with PARISH, whether by cooperative endeavor, intergovernmental agreement, bid, proposal, application or solicitation for a parish contract, and every application for certification of eligibility for a parish contract or program, attests that it understands and will abide by all provisions of JPCO 2-155.10.

DATE: 9/18/2020

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00132236

**JEFFERSON PARISH**  
PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

<b>DELIVERY: FOB JEFFERSON PARISH</b>	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	<u>3-4 WEEKS</u>
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	_____
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	_____

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_  
NUMBER: \_\_\_\_\_

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) \_\_\_\_\_

<b>*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***</b>	
FIRM NAME:	<u>Fluid Process &amp; Pumps</u>
SIGNATURE: (Must be signed here)	<u>Bill Bloom</u>
PRINT OR TYPE NAME:	<u>Bill Bloom</u>
ADDRESS:	<u>P.O. Box 10608</u>
CITY, STATE:	<u>NEW ORLEANS LA.</u>
TELEPHONE:	<u>(504) 733-1330</u>
TITLE:	<u>SALES</u>
FAX:	<u>(504) 736-9348</u>
EMAIL ADDRESS:	<u>BB @ FluidProcess.NET</u>

TOTAL PRICE OF ALL BID ITEMS: \$ 10,634.00

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00132236

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	2.00	EA	<p>Purchase of sodium hypochlorite pumps for the Jefferson Parish Sewerage Dept</p> <p>0010 - SEEPEX SODIUM HYPOCHLORITE PUMP MODEL MD025-12T, WITH TITANIUM ROTOR, SHAFT SEAL CASING MATERIAL AND DRIVEN BY A 1/2 HP, 115/1/60 AC ASYNCHRONOUS MOTOR WITH BUILT IN VFD FOR THE BRIDGE CITY WASTEWATER TREATMENT PLANT</p> <p>SEE SPECIFICATIONS</p> <p>DELIVER TO: PUBLIC WORKS WAREHOUSE 1500 RIVER PARK ROAD BRIDGE CITY, LA 70094 ATTN: RYAN BOUDREAUX</p>	5,317.00	10,634.00

**SPECIFICATIONS  
SODIUM HYPOCHLORITE PUMPS  
JEFFERSON PARISH DEPT. OF SEWERAGE  
BRIDGE CITY WASTEWATER TREATMENT PLANT**

**PART 1. GENERAL:**

- A. The bidder shall furnish two (2) Seepex Model MD025-12T Sodium Hypochlorite pumps, or approved equal. The pumps shall be supplied by the factory authorized Seepex pump agent for Jefferson Parish, Louisiana, or for the brand they are bidding. Any bids submitted for alternate pump manufacturers must include in their bid all information needed to fully demonstrate complete hydraulic, electrical, and dimensional compliance with the requirements of these specifications and the existing pumps. It will be the bidder's responsibility to provide adequate information necessary for complete evaluation of their proposed equipment. Should bidder not supply adequate information, Jefferson Parish reserves the right to reject the bid. Jefferson Parish shall be the sole judge as to the equality of the alternate manufacturer's offering. The proposed pump must match the existing Seepex pump dimensions, such that no piping changes will be required to install the new pump. Jefferson Parish reserves the right to cancel any bids that are incomplete, or do not demonstrate that they are equal to the requirement of these specifications.

**1.2 QUALITY ASSURANCE:**

The supplier shall submit manufacturer's standard warranty for equipment to be furnished, in accordance with this section. The warranty for workmanship and materials shall be manufacturer's standard for 1 year from startup. Pumps shall be supplied by a factory authorized distributor who maintains a factory authorized warranty service center within one (1) hour of the project site. The pump supplier shall provide field start up service for these pumps. Supplier is to make a site visit for startup and commissioning of this equipment. The pump supplier shall make their service center available to Jefferson Parish for their inspection and evaluation when requested.

**PART 2. PRODUCT:**

**2.1 MANUFACTURER:**

- A. Pumps shall be Seepex Model MD025-12T Sodium Hypochlorite pumps, or approved equal. The pumps shall be quoted by the factory authorized Seepex pump agent for Jefferson Parish, Louisiana or for the brand they are bidding. The pumps shall match up to and utilize the existing conditions at the treatment plant. Any bids submitted for alternate pump manufacturers other than Seepex, Inc. must include in their bid all information needed to fully demonstrate complete hydraulic, physical, and electrical compliance. It will be the bidder's responsibility to provide adequate information

necessary for complete evaluation of their proposed equipment. Jefferson Parish shall be the sole judge as to the equality of the alternate manufacturer's offering. Jefferson Parish reserves the right to reject any bids that are incomplete or do not demonstrate that they are equal to the requirements of these specifications.

- B. An extensive parts inventory shall be maintained by the manufacturer such that all pump parts are available for delivery during the life expectancy of the pump. Upon request by the owner, the bidder shall provide allow the Owner to view their parts inventory to verify this requirement.

## 2.2 PUMP CONSTRUCTION:

- A. The pumping units shall be of the positive displacement, progressing cavity type specifically designed for pumping sodium hypochlorite solutions, as specified. Pumps shall be specifically designed and selected for continuous duty pumping of sodium hypochlorite with the following properties: Percent Concentration - 12.5 percent.
- B. The pumps shall be of the compact, close-coupled design. The gear reducer shall be sized for a minimum service factor of 1.5 and designed with a thrust load capability of 150 percent of the actual thrust load.
- C. ROTOR AND STATOR: Each pump shall be a minimum two-stage design, employing a convoluted rotor operating in a similarly convoluted stator. The convolutions shall be configured to form a cavity between the rotor and stator, which shall progress from the pump's inlet to discharge port with the operation of the rotor. The fit between the rotor and stator at the point of contact shall compress the stator material sufficiently to form a seal and to prevent leakage from the discharge back to the inlet end of the pumping chamber. The stator shall be moulded with a seal integral to the stator elastomer, preventing the metal stator tube and the bonding agent from the elastomer from contacting the pumped liquid. Gaskets or "O" rings may not be used to form this seal. Stators for sodium hypochlorite pumps shall have EPDM elastomer. **The sodium hypochlorite pump rotors shall be constructed of titanium.**
- D. ROTOR AND DRIVE TRAIN: The rotor drive train shall be warranted for one (1) year from acceptance and shall consist of the following:
  - E. Each pump rotor shall be driven through a positively sealed and lubricated pin joint. The pin shall be constructed of high speed steel, air hardened to 60-65 HRc. The joint shall be grease lubricated with a high temperature (450° Fahrenheit), PTFE filled synthetic grease, covered with EPDM sleeve, and positively sealed with hose clamps constructed of Hastelloy. **The shaft under the mechanical seal shall be constructed of titanium.**

F. CASING: NPT connections shall be provided at both the inlet and discharge ports. Casings shall be constructed of high-density polyethylene (HDPE).

G. SHAFT SEALS AND BEARINGS: Shaft shall be sealed using a single-acting mechanical seal constructed of EPDM elastomers, silicon carbide, or ceramic faces, and titanium metal parts. The shaft shall be solid through the mechanical seal area, but of a two part design which allows the mechanical seal and all other wetted rotating parts to be removed from the pump without disassembly of the pump or gear motor (if required) bearings. Bearings shall be located in the motor or gear motor as required and shall be designed to adequately withstand all radial and thrust loads imposed by the pump at the service conditions. Material components shall be 1). Rotor – Titanium, 2). Stator - EPDM, 3). Pump Body – HDPE, 4). Shaft – Titanium, 5). Mechanical Seal – John Crane Type 1 with Titanium Metal Parts.

**2.3 OPERATING CONDITIONS**

The progressing cavity pumps shall have the following operating characteristics:

Equipment Service	Rated Capacity, gpm (gph)	Differential Pressure psi	Maximum/minimum pump speed, rpm	Suction and discharge port size, NPT – in	Minimum motor hp	Drive
<b>Feed Pump #1</b>						
High Flow	1.53 (92)	65	350	Suction 1	0.5	AC Motor With Integral Controller
Low Flow	0.2 (12)	65	58	Discharge ½"		

**2.4 MOTOR AND DRIVE UNIT**

AC MOTOR WITH INTEGRAL VARIABLE DRIVE: Motor shall be ½ Hp, 20 to 600 rpm gear motor, TEFC High Efficiency, 115V 60Hz with power cord. The controller housing shall be NEMA 4 and integral to the motor. **The integral motor/controller shall have a minimum 6 Ft. cord with AC plug, single phase, 115 VAC, and be**

**designed for up to a 30:1 turndown without an encoder.** The controller shall have the following as a minimum: 10-turn speed potentiometer and HOA switch. In addition, the controller shall have the following Turk FP-5 connection inputs: 4-20mA control signal, AC flow switch, and AC pressure switch. Separate DC control units and motors will NOT be accepted.

#### **2.5 SURFACE PREPARATION:**

Supplier shall prepare pumps with their standard finish.

#### **2.6 SERVICE:**

The pump supplier shall have an authorized factory service center capable of completely servicing the proposed pumps within one (1) hour of project site. The pump supplier shall have a direct factory service center/stocking facility capable of completely servicing and spare parts for the proposed pumps, within one (1) hour of project site. The pump supplier shall make their service center available to Jefferson Parish for their inspection and evaluation when requested.