COUNTY OF ROCKLAND Department of General Services **Purchasing Division**

Contract Award Notification

Title:	Pumps-Inspection, Overhaul, Rewind & Repair Services
Contract Period:	April 28, 2022 through April 27, 2023 w/ 4 one-year options Extended through April 27, 2024, w/ (3) one-year options
Original Date of Issue:	March 21, 2022
Date of Revision:	March 16, 2023
BID No:	RFB-RC-2022-030
PRC #:	2022000537
Catalog:	Wastewater Treatment
Authorized Users:	Rockland County Sewer District #1
	Address Inquiries To:
Name: Title: Phone: Fax: E-mail:	Ann Marie Curley, NIGP-CPP, CPPB Assistant Director of Purchasing 845-364-3698 845-364-3809 <u>curleya@co.rockland.ny.us</u>

Description This contract is for the inspection, overhaul, rewind and repair of pumps.

Contract #	Vendor Number	Contractor & Address	Telephone No.
BID 22-030	000007507	Universal Electric Motor Service	201-968-1000, Ext. 16
		131 South Newman Street	
		Hackensack, NJ 07601	CELL: 201-723-1951
		Contact: Stephen Stagg	
		sstagg@uemotor.com	FAX: 201-968-0564

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. HOURS	UNIT	HOURLY PRICE	EXTENDED PRICE
	SECTION ONE LABOR RATES					
ABOR RA	TES FOR TIME AND MATERIAL WORK FOR ANY TYPE O	R STYLE OF SEWAGI	E PUMP			
0	rates shall be binding for the entire contract term. Labor costs to be l	billed at the following rate	es based on the time labo	orer arrives at and depa	arts from the Rockland County job site	e and for in-shop repair work. Please see the
ttached spe	cifications for work to be performed.					
	Electrical mechanical service person labor rates for Field and In	1-Shop Work – NO TRA	VEL TIME			
1	Labor Rates for Monday to Friday to remove and/or install	93662010102	1	HOUR	\$120.00	\$120.00
	equipment from and to appropriate District Processes - 7:00 AM - 4:00 PM - SUBJECT TO NYS PREVAILING WAGE RATES					
2	Labor Rates for Monday to Friday 7:00 AM to 3:30 PM	93662010001	2527	HOUR	\$20.00	\$50,540.00
3	Labor Rates for Monday to Friday 3:30 PM to 12:00 Midnight	93662010002	1	HOUR	\$20.00	\$20.00
4	Labor Rates for Monday to Friday 12:00 Midnight to 7:00 AM	93662010003	1	HOUR	\$20.00	\$20.00
5	Labor Rates for Saturday 7:00 AM to 3:30 PM	93662010004	1	HOUR	\$20.00	\$20.00
6	Labor Rates for Saturday 3:30 PM to 12:00 Midnight	93662010005	1	HOUR	\$20.00	\$20.00
7	Labor Rates for Saturday 12:00 Midnight to 7:00 AM	93662010006	1	HOUR	\$20.00	\$20.00
8	Labor Rates for Sunday 7:00 PM to 3:30 PM	93662010007	1	HOUR	\$20.00	\$20.00
9	Labor Rates for Sunday 3:30 PM to 12:00 Midnight	93662010008	1	HOUR	\$20.00	\$20.00
10	Labor Rates for Sunday 12:00 Midnight to 7:00 AM	93662010009	1	HOUR	\$20.00	\$20.00
11	Holiday	93662010010	1	HOUR	\$20.00	\$20.00
12	Total extended price for items 1 - 11			TOTAL		\$50,840.00
13	Total extended price for item 1 -11 written out			Fifty Thousand Eig	ht Hundred Fourty and XX/100	

PUMPS – INSPECTION, OVERHAUL, MOTOR REWIND AND REPAIR

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

VENDOR: UNIVERSAL ELECTRIC MOTOR SERVICE

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. HOURS	UNIT	HOURLY PRICE	EXTENDED PRICE
	SECTION TWO - % MARKUP					
14	MATERIAL MARK-UP:	93662010011	ESTIMATED	PERCENT	15%	\$97,750.00
	Percent mark-up shall be added to invoice for any parts and		DOLLARS	MARK-UP NOT TO		
	materials which may be purchased in conjunction with repairs.		EXPENDED	EXCEED 20%		
			\$ 85,000.00			
PLEASE N	OTE THE FOLLOWING INFORMATION FOR ITEMS 14 :					
THE ESTI	THE ESTIMATED DOLLARS BY THE MARK-UP PERCENT. THIS AMOUNT IS THEN ADDED TO THE ESTIMATED DOLLARS TO ARRIVE AT THE TOTAL ESTIMATED DOLLARS TO BE EXPENDED					
FOR MAT	FOR MATERIAL. THE TOTAL ESTIMATED DOLLARS SHALL BE USED FOR THE BID EVALUATION					

UNIT PRICE EXTENDED PRICE \$200.00 \$200.00
\$200.00
\$200.00
\$200.00
\$200.00
\$200.00
\$200.00
\$200.00
\$200.00
\$200.00
\$900.00
\$700.00
\$100.00
\$200.00
\$1,200.00
\$100.00

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

LINE NO.	DESCRIPTION	ITEM NUMBER	UNIT	UNIT PRICE	EXTENDED PRICE	
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 21-30 HORSE POWER					
21	21-30 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030019	INSPECTION	\$200.00		
22	21-30 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030020	OVERHAUL	\$1,300.00		
23	21-30 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030022	MOTOR REWIND	\$100.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 31-50 HORSE POWER					
24	31-50 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030023	INSPECTION	\$300.00		
25	31-50 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030024	OVERHAUL	\$1,200.00		
26	31-50 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030025	MOTOR REWIND	\$100.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 51-75 HORSE POWER					
27	51-75 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030026	INSPECTION	\$300.00		
28	51-75 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030027	OVERHAUL	\$3,000.00		
29	51-75 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030028	MOTOR REWIND	\$100.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 76-100 HORSE POWER					
30	76-100 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030029	INSPECTION	\$300.00		
31	76-100 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030030	OVERHAUL	\$3,400.00		
32	76-100 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030031	MOTOR REWIND	\$300.00		

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

LINE NO.	DESCRIPTION	ITEM NUMBER	UNIT	UNIT PRICE	EXTENDED PRICE	
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 101-150 HORSE POWER					
33	101-150 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030032	INSPECTION	\$200.00		
34	101-150 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030033	OVERHAUL	\$2,500.00		
35	101-150 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030034	MOTOR REWIND	\$200.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 151-201 HORSE POWER					
36	151-201 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030035	INSPECTION	\$2,000.00		
37	151-201 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030036	OVERHAUL	\$100.00		
38	151-201 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030037	MOTOR REWIND	\$100.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY SUBMERSIBLE SEWAGE PUMP BETWEEN 202-350 HORSE POWER					
	202-350 HORSE POWER SUBMERSIBLE PUMP INSPECTION	93662030038	INSPECTION	\$200.00		
-	202-350 HORSE POWER SUBMERSIBLE PUMP OVERHAUL	93662030039	OVERHAUL	\$1,700.00		
41	202-350 HORSE POWER SUBMERSIBLE PUMP MOTOR REWIND	93662030040	MOTOR REWIND	\$100.00		

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

LINE NO.	DESCRIPTION	ITEM NUMBER	UNIT	UNIT PRICE	EXTENDED PRICE	
	SECTION FOUR DRY PIT AND SELF PRIMING SEWAGE PUMPS					
FIRM PRIC	CE FOR INSPECTION, OVERHAUL, AND MOTOR REWIND (OF ANY SEWAGE PUI	MPS DRY PIT AND	SELF PRIMING DURI	NG TERM OF CONTRACT	
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 0-10 HORSE POWER					
42	0-10 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030042	INSPECTION	\$100.00		
43	0-10 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030043	OVERHAUL	\$1,400.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 11-20 HORSE POWER					
44	11-20 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030044	INSPECTION	\$300.00		
45	11-20 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030045	OVERHAUL	\$1,400.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 21-30 HORSE POWER					
46	21-30 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030046	INSPECTION	\$300.00		
47	21-30 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030047	OVERHAUL	\$1,800.00		

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

LINE NO.	DESCRIPTION	ITEM NUMBER	UNIT	UNIT PRICE	EXTENDED PRICE	
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 31-50 HORSE POWER					
48	31-50 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030048	INSPECTION	\$300.00		
49	31-50 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030049	OVERHAUL	\$1,600.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 51-75 HORSE POWER					
50	51-75 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030050	INSPECTION	\$500.00		
51	51-75 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030051	OVERHAUL	\$1,900.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 76-100 HORSE POWER					
52	76-100 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030052	INSPECTION	\$700.00		
53	76-100 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030053	OVERHAUL	\$2,600.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 101-150 HORSE POWER					
54	101-150 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030054	INSPECTION	\$700.00		
55	101-150 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030055	OVERHAUL	\$2,500.00		

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COUNTY OF ROCKLAND DGS – PURCHASING DEPARTMENT BLDG. A, 2ND FLOOR, 50 SANATORIUM ROAD POMONA, NY 10970 TELEPHONE NO.: 845-364-3820 FAX NO.: 845-364-3809

LINE NO.	DESCRIPTION	ITEM NUMBER	UNIT	UNIT PRICE	EXTENDED PRICE	
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 151-201 HORSE POWER					
56	151-201 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030056	INSPECTION	\$700.00		
57	151-201 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030057	OVERHAUL	\$3,000.00		
	FIRM PRICE FOR INSPECTION, OVERHAUL AND MOTOR REWIND FOR ANY DRY PIT AND SELF PRIMING SEWAGE PUMP BETWEEN 202-350 HORSE POWER					
58	202-350 HORSE POWER DRY PIT AND SELF PRIMING PUMP INSPECTION	93662030058	INSPECTION	\$500.00		
59	202-350 HORSE POWER DRY PIT AND SELF PRIMING PUMP OVERHAUL	93662030059	OVERHAUL	\$2,200.00		
	TOTALS FOR ALL SECTIONS				\$191,490.00	
60	TOTAL PUMP INSPECTION				\$8,000.00	
61	TOTAL PUMP OVERHAUL				\$33,700.00	
62	TOTAL MOTOR REWIND				\$1,200.00	
63	TOTAL EXTENDED LABOR PRICE FOR ITEM #'S 1 THRO	UGH 11			\$50,840.00	
64	TOTAL EXTENDED MATERIAL COST FOR ITEM #14				\$97,750.00	
65	TOTAL BID PRICE				\$191,490.00	

COUNTY OF ROCKLAND - DGS-PURCHASING BLDG. A., 2ND FLOOR, 50 SANATORIUM RD, POMONA, NY 10970 TELEPHONE: 845-364-3820 / TELEFAX: 845-364-3809

TITLE: PUMPS – INSPECTION, OVERHAUL, MOTOR REWIND AND REPAIR BID NUMBER: RFB-RC-2022-030

PURCHASES BY OTHER

LOCAL GOVERNMENTS, SCHOOL DISTRICTS, AND NON PROFIT AGENCIES

As per the New York State General Municipal Law, all political subdivisions of New York State are allowed to make purchases through the resulting contract(s). As per Rockland County Procurement Policy, Non Profit Agencies approved to participate in New York State's Contract Extension Program are authorized to make purchases through the resulting contract(s).

- 1. The County of Rockland shall make all contract award information available to other political subdivisions and non profit agencies through our website: <u>www.rcpurchasing.com</u>
- 2. Any other political subdivision or Rockland County non profit agency will issue purchase orders directly to vendors within the specified contract period referencing the County's contract and shall be liable for any payments due on such purchase orders; and shall accept sole responsibility for any payment due.
- 3. All purchases shall be subject to audit and inspection by the other political subdivisions and Rockland County nonprofit agencies for which the purchase was made.
- 4. No officer, board or agency of a county, town, village, or school district shall make any purchase through the County when bids have been received for such purchase by such officer, board or agency, unless such purchase may be made upon the same terms, conditions and specifications at a lower price through the County.
- 5. All Bidders shall be on notice that as a condition of the award of a County contract, the successful bidder shall accept the award of a similar contract with any other political subdivision in New York State and Rockland County non-profit agencies authorized to use New York State's contracts, if called upon to do so. A listing of approved Rockland County non-profit agencies is available on the Purchasing Division's website at www.rcpurchasing.com. The County, however, will not be responsible for any debts incurred by the participants pursuant to this or any other agreement.
- 6. Necessary deviations from the County's specifications in the award of a participant contract, whether such deviations relate to quantities, or delivery points shall be resolved between the successful bidder and the other political subdivisions and Rockland County non profit agencies.

COUNTY OF ROCKLAND - DGS-PURCHASING BLDG. A., 2ND FLOOR, 50 SANATORIUM RD, POMONA, NY 10970 TELEPHONE: 845-364-3820 / TELEFAX: 845-364-3809

TITLE: PUMPS – INSPECTION, OVERHAUL, MOTOR REWIND AND REPAIR BID NUMBER: RFB-RC-2022-030

SPECIFICATIONS

1. SCOPE

- 1.1. Contractor shall furnish all the necessary labor, materials and equipment for the service and repair of sewage pumps, ranging in horsepower from 1 to 350. Pumps are located at the Rockland County Sewer District #1 (RCSD#1) treatment plant at #4 Route 340, Orangeburg, NY, and all pump stations at various locations throughout Rockland County (see Schedule A).
- 1.2. RCSD#1 owns and operates various types of pumps which are included but not limited to the pumps listed in Schedule A.
 - 1.2.1. Rockland County and RCSD#1 may add pumps to be serviced during the term of this contract.

2. QUANTITIES AND BACKROUND

- 2.1. The contract currently in effect for this work is RFB-RC-2017-031 and was awarded in April 28, 2017 and is due to expire. As of December 1, 2021 the total value of Purchase Orders issued against this contract is \$716,562.00 for the service and repair of pumps.
- 2.2. The quantities listed in the specifications or bid proposal pages for the work to be provided during the first term of this contract and are only estimates. The Contractor is advised that work requested under this contract will be on an as-needed basis and that the County, at its sole discretion, shall have the right to increase or decrease the quantity of services to be provided.

3. **EXPERIENCE**

- 3.1. The apparent successful Bidder shall, upon request, submit to the County the following information relating to the Bidder's qualifications and competence to perform the specified work:
 - 3.1.1. Experience of the Bidder and his personnel performing similar work, in scope and magnitude, as specified herein.
 - 3.1.2. List at least three contracts, whether completed or currently in effect, of similar scope of services specified herein. (see experience certification form)
 - 3.1.3. List currently owned, essential equipment necessary to perform work under this contract including, but not limited to service vehicles, testing equipment, tools etc. (see equipment certification form)
- 3.2. The bidder shall show that he has available under his direct employment and supervision the necessary organization and facilities to properly fulfill all the services and conditions required under these specifications.
- 3.3. The contractor shall show that he has maintained an organization capable of performing the work specified herein, and that said organization has been in continuous operation for at least the past five years. Contractor shall submit the following information with bid:
 - 3.3.1. Years of operation.

COUNTY OF ROCKLAND - DGS-PURCHASING BLDG. A., 2ND FLOOR, 50 SANATORIUM RD, POMONA, NY 10970 TELEPHONE: 845-364-3820 / TELEFAX: 845-364-3809

TITLE:
PUMPS – INSPECTION, OVERHAUL, MOTOR
REWIND AND REPAIR

3.3.2. The names of the employees in the area responsible for this contract, their function in the company, title, and number of years of service with the contractor's firm.

BID NUMBER: RFB-RC-2022-030

- 3.3.3. The present address of the main operating office of this organization.
- 3.3.4. List sources of major replacement parts for the equipment specified herein. Indicate which of the above parts are available at your facilities.
- 3.3.5. Documentation indicating technical personnel experience (5 year minimum).
- 3.3.6. The Contractor shall use only skilled, competent, trained technical personnel having a minimum of five year's experience in maintaining all pumps similar to those in this specification. (It is not necessary for all the required experience to have been acquired with the contractor's firm). This experience shall include full working knowledge and troubleshooting skills pertaining to pump Contractor shall have a minimum of five (5) experienced technicians on staff capable of working on any of the pumps listed in this solicitation. Contractor shall complete and submit the Certification of Experience form located in these Bid Specifications, listing companies where he/she has performed similar work.
- 3.3.7. Contractor must have a 24-hour, 7 day a week staffed service number (answering machine, voice mail or beepers <u>not</u> permitted) to receive requests for repair service.

4. GENERAL SPECIFICATIONS

4.1. PUMP – REPAIRS

- 4.1.1. All Inspection Reports shall include a detailed description of the inspection, including a labor and material cost breakdown with part numbers and associated quantities of any recommended repair or replacement work.
- 4.1.2. Should it be determined that a part needs to be replaced or upon a decision made by RCSD#1 representative that a part can be repaired instead of replaced, the Contractor shall include this additional work in his Inspection Report along with a detailed cost breakdown on the labor and material to perform the additional work. The Contractor shall not begin repair work nor order parts without receiving the approval of the Inspection Report from RCSD#1. Upon approval the Contractor shall begin repair work.
- 4.1.3. The Contractor shall perform a shop test (as specified) upon the completion of the repair work and reassembly of each pump. Test Report shall be submitted to RCSD#1.
- 4.1.4. Detailed description of all completed repair work must accompany all invoices.
- 4.1.5. Detailed billings must be received by the county at least fifteen (15) days after completion of each repair.
- 4.1.6. All equipment is to be returned completed and ready for operation.
- 4.1.7. All electrical work at Rockland County Sewer District #1 shall be done by a Rockland County, New York licensed electrician.

Any alterations to this document made by the Offeror may be grounds for rejection of the proposal, cancellation of any subsequent award, or any legal remedies available to the County of Rockland.

COUNTY OF ROCKLAND - DGS-PURCHASING BLDG. A., 2ND FLOOR, 50 SANATORIUM RD, POMONA, NY 10970 TELEPHONE: 845-364-3820 / TELEFAX: 845-364-3809

TITLE:
PUMPS – INSPECTION, OVERHAUL, MOTOR
REWIND AND REPAIR

BID NUMBER: RFB-RC-2022-030

- 4.1.8. When Contractor is informed by the Rockland County Sewer District that emergency repair service is required, the Contractor must take whatever steps are necessary to expedite work.
- 4.1.9. The district may inspect the facilities of the apparent low bidder prior to award to determine their capacity to perform this work.
- 4.1.10. If at any time during the life of the contract the Contractor in the opinion of the owner fails to take all reasonable steps to expedite the work, the owner may unilaterally nullify the contract.
- 4.1.11. Upon completion of repair and re-installation, the pump equipment operation shall be comparable to that expected from the installation of new pumping equipment.
- 4.1.12. All bidders must submit a certificate of experience and certificate of equipment. Forms are attached to facilitate the bidder's compliance with these requirements.

4.2. WORK DESCRIPTION

- 4.2.1. Pick up pump (s) at the Rockland County Sewer District No. 1 main treatment facility or designated pumping station and transport to the repair facility via insured carrier. Vendor shall provide allequipment required to load and unload the equipment.
- 4.2.2. The repair facility shall be given 24 hours notice prior to required pickup time.
- 4.2.3. Return inspected and overhauled pump (s) to the Rockland County Sewer District No. 1 main treatment facility or designated pumping station via insured carrier. Delivery shall be made during normal work hours of 7:00 AM to 2:30 PM, Monday through Friday.
- 4.2.4. There shall be no charge to the County for the pickup or delivery of repaired equipment that do not require the contractor to remove and/or install the repaired equipment.
- 4.2.5. RCSD#1 may authorize the contractor to supply all labor, material and equipment to remove equipment from district processes and to supply all labor, material and equipment to necessary to re-install equipment to appropriate district processes.
 - 4.2.5.1. Work performed under this section is subject to New York State Labor Law 220, Article 8 Prevailing wages. The Contractor shall submit with, each invoice, certified payrolls for all labor. Submission of Certified Payroll with invoice is a condition of payment.
 - 4.2.5.2. Contractor shall supply a separate labor rate in accordance with the proposal pages for work under this section.
 - 4.2.5.3. Invoices for labor must be billed to the next quarter hour of actual time worked (example: 8:00 AM to 9:10 AM would be billed at 1 hour and 15 minutes). Invoices rounded to the next full hour will not be approved for payment.
 - 4.2.5.4. The County of Rockland will not accept nor authorize payment for travel time or expenses of service personnel to any of the County of Rockland's facility locations. The only billable time will be for service work performed.
 - 4.2.6. Contractor is responsible to ensure proper and appropriate training, safety procedures and

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COUNTY OF ROCKLAND - DGS-PURCHASING BLDG. A., 2ND FLOOR, 50 SANATORIUM RD, POMONA, NY 10970 TELEPHONE: 845-364-3820 / TELEFAX: 845-364-3809

	UMBER: RC-2022-030
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equipment are partr and parcel to the above items. Contractor is responsible for Lockout/Tagout and /or Confined Space entry as may be appropriate.

4.3. DRY PIT SEWAGE PUMPS - INSPECTION

- 4.3.1. PUMP INSPECTION (shaft driven): The unit price bid shall include all labor, material and supervision costs to perform the disassembly, inspection and compile a detailed inspection report. The inspection shall consist of the following:
 - 4.3.1.1. Completely disassemble the pump of all individual components, including all bearings, seals, impeller(s), and related parts, exercising care not to damage any parts. Measure and record all component dimensions and clearances as the pump is disassembled. The pump shaft is to be checked for straightness.
 - 4.3.1.2. Blast clean pump casing, volute, impeller, and other pump components. Bearing running surfaces or housing must be covered and protected against blast cleaning grit.
 - 4.3.1.3. Perform Non Destructive Examination of blast cleaned components. Acceptable methods are dye penetrate or magnetic particle. NDE shall be performed by qualified personnel certified in NDE procedures in accordance with the most recent ASME Boiler and Pressure Vessel Code, Section V Non Destructive Examination.
 - 4.3.1.4. The Contractor will provide a detailed inspection report to the Rockland County Sewer District for each unit that is inspected. The report is to be comprised of the following: all critical component dimensions, bearing fits, clearances, physical condition and NDE results. The report shall include an itemized listing of all recommended repair work and pricing.

4.3.2. DRY PIT SEWAGE PUMPS - PUMP OVERHAUL

- 4.3.2.1. The unit price bid for a standard overhaul shall include all labor material and supervision costs to repair the seal and bearing journals including all hardware fasteners (nuts, bolts, washers, keys, etc.) that are an integral part of the replacement item; reassemble, shop test, shop test report and return pump to the RCSD#1 location. The unit price bid shall include all costs to furnish and install the following parts/materials:
 - Mechanical Seals
 - Mechanical Seal Sleeves
 - Bearings, O-Rings, Gaskets, Snap Rings, Spacer Rings, Retaining Rings, Grommets
 - Overload devices
 - Oil
 - Exterior Painting (1 coat of PVC Epoxy Primer and 2 coats of Chloric rubber paint)
 - Impeller & Rotor balance (static and dynamic, including data sheet)
- 4.3.2.2. Assemble the pump (s) using the existing and authorized replacement parts.

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TITLE: PUMPS – INSPECTION, OVERHAUL, MOTOR REWIND AND REPAIR BID NUMBER: RFB-RC-2022-030

- 4.3.2.3. The unit shall be assembled as per manufacturer's assembly instructions.
- 4.3.2.4. Impeller (s) and pump shaft assemblies shall be statically and dynamically balanced. Any weight added to the impeller for balancing, shall be of the same material as the impeller and shall be secured by welding. No weight shall be added in the impeller passageways. The maximum limits for vibration of the assembled pump shall be kept within the limits as stated in the Hydraulic Institute Standards.
- 4.3.3. Note items 4.3.1 and 4.3.2.1 when developing your bid proposal.

4.4. BLOWERS AND COMPRESSORS

4.4.1. The inspection and overhaul procedures for the RBC Air Supply Blowers and the Digester Gas Mixing Compressors shall be comparable to the dry pit pump inspection and overhaul methods explained in sections 4.3.1. and 4.3.2.

4.5. ELECTRIC SUBMERSIBLE SEWAGE PUMPS - INSPECTION

- 4.5.1. PUMP INSPECTION (shaft driven): The unit price bid shall include all labor, material and supervision charges to perform the disassembly, inspection and compile a detailed inspection report. The inspection shall consist of the following:
 - 4.5.1.1. Electric submersible pumps shall be treated as a complete unit. The inspection will be of the power and control cables, the motor, and the pump assembly. The inspection shall consist of the following:
 - 4.5.1.2. Completely disassemble the pump of all individual components, including all bearings, seals, impeller (s) and related parts, exercising care not to damage any part. Measure and record all component dimensions and clearances as the pump is disassembled.
 - 4.5.1.3. Blast clean pump casing, volute, impeller and other pump components. Bearing running surfaces or housings must be covered and protected against cleaning gritblast.
 - 4.5.1.4. Perform Non Destructive Examination of blast cleaned components. Acceptable methods are dye penetrate or magnetic particle. NDE shall be performed by qualified personnel certified in NDE procedures in accordance with the most recent ASME Boiler and Pressure Vessel Code, Section V Non Destructive Examination.
 - 4.5.1.5. Power and control cables shall be inspected for cuts, swollen sections, and are be to meggered separately from the motor.
 - 4.5.1.6. Motor inspection and overhaul work shall be performed by an approved factory authorized motor repair facility as approved by the Rockland County Sewer District No.1.
 - 4.5.1.7. Motor shall be megger tested prior to disassembly. A megger test at 1000 volts for a period of one (1) minute shall be performed and a polarization index established for each phase.
 - 4.5.1.8. The motor shall be carefully disassembled with special precautions taken to avoid damage to

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TITLE:
PUMPS – INSPECTION, OVERHAUL, MOTOR
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stator windings, shaft journals, rotor and mating part surfaces. The manufacturer's recommended disassembly procedures shall be followed by the repair facility. All as found dimensions, fits, and clearances shall be recorded as the motor is disassembled.

BID NUMBER: RFB-RC-2022-030

- 4.5.1.9. The disassembled motor shall be washed initially by steam cleaning with an approved mild detergent, thoroughly rinsed with steam and hot water to remove all traces of cleaning compound and oven dried.
- 4.5.1.10. Drying ovens shall be the circulating type with close temperature control. The drying cycle shall be of sufficient duration to insure that the unit attains the highest possible insulation resistance. The maximum temperature in each case shall not exceed that imposed by limitation of the insulating materials.

4.5.1.11. PERFORM THE FOLLOWING TESTS AND INSPECTIONS

- 4.4.1.11.1. Inspect A.C. stator coil bracing, coil support looseness in slots and end turns, loosewedges or fillers, end turn insulation and condition of the windings for obvious defects.
- 4.4.1.11.2. Phase balance check each phase of the unassembled unit for phase current.
- 4.4.1.11.3. Perform a continuity check on motors equipped with heaters and circuit integrity check on motors equipped with thermocouples, RTD'S, thermal protection devices and seal leak detector circuit.
- 4.4.1.11.4. Inspect shaft for excessive wear, runout, and damaged keyways.
- 4.4.1.11.5. Inspect bearings for signs of looseness, skating, overheating, overloading and fretting.
- 4.4.1.11.6.Inspect rotor for obvious mechanical defects, heat discoloration and evidence of rubbing.
- 4.4.1.11.7.Inspect motor lead entrance head for evidence of water leakage. Megger all cables.

4.5.2. ELECTRIC SUBMERSIBLE SEWAGE PUMPS - OVERHAUL

- 4.5.2.1. The unit price bid for a standard overhaul shall include all labor material and supervision costs to repair the seal and bearing journals including all hardware fasteners (nuts, bolts, washers, keys, etc.) that are an integral part of the replacement item; reassemble, shop test, shop test report and return pump to the RCSD#1 location. Cables must be changed, unless determined otherwise by the Engineer to be a replacement cost. The unit price bid shall include all costs to furnish and install the following parts/materials:
 - Mechanical Seals
 - Mechanical Seal Sleeves
 - Bearings, O-Rings, Gaskets, Snap Rings, Spacer Rings, Retaining Rings, Grommets
 - Overload devices
 - Oil

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- Exterior Painting (1 coat of PVC Epoxy Primer and 2 coats of Chloric rubber paint)
- Impeller & Rotor balance (static and dynamic, including data sheet)
- 4.5.2.2. Submersible pump overhaul shall be the costs for all labor to perform the assembly of the unit, excluding replacement parts not otherwise included in the costs specified above, and all approved machine work, the need for which shall be determined from the analysis of the inspection report.
- 4.5.2.3. Assemble the submersible pump (s) using the existing and authorized replacement parts.
- 4.5.2.4. The unit shall be assembled as per manufacturer's assembly instructions.
- 4.5.2.5. General motor overhaul procedures:
- 4.4.2.5.1. <u>Bearings</u>: It is imperative that strict cleanliness be observed in the assembly of bearings and races. The bearings and races shall remain in their original packing until immediately before mounting. The bearing housings must be carefully cleaned to remove any traces of metal chips, filings, and any other foreign matter. The bearings shall be installed in accordance with the bearing manufacturer's recommended mounting procedure.
- 4.4.2.5.2. <u>Stator</u>: Windings shall be inspected for loose banding, blocking, wedges, and tying material. Minor repairs shall be performed to restore windings as per original construction. The windings shall be steam cleaned, dried, and receive two dip coatings of varnish and baked.
- 4.4.2.5.3. <u>Leads</u>: If it is found necessary to replace existing leads, new leads shall be installed after all impregnation's are completed to avoid cracking of the lead insulation during baking cycles. Lead wire or cable should be equivalent to or exceed those removed in flexibility, carrying capacity and insulation value. The leads shall be brazed to the stator winding connections. A record of lead markings and their relationship to winding configuration shall be made by the repair shop on the motor as received. The repaired motor leads shall be identified with permanent marking tags, (non-corrosive) using the same marking symbols as originally received.
- 4.4.2.5.4. <u>Rotor:</u> The rotor shall be dynamically balanced in accordance with the original manufacturer's recommendations to insure vibration free service. The rotor shall be, prior to balancing, lathe checked, journals measured and all measurements, which are required to insure motor design tolerances are within acceptable limits. Rotor shall be balanced only after being thoroughly cleaned.
- 4.5.2.6. Impeller(s), pump shafts, and motor rotor assemblies shall be statically and dynamically balanced. Any weight added to the impeller for balancing, shall be of the same material as the impeller and shall be secured by welding. No weight shall be added in the impeller passageways. The maximum limits for vibration of the assembled pump shall be kept within the limits as stated in the Hydraulic InstituteStandards.

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- 4.5.3. MOTOR REWINDING: The unit price bid shall include all labor, supervision, and materials including bearings to perform a complete rewinding of themotor.
- 4.6. Testing: Submersible sewage pumps shall be tested electrically and mechanically after reassembly. The repair facility shall give two days notice to the Rockland County Sewer District No. 1 before scheduled testing. The Rockland County Sewer District No. 1 reserves the right to witness all testing. The testing shall include the following:
 - 4.6.1. <u>Dielectric Test</u>: Windings will be subjected to a high potential test 150% of rated voltage plus 1000 volts for a period of one minute before and after the running test.
 - 4.6.2. <u>Surge Comparison Test</u>: Each phase shall be surge tested as required.
 - 4.6.3. <u>Megger Test</u>: A megger reading at 1000 volts for one (1) minute before and after the running test. Minimum megger reading must be equal to the rated machine line to line voltage in KV plus 1 Megohm. Note: A polarization index must be established.
 - 4.6.4. <u>Running Test</u>: Pump (s) and motor (s) shall be test operated for 15 minutes. Repair facility is responsible for providing all materials and equipment to conduct test without causing damage to the pump.
- 4.7. <u>Initial Inspection Report</u>: The repair facility shall prepare an initial inspection report outlining all component dimensions, bearing fits, clearances, physical condition and NDE results. The report shall include an itemized listing of all recommended repair work and pricing. All units are to be identified by serial number.
- 4.8. Notify Rockland County Sewer District No. 1 for an in shop inspection for evaluation of the initial inspection report and recommended repair work and pricing No further pump/motor work shall be performed until completion of the in-shop inspection and written authorization by Rockland County Sewer District No. 1 is received to proceed with repair and pump/motor reassembly.
- 4.9. <u>Final Reports</u>: A final report documenting all pump and/or motor initial and final electrical tests, inspections, balancing, NDE results, and component clearances will be submitted at time of pump and /or motor return. Failure to provide report will delay invoice payment.
- 4.10. <u>Finishing:</u> The exterior of the repaired pump and/or motor shall be painted with an approved paint or coating. Paint color or coating material shall be selected at time of pump and/or motor inspection.
- 4.11. <u>Nameplates</u>: The original equipment nameplates shall be clean and legible. If not, the repair facility shall furnish a stainless steel nameplate indicating the manufacturer's name, all pertinent data and affix it to the unit.
- 4.12. <u>Motor Certification</u>: The repair facility shall certify and provide certification on the motor repair. The motor must comply with manufacturer's original assembly and operational requirements. UL certification on submersible pump motor (s) must be affixed to the motor.

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- 4.13. <u>Schedule</u>: The repair facility shall be given two (2) days to perform the disassembly and inspection of the pump (s) from the time of pickup. Reassembly shall be performed within three (3) days from receipt of spare parts and/or authorization to proceed with repair.
 - 4.14. <u>Emergency</u>: Should authorized sewer personnel declare a job an emergency, Contractor must respondimmediately or in requested time frame and expedite all repairs and services.
 - 4.15. <u>Guarantee</u>: The repair facility shall guarantee all work performed free of material and labor defects for a period of six months from time of units return to service.

5. PAYMENT

- 5.1. The Contractor shall be paid for each job authorized by the Rockland County Sewer District #1 upon submission of properly executed invoices. Invoices shall be submitted according to these requirements:
- 5.2. <u>Labor Charges</u>: For the installation of replacement parts not included in specification sections 4.3.2.1 and 4.4.2.1 and all authorized repair work. The invoice must list specifically:
 - 5.2.1. Start time and completion time
 - 5.2.2. Name of each employee with type of labor utilized
 - 5.2.3. Total number of man-hours worked times hourly rate
 - 5.2.4. Total labor charges
- 5.3. The Contractor's labor charges must correspond to the rates which he will supply with the bid. The bidder agrees and hereby certifies that all labor charges contained in the bid's invoices and vouchers shall be only those that were required and necessary to complete the required work.
- 5.4. <u>Material/Parts Costs</u>: The invoices for payment must list specifically all parts and materials and cost to the Contractor for each item. The County of Rockland will require verification of these costs by copy of the invoice as submitted to the contractor for payment. The Contractor agrees and hereby certifies that all parts and materials which he purchases shall be at lowest price available at the time considering the prevailing conditions and circumstances for which it is required that the purchase be made. County of Rockland reserves the right to supply material when deemed in the best interest of the County of Rockland.
- 5.5. Documentation of material costs (invoices, etc.) of items greater than \$100 must be provided with Contractor's invoices.
- 5.6. <u>Mark-up</u>: The Contractor shall add a fixed percentage of the above described material charges to the invoice for payment. The percent mark-up must correspond to the figure entered in the proposal to this bid.
- 5.7. <u>Parts Fabricated or Manufactured</u>: All labor and materials involved with the fabrication or manufacture by the bidder of parts necessary for repair shall be reimbursed according to the above requirements for labor charges and material costs.
- 5.8. <u>Additional Items</u>: If the Contractor expects to incur any additional costs not specified in the above

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paragraphs, he must submit a list of those items and corresponding charges or schedule with his bid. There will be no additional charge for delivery or mileage. No other costs except those placed in the bid proposal at the time the bid is submitted shall be evaluated, considered or deemed acceptable charges by the County of Rockland. The Contractor further agrees that should it be determined by the County of Rockland that the Contractor is falsifying his invoices or partaking in fraudulent practices so as to reflect higher costs than actually incurred in the repair, this falsification of fraudulent practice shall be considered a material breach of the terms of the contract. Nothing herein shall be considered to limit the authority of the County of Rockland to prosecute any bidder or Contractor who violates the laws of the State of New York.

6. USE OF PREMISES

- 6.1. On or about the premises and adjacent areas, the Contractor shall ensure that all apparatus, storage of materials, and activities of workmen be confined to the limits indicated by law, ordinances, permits and the direction of the authorized County of Rockland representative, and shall not encumber or permit the premises or adjacent areas to be encumbered with such materials or apparatus.
- 6.2. The work site shall be kept in an orderly and safe fashion so as not to interfere with the progress of the work or the work of any other Contractor.
- 6.3. The Contractor shall be responsible for repairing and replacing anything damaged by his operations, within thirty (30) days after notification by the authorized County of Rockland representative that damage has occurred.
- 6.4. It will be the responsibility of the Contractor to report, to the authorized County of Rockland representative, any damages found prior to any work at this site.

7. CLEANING UP

7.1. The Contractor shall at all times keep the premises and adjacent areas free from accumulations of waste material or rubbish. At the completion of the work, he/she shall remove, from and about the premises, including adjacent areas, all rubbish, tools and surplus materials used for work and shall have the area "Broom Clean" and ready for use. In case of a dispute, County of Rockland may remove rubbish and clean up, then may charge the Contractor either by deduction of amounts unpaid to the Contractor, or by other means as determined to be fair and equitable by the authorized County of Rockland representative.

8. LAWS, PERMITS, AND LICENSES

- 8.1. Contractor shall comply with all applicable Federal, State and Municipal Laws and as required, to perform all work as specified.
- 8.2. Contractor shall possess all qualifications, and obtain any required licenses and permits to perform the work specified. Upon request, proof of these items shall be provided to the Director of Purchasing with Bid.

9. QUESTIONS

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9.1. All questions must be submitted in writing via email to <u>purchasing@co.rockland.ny.us</u>. The Solicitation Number must appear in the subject line of the email communications. Deadline for submission of questions is February 24, 2022 – 10:00 PM EST.

10. AWARD

10.1. Award will be made to the lowest responsible, responsive bidder . All quantities shown are estimates. The successful bidder will be required to furnish quantities that may be more or less than the listed estimated quantities.

11. CONTRACT PRICE ADJUSTMENTS UPON RENEWAL

11.1. The County recognizes this product or service has a price component that may have a commodity with changing costs. The Contractor/Supplier may request a Price Adjustment no more frequently than once each quarter (3 month period).

A Price Adjustment request must be made in writing and include the reason for the request, documentation supporting the request (ie, commodity increases), the current pricing, and the requested revised pricing.

The County will review the Price Adjustment request. If the Price Adjustment is deemed reasonable the Price Adjustment request will be accepted by written acknowledgement. If the request is not accepted the County may entirely reject the request or may counter with revised pricing. In either case the County will provide a written explanation in support of the decision.

The Director of Purchasing may use available indexes (e.g. CPI or PPI) to determine if the requested Price Adjustment is reasonable. Typically, a Price Adjustment that exceeds 5% will not be approved unless very unusual and significant changes have occurred in the industry.

In the event industry costs decline, the County shall have the right to receive, from the Contractor, a reasonable reduction in prices/pricing that reflect such cost changes in the industry. The County will make a written request to the Contractor for a Price Adjustment in writing with supporting documentation.right to reject any request for price increase deemed excessive.

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12. TRAVEL TIME

12.1. The County of Rockland shall not accept nor authorize payment for travel time or expenses of service personnel to any of the County of Rockland's facility locations. The only billable time shall be for service work performed.

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SCHEDULE A - List of Pump Stations and Inventory

Inventory listing is not inclusive of all pumps to be serviced under this contract Inventory Listing is uploaded as a separate attachment:

ROCKLAND COUNTY SEWER

DISTRICT No. 1

Pump Station Addresses and Phone Numbers

(including Screenings Fac.)

STATION

ADDRESS

CITY

Cherry Lane Congers Conklin Cooper-Morris Fourth Street Grandview Hackensack Limekiln Lincoln Street Mahwah Montebello Mount Ivy North (Centinary) Pascack Pinebrook Pomona **Pomona Heights** Route 202 Saddle River Screening Facility Sloatsburg South Pascack Tallman **Torne Valley** Twin Lakes Union Hill West Nyack Wilder Rd

2A Cherry Lane 100A Waters Edge 96A Conklin Rd 1007 Route 45 6A Fourth Street 258 Grandview Ave 212 Sickletown Rd 92 Limekiln Rd 81 Lincoln St 2A Lake Rd 35A Mayer Rd 1585 Rte 202 198 Old Rte 304 169 Convent Rd 5 Sandra Ct 2 Camp Hill Rd 5B Ethan Allen Dr 1299 Haverstraw Rd 754 Saddle River Rd 57 E. Townline Rd 160 Route 17 79 Pascack Rd 421 Spook Rock Rd 170 Torne Valley Rd 55 South Monsey Rd 30 Hemion Rd 24 Palisades Dr 1099 Haverstraw Rd

Tallman Congers Pomona Pomona Hillburn Suffern Orangeburg Suffern Sloatsburg Suffern Suffern Pomona New City Nanuet Monsey Pomona Pomona Suffern Monsey Pearl River Sloatsburg Pearl River Tallman Hillburn Monsey Suffern W. Nyack Suffern

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Rockland County Sewer District Pump Invenotry Listing - as of 01/2022

LOCATION	MFG.
PLANT A-RBC AERATION CHAMBER	MASS TRANSFER SYSTEMS
LINCOLN STREET PUMP STATION	GORMAN-RUPP
PLANT B-RBC AEARATION CHAMBER	MASS TRANSFER SYSTEMS
PLANT FACILITY- CENTRAL SUMP	KSB PUMPS
COOPER MORIS PUMP STATION	BARNES
POMONA HEIGHTS PUMP STATION	HYDROMATIC PUMP
ROUTE 202 PUMP STATION	ESSCO
LIME KILN PUMP STATION	KOMLINE SANDERSON
MONTEBELLO PUMP STATION	CLOW PUMP DIVISION
MONTEBELLO PUMP STATION	KOMLINE SANDERSON
MONTEBELLO PUMP STATION	RELIANCE/CLOW
MOUNT IVY PUMP STATION	HYDROMATIC
MOUNT IVY PUMP STATION	KOMLINE SANDERSON
PLANT DIGESTER GAS MIXING	RO-FLO COMPRESSORS
POMONA HEIGHTS PUMP STATION	KOMLINE SANDERSON
TORNE VALLEY PUMP STATION	GORMAN-RUPP
CONKLIN ROAD PUMP STATION	KOMLINE SANDERSON
FORTH STREET PUMP STATION	GORMAN-RUPP
WILDER ROAD PUMP STATION	HYDROMATIC PUMP
WILDER ROAD PUMP STATION	KOMLINE SANDERSON
CONGERS PUMP STATION	HYDROMATIC PUMP
CONGERS PUMP STATION	KOMLINE SANDERSON
PLANT A-RBC AIR SUPPLY	HOFFMAN - GARNER DENVER
PLANT WATER PUMP	CHESAPEAKE
WEST NYACK PUMP STATION	CORNELL PUMP CO.
PASCACK PUMP STATION	CORNELL PUMP CO.
POMONA PUMP STATION	HYDROMATIC
POMONA PUMP STATION	KOMLINE SANDERSON
MAHWAH PUMP STATION	Cornell PumP w/Cornell Motor
MAHWAH PUMP STATION	CORNELL
PINEBROOK PUMP STATION	CORNELL PUMP CO.
CHERRY LANE PUMP STATION	CORNELL PUMP CO.
CHERRY LANE PUMP STATION	CORNELL PUMP CO.
GRANDVIEW PUMP STATION	CORNELL
GRANDVIEW PUMP STATION	CORNELL
GRANDVIEW PUMP STATION	CORNELL
NORTH PUMP STATION	CORNELL PUMP CO.
PLANT B-RBC AIR SUPPLY	HOFFMAN - GARNER DENVER
TALLMAN PUMP STATION	GOULDS PUMPS INC.
TALLMAN PUMP STATION	MORRIS PUMP
TALLMAN PUMP STATION	ABBA PUMP PARTS
UNION HILL PUMP STATION	GOULDS PUMPS INC.
UNION HILL PUMP STATION	MORRIS PUMP
SLOATSBURG PUMP STATION	ITT/FLYGT
SOUTH PASCACK PUMP STATION	CORNELL PUMP CO.
PLANT- MAIN PUMP 2,	WORTHINGTON
PLANT- MAIN PUMP 3,4,5, SPARE	INGERSOL-DRESSER
PLANT- MAIN PUMPS 1 & 6	WORTHINGTON

TWIN LAKES PUMP STATION	CORNELL PUMP CO.
HACKENSACK PUMP STATION	FLOWSERVE PUMP
SADDLE RIVER PUMP STATION	CORNELL PUMP CO.

SERIAL NUMBER	MODEL #	CATEGORY	HP
N/A	MTM02-5	Submersible	5
1464198/199/200	T3A3S-BF	Horizontal Self Priming Pump	7.5
N/A	MTM02-7.5	Submersible	7.5
N/A	KRT F 80-250/96XG-S	Submersible	10
P/N 084729	4XSE15044A	Submersible	15
NA	S4BX	Submersible	20
99146-1/2, 13122	3X12	Submersible	20
N/A	KSZ-6150C2-1836	Submersible	25
N/A	4X4X15X3	Submersible	25
N/A	KP-106-3240	Submersible	25
34UB37296A		Submersible	25
N/A	S4BX	Submersible	25
N/A	KSZ-6150C2-2264	Submersible	25
23991/2/3, 5854	8DB		25
KSZ-504	KSZ-6150C2-1836	Submersible	25
1458378/79/80	T6A3S-BF	Horizontal Self Priming Pump	25
N/A	KSZ-6150C2-2004	Submersible	40
1459027/8/9	T8A3S-BF	Horizontal Self Priming Pump	40
NA	S4BX	Submersible	40
N/A	KSZ-6150C2-2004	Submersible	40
574467	S6LX - 5000FC	Submersible	50
NA	KSZ-6150C2-2004	Submersible	50
PO61438/39/40	74103-ADOI		50
1039321CHP001A		Dry- Pit Horizontal	60
79468/69/70	8NHTA Vertical Frame	Dry Pit - Shaft Driven	60
81769/70/71	6NHTAVF18	Dry Pit - Shaft Driven	75
N/A	S4TX	Submersible	75
N/A	KSZ-6150C2-2264	Submersible	75
211608/9 13.44	6NHTA-SUB	Submersible	100
227308 13.44	6NHTA	Submersible	100
81772/3/4	6NHTA-VF18DR	Dry Pit - Shaft Driven	100
81778/79/80	6HTB-8VCX	Dry Pit - Shaft Driven	125
249194	6NHTB-VF18DB	Dry Pit - Shaft Driven	125
15790813-56	6NHTA VMS	Submersible	125
244124 14.00	6NHTA-SUB	Submersible	125
239631 14.00	6NHTA-SUB	Submersible	125
79461/2/3/4	10NHTA Vertical Frame	Dry Pit - Shaft Driven	125
0785501/2/3	75103A1		125
M-93129A01	NCD 10X10-20	Dry Pit - Shaft Driven	125
M-19387/8	10 NCD	Dry Pit - Shaft Driven	125
MON1015/F7-CX	10 NCD -MORRIS	Dry Pit - Shaft Driven	125
M-93129A02	NCD8X8-17	Dry Pit - Shaft Driven	150
M–19383/4/5, 9018243			
9014295	8NCD	Dry Pit - Shaft Driven	150
3231.665-1071052/3,			100
3231.665-1071057/8	8"CP-3231/665 WITH 430	Submersible	160
			100
81775/6/7,129731–16.00	6NHTB-8VCX	Dry Pit - Shaft Driven	200
85-Z002785-/2	24MNV28	Dry Pit - Shaft Driven	250
97.03S000061-1/2/4/5	24MNV28	Dry Pit - Shaft Driven	250
Z002787-1/2	24MNV28	Dry Pit - Shaft Driven	250
2002101-1/2			250

79465/6/7, 85450–17.50,			
143283	8NHTA Vertical Frame	Dry Pit - Shaft Driven	250
1007MS005178-1/2/3/4,			
1007MS005179-1/2	12MNV24-FR8H	Dry Pit - Shaft Driven	300
148851/2–17.5,			
148853–16.00	8NHTA-8VCX	Dry Pit - Shaft Driven	300