

COUNTY OF ROCKLAND
Department of General Services
Purchasing Division

Contract Award Notification

Title: Telemetry Systems & Controls, P/M and Emergency Services

Contract Period: May 24, 2022 through May 23, 2023 w/2-1 year options
Extended through May 23, 2024 w/ 1-year option

Original Date of Issue: **May 20, 2022**

Date of Revision: **March 16, 2023**

BID No: RFB-RC-2022-044

PW #: 2022001874 (article 8)

Catalog: Wastewater Treatment

Authorized Users: County Agencies, Political Subdivisions

Address Inquires To:

Name: Michele Phillips
Title: Purchaser I
Phone: 845-364-2984
Fax: 845-364-3809
E-mail: phillipm@co.rockland.ny.us

Description

**This contract is for the preventive maintenance of and emergency services for
Telemetry Systems and Controls**

Contract #	Vendor Number	Contractor & Address	Telephone No.
BID 22-044	0000007439	Longo Electrical-Mechanical One Harry Shupe Blvd. Wharton, NJ 07885 Contact: Joseph Longo jmlongo@elongo.com kkoller@elongo.com	973-537-0400 FAX:973-537-0404

COUNTY OF ROCKLAND
 DGS – PURCHASING DEPARTMENT
 BLDG. A, 6TH FLOOR, 50 SANATORIUM ROAD
 POMONA, NY 10970
 TELEPHONE NO.: 845-364-3820 / FAX NO.: 845-364-3809

VENDOR:Longo Electrical Mechanical

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
LABOR COSTS FOR TECHNICAL SERVICE PERSON FOR TIME AND MATERIAL WORK – NO TRAVEL TIME						
1	Hourly price for Technician Monday to Friday 8:00 AM to 4:00 PM	96176000014	600	HOUR	\$182.00	\$109,200.00
3	Labor Rates Technician Monday to Friday 4:00 PM to 8:00 AM	96176000015	40	HOUR	\$182.00	\$7,280.00
4	Labor Rates Technician Saturday 8:00 AM to 4:00 PM	96176000016	4	HOUR	\$273.00	\$1,092.00
5	Labor Rates Technician Saturday 4:00 PM to 12:00 Mid	96176000017	1	HOUR	\$273.00	\$273.00
6	Labor Rates for Technician Sunday 12:00 Mid to 8:00 AM	96176000018	1	HOUR	\$273.00	\$273.00
7	Labor Rates for Technician Sunday 8:00 AM to 4:00 PM	96176000019	1	HOUR	\$273.00	\$273.00
8	Labor Rates for Technician Sunday 4:00 PM TO 12:00 MID	96176000020	1	HOUR	\$273.00	\$273.00
9	Labor Rates for Technician Monday 12:00 Mid to 8:00 AM	96176000021	1	HOUR	\$273.00	\$273.00
10	Labor Rates for Technician Holiday	96176000022	1	HOUR	\$273.00	\$273.00
11	Hourly price for Remote Technical Support	96176000023	16	HOUR	\$128.00	\$2,048.00
12	Total extended price for items 3-11			TOTAL		\$12,058.00
	MATERIAL COSTS					

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VENDOR:Longo Electrical Mechanical

LINE NO.	DESCRIPTION	ITEM NUMBER	EST. QTY.	UNIT	UNIT PRICE	EXTENDED PRICE
14	Percent Mark Up For Materials and Parts which may be purchased in conjunction with bid. (Bidder must enter 0 in appropriate column if there is no mark up offered.) Not to Exceed 10%	96176000024	ESTIMATED DOLLARS <u>EXPENDED</u> \$18,000.00	% MARK UP	5 _____%	\$18,900.00
15	Percent Mark Up For Equipment Rental in conjunction with bid. (Bidder must enter 0 in appropriate column if there is no mark up offered.) Not to Exceed 5%	96176000025	ESTIMATED DOLLARS <u>EXPENDED</u> \$1000	% MARK UP	5 _____%	\$1,050.00
16	Total extended price for items 14-15			TOTAL		\$19,950.00
	PREVENTIVE MAINTENANCE					
18	Preventative Maintenance per site as specified in items 21.2., 21.3., 21.4 and 21.5.	96176000026	28	EACH	\$196.50	\$5,502.00
20	TOTAL OF LINES 1, 12, 16 AND 18					\$146,710.00

VENDOR NOTE: MAKE AN ENTRY FOR EVERY LINE ITEM

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PURCHASES BY NON-PROFIT AGENCIES

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 non profit agencies through our website: www.rcpurchasing.com
2. Any 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 non profit agency for which the purchase was made.
4. 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 Rockland County non profit agency 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.
5. 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 political subdivisions or Rockland County non profit agencies.

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SPECIFICATIONS

1. SCOPE

- 1.1. Provide labor and materials to perform scheduled preventative maintenance and emergency repair work on the Rockland County Sewer District Telemetry System and Supplemental Instrumentation and Control devices. The Telemetry System is installed in the main Treatment Plant in Orangeburg, NY and twenty-eight (28) remote locations.
- 1.2. This bid does not include project related upgrades and system replacement. Upgrades and system replacement shall be issued as separate solicitations.
- 1.3. Bids containing restrictions will not be acceptable unless the Rockland County Purchasing Department deems the restrictions conform to the County of Rockland requirements.
- 1.4. The estimated labor hours and quantities listed are estimates only and may be more or less depending on the needs of the County of Rockland.
- 1.5. Due to the addition of PM and Repair of the Supplemental Instrumentation and Control devices this bid will now require Prevailing Wage and Certified Payrolls.

2. SITE VISIT

- 2.1. All bidders are encouraged to visit the Sewer District in Orangeburg, NY to inspect the equipment and view copies of the maintenance manuals. Bidders shall be required to perform the work as specified whether or not they visit the site. To schedule a site visit, contact Mr. Josue Thomas at (845) 365-6111.

3. LOCATIONS

- 3.1. The main Treatment Plant in Orangeburg has the systems and devices listed below:
 - 3.1.1. SCADA System Servers
 - 3.1.2. Historian Server
 - 3.1.3. Laser Printer
 - 3.1.4. Color Ink-Jet Printer
 - 3.1.5. Alarm Printer
 - 3.1.6. Cisco-1841 Router
 - 3.1.7. GE Fanuc Polling PLC
 - 3.1.8. HP Network Switch
 - 3.1.9. (3) SCADA Notebook Computers
 - 3.1.10. Demo/ Test Panel with PLC's and I/O
- 3.2. Eighteen (18) remote locations are designated S1-Sites and they have the following equipment:
 - 3.2.1. Cable Modem
 - 3.2.2. Cisco 1811 Router
 - 3.2.3. US Robotics dial-up modem
 - 3.2.4. GE- Fanuc PLC and I/O modules
 - 3.2.5. Local Operator Interface (LOI)
 - 3.2.6. UPS
 - 3.2.7. Power Supplies Breaker and Terminal Blocks

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3.3. The remaining ten (10) remote locations are designated S2-Sites and they have the following equipment:

- 3.3.1. Cable Modem
- 3.3.2. Cisco 1811 Router
- 3.3.3. US Robotics dial-up modem
- 3.3.4. Redundant GE- Fanuc PLC and redundant I/O modules
- 3.3.5. Local Operator Interface (LOI)
- 3.3.6. UPS
- 3.3.7. Power Supplies Breaker and Terminal Blocks

3.4. Software including:

- 3.4.1. Ifix SCADA HMI software
- 3.4.2. XLReporter
- 3.4.3. Proficy Historian software
- 3.4.4. Win/911 Alarm Reporting Software

3.5. Supplemental Instrumentation and Control devices:

- 3.5.1. Multitrode Pump Controller MT3PC3 and related sensor probes and level transducers
- 3.5.2. RKI Instruments GX-2009 Portable Gas Monitors
- 3.5.3. MSA Fixed Gas Detector Ultima X series for Twin Lakes Pump Station
- 3.5.4. Toshiba VFDs 250 HP for the Main Pumps
- 3.5.5. ABB and Danfoss VFDs for the Centrifuges
- 3.5.6. Allen Bradley SLC500 CPUs and PLCs modules for the Centrifuges and Main Pumps.
- 3.5.7. EVOQUA W&T Chlorine Analyzer
- 3.5.8. Flowmeters from ADS, Khrono, E&H, Manning, Rosemount at the pump stations
- 3.5.9. GREYLINE Doppler Flowmeter DFM 5.1 in the main plant.
- 3.5.10. Rosemount Level 2051L in the Digester Building.
- 3.5.11. Vibration Switches, Pressure Switches and Temp sensors for various controllers
- 3.5.12. Control Communication and Alarm Panel for E1 Grinder Pump Stations

4. PERSONNEL

- 4.1. Bidder must employ factory-trained personnel and must submit with bid a list of current employees, who would be servicing the hardware, software and Variable Frequency Drive Equipment as it relates to Telemetry equipment. The following information should be on the list: Name of employee, level of certification, dates of certification. At awarding of bid the bidder must supply a copy of each employee's certification, all copies to be notarized. All service technicians must have a minimum of three years paid documented experience in the repair and troubleshooting the control system and component specified in Section 3 or of units similar to the system.

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5. INSPECTION

5.1. The quality of service shall be subject to inspection by the designated representative of the County of Rockland at any time. Should it be found that the quality of the service being performed is not satisfactory, and that the specifications are not being met, the Director of Purchasing or his designee, may terminate the Contract, giving 30 days prior written notice. In addition, if at any time during the life of the contract, the contractor, in the opinion of the County of Rockland, fails to take all reasonable steps to expedite the work, the County of Rockland may unilaterally nullify the contract.

6. REPORTS

- 6.1. A written report detailing the overall condition of the Telemetry System, observed deficiencies, and recommended actions shall be provided within one week after each scheduled service call. Also, Bidder will supply a detailed report for each emergency service or repair. This report must contain a description of the problem and any corrective action taken.
- 6.2. Detailed description of all completed repair work indicating labor and parts provided and work performed must be submitted to the County of Rockland for signature at the time the work is performed, and a copy of the signed work request must accompany all invoices.

7. LABOR AND MATERIAL COSTS

- 7.1. All labor and materials shall be invoiced and paid, as bid, on the proposal pages.
- 7.2. Detailed billings must be received by the County of Rockland within **FIFTEEN** (15) days after completion of each job.

7.2.1. LABOR COSTS

- 7.2.1.1. Detailed description of all completed service work must accompany all invoices.
- 7.2.1.2. Contractor shall bid a labor rate in dollars per man-hour for a technician to make required repairs, replacements, and troubleshooting.
- 7.2.1.3. The bidder agrees and hereby certifies that all labor charges contained in the invoices and vouchers shall be only those that were required and necessary to complete the work.
- 7.2.1.4. 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.
- 7.2.1.5. Labor costs for Preventive Maintenance work shall be bid as a lump sum per site as per the bid proposal pages. Material cost for preventive maintenance work shall be billed separately as per the specifications.
- 7.2.1.6. This is a Prevailing Wage solicitation. Awarded contractor shall provide certified payrolls with each invoice as per the NYS Department of Labor Prevailing Wage Law.

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7.2.2. MATERIAL COSTS - NOT TO EXCEED 10%

7.2.2.1. The invoices for payment must list specifically all parts and materials and cost to Bidder 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 bidder 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.

7.2.2.2. Documentation of material costs (invoices, etc.) of items greater than \$100 must be provided with Contractor's invoices. All materials and components utilized shall be original component assembled and installed or approved equal.

7.2.2.3. Materials are to be invoiced at the Contractor's cost and the mark-up. The mark-up is not to exceed the percent bid on the proposal pages and shall not exceed 10%.

7.2.2.4. There shall not be any Mark-up on shipping costs for material shipped to the awarded vendor. The only Markup will be on the equipment itself.

7.2.3. ADDITIONAL ITEMS

7.2.3.1. If the Contractor expects to incur any additional costs not specified in the above 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.

8. INCREASES

8.1. In the second and third year of this agreement, at the County of Rockland's option, the Contractor may receive a Unit Daily Cost increase not to exceed the prevailing CPI. The decision of the County of Rockland is Final and Binding. At the option of the County of Rockland, this contract(s) may be extended for two additional one-year terms with the prevailing CPI increase. Vendors must request this increase in writing.

8.2. CPI-U means the Consumer Price Index for U.S. City Average-Consumer Price Index for All Urban Consumers as published by the Bureau of Labor Statistics of the United States Department of Labor or a successor or substitute index, appropriately adjusted. The Final and Binding decision to extend or not extend this agreement shall rest with the County of Rockland.

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8.3. Vendors shall submit a letter to the Director of Purchasing addressing any unscheduled price increases from the manufacturers. This letter must also include, on the manufacturers letterhead, all information to support any unscheduled increase. Any increase authorized is at the sole discretion of the Director of Purchasing and shall be made in writing.

9. SAFETY

- 9.1. The Contractor shall adhere to all OSHA, PESH and County of Rockland safety rules while the work is in progress. Contractor is responsible for any damage to vehicles or structures resulting from the Contractor's negligence.
- 9.2. Contractor shall maintain the work site in a clean and orderly fashion. All debris shall be cleaned and removed from the work site each day.

10. USE OF PREMISES

- 10.1. 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.
- 10.2. 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.
- 10.3. 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.
- 10.4. 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.

11. CLEANING UP

- 11.1. 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.

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12. WORK HOURS

- 12.1. Regular work must be performed between the hours of 8:00 AM and 4:00 PM, Monday through Friday. No work is to be performed outside of these hours without approval from the authorized County of Rockland representative. The Contractor shall notify the authorized County of Rockland Representative 24 hours in advance prior to the scheduled service date.
- 12.2. The County of Rockland shall not pay for Lunch breaks and any additional company approved break times. The County will only pay for the time working on-site.

13. EMERGENCIES

- 13.1. Vendor shall be required to provide an afterhours telephone number for emergency requirements.
- 13.2. Contractor shall have a staffed office (answering machine or voice mail are not acceptable) to take calls 24 hours/days, 365 days/year. A return call by a technician to determine the nature of the emergency shall be made to the Rockland County Sewer District #1 within 1 hour.
- 13.3. When the bidder is informed that emergency repair service is required, the bidder must take whatever steps is necessary to expedite work including overtime work, evening, weekend and holidays. Bidder shall have a technician on the job site within four (4) hours.

14. LAWS, LICENSES, AND PERMITS

- 14.1. Contractor shall comply with all applicable Federal, State and Municipal Laws and as required, to perform all work as specified.
- 14.2. Contractor and their service personnel shall possess all qualifications and obtain any required licenses and permits to perform the work specified, including any licenses required by the County of Rockland. Proof of these items shall be provided to the Director of Purchasing with Bid.

15. CONTRACTOR REQUIREMENTS

- 15.1. The County of Rockland will perform its due diligence to determine responsible bidder. This may include inspection of the repair facilities of the apparent low bidder prior to award to determine their capacity to perform this work. The successful bidder shall maintain a satisfactory inventory of repair and replacement parts for the units specified at their warehouse. Bidder shall show evidence of inventory upon request.
- 15.2. All bidders must submit the certificate of experience with systems, devices, and hardware, software listed in Section 3 above.
- 15.3. The Contractor is responsible for providing all tools and equipment necessary to efficiently perform all work in a professional and workmanlike manner.

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16. REFERENCES

16.1. Bidder must furnish, with the proposal forms, the Experience/Reference list of five references with three sites with similar equipment presently being maintained by bidder. The name and telephone number of site contact is to be included on this form with bid. References shall clearly indicate Telemetry and Control work.

17. TRAVEL TIME

17.1. All labor shall be billed from the time bidder's employee arrives at through to the time he departs from the Rockland County job site. 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 work performed.

18. REPAIR WORK

18.1. The Contractor shall only perform work, which is required. Repairs shall be performed only with the approval of an authorized County of Rockland representative. Should any repair work be performed without authorization, payment will not be made.

18.2. All service and repairs must meet with the approval of the authorized representative of the County of Rockland.

18.3. Prior to the commencement of work, contractor shall submit a written estimate. The estimate shall contain the following:

18.3.1. Repair scope of work

18.3.2. Name of County of authorizing Rockland County Department and representative.

18.3.3. Estimate of labor hours and hourly rates

18.3.4. List of material to be used and cost.

18.3.5. Total estimated cost for the repair.

19. RULES AND TIME SHEETS

19.1. Successful bidder shall be subject to facility use rules and shall sign in and out, at the designated location whenever entering or leaving the premises. The Contractor shall submit a time sheet for each day worked on preventive maintenance. Time sheets shall only indicate equipment serviced. Details of servicing can be found on the preventive maintenance record sheets. The contractor shall also provide a time sheet for repair work, which is not covered under the preventive maintenance specifications.

20. WARRANTY

20.1. The Contractor shall warranty all work performed for a minimum of one year upon completion of the work. Materials provided by the Contractor shall carry material manufacturer's standard guarantee.

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21. MAINTENANCE AND SUPPORT SERVICES

21.1. SYSTEM SUPPORT SERVICES

- 21.1.1. Review recent system operation and issues with the District's representative.
- 21.1.2. Review automation system operation and event logs. Identify systemic or commonly recurring events.
- 21.1.3. Identify issues and prioritize maintenance as required.
- 21.1.4. Provide technical support services for troubleshooting and problem solving as required during scheduled visits.
- 21.1.5. Provide ongoing system review and operations training support.
- 21.1.6. Phone support to coordinate with MIS to implement updates to get the SCADA System in compliance.
- 21.1.7. GE Variable Frequency Drive Configuration.

21.2. PREVENTIVE MAINTENANCE OF SCADA AND HISTORIAN SERVERS

- 21.2.1. Verify operation of personal computer and software.
- 21.2.2. Check for PC errors on boot up.
- 21.2.3. Check for Windows errors on boot up.
- 21.2.4. Check for software operations and performance, responsiveness of system, speed of software.
- 21.2.5. Check computer Hard Disk Drive for space and errors.
- 21.2.6. Check operation of controller by reviewing control loops to ensure system is achieving set point.
- 21.2.7. Ensure controller is communicating with the system.
- 21.2.8. Routinely back up system files, on an annual basis.
- 21.2.9. Trend data, alarm information, and Operator activity data.
- 21.2.10. Custom graphic and other information.
- 21.2.11. Ensure disaster recovery procedures are updated with current files.
- 21.2.12. Clean drives and PC housing.
- 21.2.13. Open PC and remove dust and dirt from fans and surfaces.
- 21.2.14. Open PC interface assemblies to removed dust and dirt.
- 21.2.15. Clean and verify operation of monitors.
- 21.2.16. Verify current software patches and updates as applicable.
- 21.2.17. Verify any manually over-ridden points and return to correct state.

21.3. PREVENTIVE MAINTENANCE OF CONTROL PANELS

- 21.3.1. Visual inspection of control panels and equipment.

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- 21.3.2. Identify damaged component and indications of incipient failures.
 - 21.3.3. Test lights and replace as required.
 - 21.3.4. Monitor PLC Communications.
 - 21.3.5. Check operation of controller operating system by review of controller status.
 - 21.3.6. Modify parameters to ensure accurate and efficient control as required from the analysis of control loop operation.
 - 21.3.7. Check hardware operation of controller and auxiliary transformers.
 - 21.3.8. Check and record power supply voltages.
 - 21.3.9. Perform digital input test.
 - 21.3.10. Measure and calibrate all analog input points.
 - 21.3.11. Record any changes for documentation updates.
 - 21.3.12. Measure, calibrate and document all analog input points designated as critical areas (to be determined by site analysis).
 - 21.3.13. Ensure the output ranges match the corresponding field devices by physically testing output.
 - 21.3.14. Update controller data file if calibration of sequence changes have been made.
 - 21.3.15. Verify database backup exists in a secure location for all controllers and create as required.
 - 21.3.16. Update job documentation to reflect any system changes as required.
- 21.4. UPS AND BATTERY MAINTENANCE**
- 21.4.1. Verify UPS operation in all modes: Normal, Bypass, and Failed.
 - 21.4.2. Clean cabinet and components
 - 21.4.3. Check batteries connections, battery racks and accessories as per manufacturer's recommendations.
- 21.5. MAINTENANCE OF SUPPLEMENTAL INSTRUMENTATION AND CONTROL DEVICES**
- 21.5.1. Multitrode Pump Controller MT3PC3 and related sensor probes and level transducers
 The Multitrode equipment are installed in ten (10) S1 sites. The work involves troubleshooting, repairing and replacing probes and sensors provided by the customer as necessary.
 - 21.5.2. RKI Instruments GX-2009 Portable Gas Monitors
 The work is to ensure that 18 - 24 gas meters are functional by performing periodic calibration and troubleshooting, repairing and replacing LEL/O2/H2S/CO sensors, filters and various parts provided by the customer as necessary.
 - 21.5.3. MSA Fixed Gas Detector Ultima X series for Twin Lakes Pump Station
 The work is to ensure the indication lamps, sensors are functional by performing periodic tests and maintenance in accordance with manufacturer instructions.
 - 21.5.4. Toshiba VFDs 250 HP for the Main Pumps

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TELEPHONE: 845-364-3820 / TELEFAX: 845-364-3809

**TITLE: TELEMETRY SYSTEM AND CONTROLS-
PREVENTIVE MAINTENANCE AND EMERGENCY
SERVICES**

**BID NUMBER:
RFB-RC-2022-044**

Perform preventive maintenance and repair of 6 existing Toshiba VFDs. Vendor to have the means to furnish and install replacement 250 VFDs and provide start up services as needed.

21.5.5. ABB and Danfoss VFDs for the Centrifuges

Perform preventive maintenance and repair of three existing 125 HP ABB VFDs for the centrifuges main bowl and three existing 30 HP Danfoss VFDs for the centrifuges scroll. Replacement VFDs are provided by customer as necessary.

21.5.6. Allen Bradley SLC500 CPUs and PLCs modules for the three Centrifuges and six Main Pumps.

Troubleshoot, repair Input/Output digital and analog cards. Vendor to provide and install replacement I/O modules. Vendor shall provide and install functional equal modules and related hardware and software when the existing I/O modules are obsolete and unavailable to purchase.

21.5.7. EVOQUA W&T Chlorine Analyzer

Perform yearly preventive maintenance in accordance with manufacturer instructions.

21.5.8. Flowmeters from ADS, Khrono, E&H, Manning, Rosemount at the pump stations

Provide support during troubleshooting, repairs and annual calibration of flowmeters by others.

21.5.9. GREYLINE Doppler Flowmeter DFM 5.1 in the main plant.

Troubleshoot, repair, replace and startup of various greyline flowmeters. Vendor to furnish and install replacement flowmeters as necessary.

21.5.10. Rosemount Level 2051L in the Digester Building.

Troubleshoot, repair, replace and startup of various greyline flowmeters. Vendor to furnish and install replacement flowmeters as necessary.

21.5.11. Vibration Switches, Pressure Switches and Temp sensors in the main plant and the 28 pump stations. Troubleshoot, repair, replace and startup for various vibration switches and sensors as supplied by customer.

21.5.12. Control Communication and Alarm Panel for E1 Grinder Pump Stations

Troubleshoot, repair communication issues with the panel, replace PC boards and control and related components provided by customer.

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22. AWARD

- 22.1. Award will be made to the lowest responsive and responsible bidder, who meets the specifications, based on the total indicated in line 20. All quantities shown are estimates. The successful bidder shall be required to furnish quantities that may be more or less than the listed estimated quantities.
- 22.2. The County of Rockland reserves the right to take bids separately if a particular quantity requirement arises which exceeds its normal requirement, or an amount specified in the contracts; and
- 22.3. The County reserves the right to take bids separately if the Director of Purchasing approves a finding that the supply or service available under the contract will not meet a nonrecurring special need of the County of Rockland.
- 22.4. It is further understood and agreed to between the parties to the resulting contract that the County of Rockland shall not be obligated to either purchase or pay for supplies and services covered by such contract unless and until they are ordered and delivered to the County of Rockland.