

SECTION 2 - SPECIAL TERMS AND CONDITIONS

2.1 PURPOSE

The purpose of this Request to Qualify (RTQ) is to pre-qualify potential bidders for the purchase of units, parts, service and the installation of Liquid Level Control Systems on an as needed basis. All bidders that meet or exceed the criteria established in this Request to Qualify shall be included on a Pre-Qualification List that may be accessed by County departments.

Entry into the pre-qualification pool is not a contract between Miami-Dade County and any member of the pool, but rather is an acknowledgement that the pool member satisfies the pre-qualification criteria set forth below for membership in the pool. Pre-qualified vendors will be invited to participate in future spot market competitions. The pool shall remain open for the term of the RTQ, enabling bidders to qualify at any time after the initial RTQ opening date.

These bidders shall then be deemed to be pre-qualified to participate in subsequent Request for Quotation (RFQ) purchases as required by the County on either an as-needed or on a periodic basis.

2.2 TERM OF CONTRACT

This pre-qualification pool shall commence on the first calendar day of the month succeeding approval of the contract by the Board of County Commissioners, or designee, unless otherwise stipulated in the Notice of Award Letter which is distributed by the County's Procurement Management Division, and contingent upon the completion and submittal of all required bid documents. The pre-qualification pool shall remain in effect for five (5) years and shall expire on the last day of the five (5) years period.

2.3 OPTION TO RENEW

Miami-Dade County shall have the option to renew this pool for an additional five (5) years. Continuation of the contract beyond the initial period is a County prerogative, and not a right of the bidder. This prerogative may be exercised only when such continuation is clearly in the best interest of the County.

2.4 METHOD OF AWARD

All responsive, responsible vendors who meet the qualification criteria set forth in this solicitation shall be qualified to participate in future competitions as required by the County on an as-needed basis.

2.5 QUALIFICATION CRITERIA

Vendors shall submit all of the qualifying documents with their submittal form. However, the County may, at its sole discretion and in its best interests, allow vendors to supplement submitted documents in order to satisfy the prequalification criteria. It shall be the sole prerogative of the County to determine the number of vendors who will be included under the pre-qualification pool. During the term of the RTQ, the County reserves the right to add and/or delete pre-qualified vendors.

2.6 MINIMUM REQUIREMENTS

Bidder(s) shall comply with the following requirements:

- 2.6.1 Bids will only be accepted from bidders which have service facilities located in South Florida (defined as Dade, Broward, Palm Beach and Monroe Counties) which can provide prompt field service, parts and repairs on a timely manner if so required.

- 2.6.2 Contractor must be a verifiable manufacturer, or an approved or certified agent or distributor, or a designated distributor, or a stocking dealer, or a resale agent of the Original Equipment Manufacturer (OEM) products and parts, for the brands listed by the bidder in the bidder's submittal.

Contractor is required to submit with their submittal current letters from the manufacturers of the products proposed to the County. The letters must be published on the manufacturer's letterhead and they must designate the bidder as the manufacturer, an agent, a dealer, a representative or a distributor of the products proposed to the County. The letter must be dated within six (6) months of the bid submittal and it must be signed by an authorized manufacturer's representative

- 2.6.3 Contractor must have and maintain during the term of the contract, certification as a UL approved company. Proof of current UL certification shall be included with the bidder's submittal.

- 2.6.4 Contractor shall provide three (3) references, consisting of existing customers, shall be listed in the bidder's submittal. The references listed must be customers that are currently receiving or have recently received from the bidder the products and services described in this solicitation. The references must include the customer's company name, and the name, title, address, and telephone number of the contact person who can verify that the bidder has successfully provided the products and services described in this solicitation.

- 2.6.5 Contractor must employ technical personnel with at least three (3) years' experience trouble shooting and repairing liquid level systems for lift stations. Experience to include but not limited to service, installation, inspection and repair.

A list of the company's key technical personnel including their roles, qualifications and contact information shall be included with the bidder's submittal. The list must identify the shop manager and specify his/her qualifications. Include all pertinent documentation (i.e. certificates, proof of training, diplomas, and licenses) to proof that the technical personnel meet this requirement.

- 2.6.6 Contractor shall be equipped with modern office equipment, especially a dedicated facsimile (FAX) machine and an e-mail address. Both resources must be available twenty-four (24) hours a day to provide immediate technical support and expedite quotations.

2.6 INDEMNIFICATION AND INSURANCE

Contractor shall indemnify and hold harmless the County and its officers, employees, agents and instrumentalities from any and all liability, losses or damages, including attorneys' fees and costs of defense, which the County or its officers, employees, agents or instrumentalities may incur as a result of claims, demands, suits, causes of actions or proceedings of any kind or nature arising out of, relating to or resulting from the performance of this Agreement by the Contractor or its employees, agents, servants, partners principals or subcontractors. Contractor shall pay all claims and losses in connection therewith and shall investigate and defend all claims, suits or actions of any kind or nature in the name of the County, where applicable, including appellate proceedings, and shall pay all costs, judgments, and attorney's fees which may issue thereon. Contractor expressly understands and agrees that any insurance protection required by this Agreement or otherwise provided by Contractor shall in no way limit the responsibility to indemnify, keep and save harmless and defend the County or its officers, employees, agents and instrumentalities as herein provided.

The Contractor shall furnish to the Internal Services Department / Procurement Management Services, 111 NW 1st Street, Suite 1300, Miami, Florida 33128-1989, Certificate(s) of Insurance which indicate that insurance coverage has been obtained which meets the requirements as outlined below:

- A. Worker's Compensation Insurance for all employees of the Contractor as required by Florida Statute 440.
- B. Commercial General Liability on a Comprehensive basis including Products and Completed Operations in an amount not less than \$300,000 Combined Single Limit per occurrence for Bodily Injury and Property Damage. **Miami-Dade County must be shown as an additional insured with respect to this coverage.**
- C. Automobile Liability Insurance covering all owned, non-owned and hired vehicles used in connection with the work, in an amount not less than \$300,000 combined single limit per occurrence for bodily injury and property damage.

All insurance policies required above shall be issued by companies authorized to do business under the laws of the State of Florida, with the following qualifications:

The company must be rated no less than "A-" as to management, and no less than "Class VII" as to financial strength, by Best's Insurance Guide, published by A.M. Best Company, Oldwick, New Jersey, or its equivalent, subject to the approval of the County Risk Management Division.

or

The company must hold a valid Florida Certificate of Authority as shown in the latest "List of All Insurance Companies Authorized or Approved to Do Business in Florida" issued by the State of Florida Department of Financial Services.

**NOTE: CERTIFICATE HOLDER MUST READ: MIAMI-DADE COUNTY
111 NW 1ST STREET
SUITE 2340
MIAMI, FL 33128**

2.7 LABOR, MATERIALS, AND EQUIPMENT

Unless otherwise provided in any subsequent Request for Quote (RFQ), the submitters shall furnish all labor, material and equipment necessary for satisfactory contract performance. When not specifically identified in the specifications, such materials and equipment shall be of a suitable type and grade for the purpose. All material, workmanship, and equipment shall be subject to the inspection and approval of the County's Project Manager.

2.8 AVAILABILITY OF CONTRACT TO OTHER COUNTY DEPARTMENTS

Although this Solicitation is specific to various County Departments, it is hereby agreed and understood that any County department or agency may avail itself of this contract and purchase padlocks and security hardware from the successful bidders.

2.9 METHOD OF PAYMENT

Vendor(s) must submit an original invoice to the user departments, after a purchase has been completed, whether the specific service or item was picked up by authorized County personnel or delivered by the vendor.

All invoices must reference the corresponding delivery ticket number that was signed by the authorized representative of the user department. Invoices shall also reference the corresponding requisition information such as: order/small purchase number, requisition number, quantity, unit cost, and total cost. Failure to prepare and submit invoices in the prescribed manner shall delay payment.

Submittal of these periodic invoices shall not exceed thirty (30) calendar days from the delivery of the service/delivery. Invoices shall not be submitted to the Accounts Payable Unit in advance of the delivery and acceptance of the service or item.

2.10 ACCEPTANCE OF PRODUCT BY THE COUNTY

The products furnished by vendor(s) shall be maintained and delivered to the County in excellent condition. If a product does not meet specifications, the product shall be returned to the vendor and exchanged for the suitable merchandise or for full credit at no additional cost to the County. Vendor(s) shall be responsible for arranging all shipping or pick-up activities and shall bare all the cost incurred.

2.11 DELIVERIES

The contractor shall make deliveries within thirty (30) calendar days after the date that the County department orders the items. All deliveries shall be made in accordance with good commercial practice and shall be adhered to by the successful vendor(s); except in such cases where the delivery will be delayed due to acts of God, strikes, or other causes beyond the control of the vendor. In these cases, the vendor shall notify the County of the delays in advance of the delivery date so that a revised delivery schedule can be negotiated.

The County reserves the right to cancel the contract after any back order period which is specified in the Special Conditions has lapsed Contractor failure to deliver within forty-five (45) calendar days. If the contract is cancelled, it is hereby understood and agreed that the County has the authority to purchase the goods elsewhere and to charge the vendor with any re-procurement costs.

2.12 BACK ORDERS

The County shall not accept any back orders of deliveries from the vendor, unless written authorization is issued by Miami-Dade Water and Sewer Department (WASD). Accordingly, the vendor is required to deliver all items to WASD within the time specified in this solicitation; and no grace period shall be honored. In the event that the vendor fails to deliver the goods within the time specified, WASD reserves the right to cancel the order, seek the items from another vendor, and charge the vendor for any re-procurement costs.

2.13 WARRANTY

The Contractor shall warranty to the County that all materials and equipment furnished under the contract by the Contractor or his/her subcontractor will be of good quality and new, and that the Work shall be free from defects not inherent in the quality, required or permitted, and that the Work shall conform with the requirements of the Contract Documents. Work not conforming to these requirements, including substitutions not properly approved and authorized, will be considered defective. Any defective work must be repaired or replaced by the Contractor at no expense to the County for a period of one year after acceptance.

2.14 EMERGENCY SERVICE

The successful bidder shall provide 24 hours, 7 days a week Emergency Service to WASD under the contract. The Emergency Service shall be defined as a non-warranty related repair service requirement and its response time shall not exceed twenty-four (24) hours after notification by the WASD.

2.15 ANCILLARY PURCHASES

Although the County has identified units, equipment, parts, service and installation for Liquid Level Control Systems as the items to be purchased from this contract, there may be ancillary items that must be purchased during the term of this contract. Under these circumstances, a WASD representative will contact the contract vendors to obtain price quotes for the ancillary items. The County reserves the right to award these ancillary items to a contract vendor based on the lowest price quote or to bid the items through a separate solicitation.

2.16 SPARE PARTS AND IN-SHOP REPAIRS

The control system supplier shall provide a recommended spare parts lists with recommended stocking levels in order to enable WASD to properly maintain the system. The supplier shall offer these parts as a package. Vendors shall also provide alternate sources for repairs by offering an in-shop repairs service and/or a parts exchange program. Conditions for these services (i.e. labor charge, parts cost and mark up) must be listed in the vendor's quote.

2.17 PACKAGING REQUIREMENTS

The control and bubbler system shall be a standard integrated package, the existing and proven product of a recognized pump controller manufacturer. Its size shall not exceed one (1) cubic foot. The controller and bubbler shall be a modular unit so that it can be easily retrofitted into existing panels or moved from existing panels to new ones.



SECTION 3 – TECHNICAL SPECIFICATIONS

3.1 SCOPE OF WORK

This Request to Qualify (RTQ) will establish a pool of pre-qualified bidders capable of providing various Liquid Level Control Systems to be installed in various lift stations located throughout Miami-Dade County Waste/Water Treatment facilities. The various controller systems shall include but are not limited to the following:

- Universal Pump Controller
- Pressure / Booster Pump Controller
- Duplex & Triplex Backup Pump Controller
- Bubbler Pump Control / Level Transmitter

3.2 CONTROL SYSTEM TYPES

Universal Pump Controller

- Designed for water and wastewater systems using both, single speed or variable speed drives, for pump down or pump up applications.
- Controls up to 4 pumps with built in alternation and time delay between pump starts.
- Will control mix of single speed or variable speed drive pumps.
- Accepts 3 types of sensors including a bubbler system input, external 4-20ma input, or float switch inputs.
- Any sensor can be primary with one of the others as backup.
- High & low alarms, & pump set points adjustable on front panel.
- Up to four 4-20 ma outputs proportional to level.
- 2 RS-232 serial ports for SCADA and P.C. interfacing.
- Automatic bubbler control system with 2 air compressors running on demand charging an air tank, with automatic timed & flow purging for long life, reliability, and redundancy available as an option.

Pressure / Booster Pump Controller

- Designed for water systems using both, single speed or variable speed drives, for maintaining pressure, booster, and flow control applications.
- Field adjustable PID loop from front panel.
- Controls up to 4 pumps with built in alternation and time delay between pump starts.
- Will control mix of single speed or variable speed drive pumps.
- Accepts up to 8 isolated 4-20ma inputs.
- High & low pressure alarms, & pump set points adjustable on front panel.
- Up to four 4-20ma outputs for VFD speed or pressure.
- 2 RS-232 serial ports for SCADA and P.C. interfacing.
- Optional supply tank monitoring using bubbler, external 4-20ma transducer, or float switches.

Duplex & Triplex Backup Pump Controller

- Designed for wastewater collection systems to backup primary controllers for pump down applications and any other primary control backup for pump down applications.
- Provides fully redundant backup control system to protect against primary control or sensor failure.
- Will operate 1, 2 or 3 pumps with built in alternation and time delay between pump starts.
- Can operate from a single high float, or both high and off float, or a stand tube sensor option.
- Can also operate as primary float switch controller with up to 5 float switch inputs.

Bubbler Pump Control / Level Transmitter

- Designed for wastewater collection systems to feed 4-20 ma level signal to a PLC or RTU for control or level monitoring.
- Automatic bubbler control system with 2 air pumps running on demand, with automatic timed & flow purging for long life, reliability, and redundancy.
- 4-20 ma output proportional to level.
- High and low alarms with 15 amp relays.
- RS-232 serial port for SCADA and P.C. interfacing.
- Will measure depths up to 34'.

3.3 GENERAL CONDITIONS

1. WASD reserves the right to determine the equivalence and acceptability of any proposed system.
2. All components of the control system shall be designed for use in wastewater collection systems and must be compatible with the harsh environment normally associated with this type of application.
3. The manufacturer of the system shall present conclusive evidence to demonstrate their liquid level controller systems have satisfactorily sustained extensive testing and development under conditions existing at sewer pump stations and have operated satisfactorily at least fifty (50) sewer pump station applications for a minimum of two (2) consecutive years.
4. The system shall not include any mercury manometers or other components containing liquid mercury. The sole exception

3.4 SERVICE REQUIREMENTS

The Lift Station Control System shall be a fully automatic controller with the following general requirements:

1. The system shall control the available water pumps to maintain the liquid level within the limits determined for each station by the Water and Sewer Department. These limits shall be easily changed from the front panel of the controller.
2. The system shall measure the liquid level in the wet well using an air bubbler with dual air compressors, air tank, and automatic purging, (blow down).
3. The system shall detect and enunciate anomalous conditions in the lift station such as high water alarm, and air system failure.
4. The system shall upon detecting self-malfunction automatically switch to back up float control and provide a malfunction alarm signal.

3.5 TRAINING

The control system supplier shall make available to WASD personnel the necessary training to support occasional equipment installation, and operation and maintenance of the above specified equipment. The quantity of personnel to be trained shall be agreed upon at a later date. Conditions for these services (i.e. labor charges, cost of educational materials and mark up) must be listed in the vendor's quote.

3.6 WATER PUMP CONTROLS

The control system shall be designed to control the water pumps using relays connected to motor starters. The pumps shall be operated in a lead/lag mode with the turn-on and turn-off points for each pump individually programmable from the front panel. A pump alternator shall be provided which can be enabled

or disabled from the front panel. The wet well level is measured by the bubbler system. When the wet well level exceeds the lead channel on setpoint, the first pump is turned on. Normally this pumps the well level down to the lead channel off setpoint and the pump turns off. If the lead pump cannot handle the water flow, the level in the wet well will continue to rise until it reaches the lag channel on setpoint, at which time the lag pump also turns on. This process continues for all available pumps. If the alternate switch is on, then a different pump will be assigned as lead pump on each cycle. Each pump shall have an external disable input switch. If a pump is disabled, the system shall automatically call another pump as the lead pump. A high level alarm shall be built-in with their setpoints programmable from the front panel.

3.7 BUBBLER SYSTEM CONTROL

The control system shall measure the depth of water in the wet well and display it in inches or feet of water using an air bubbler system. The bubbler system shall be powered by two intermittent duty rated air compressors, which shall be alternatively energized to charge up an air tank, which shall supply the air for the bubbler. The air compressor shall only be on for the short period of time required to maintain pressure in the air tank and shall be alternated to equalize wear. Air from the air tank shall be sent to the bubbler tube through a flow-regulating device and the backpressure in the bubbler tube shall be measured by a pressure transducer to determine water depth. The system shall be designed to detect failures in the bubbler system, which would prevent proper operation. Detection of this system's failure shall illuminate a front panel lamp and be capable of automatically switching to an optional one or two float backup system(s).

3.8 AIR COMPRESSORS

The system shall include two piston type air compressors; Vibrator diaphragm compressors, (fish tank compressors), shall not be used. The compressors shall be selected for long life under intermittent duty and shall require no periodic lubrication. The compressors are used to charge an air tank and are alternately called on to replace the air used by the bubbler tube. A system shall be provided to detect the failure of either of the compressors a switch from one to the other. Indicators shall be provided on the front panel to indicate the failure of each compressor.

3.9 FLOW REGULATOR SYSTEM

The flow regulator system regulates the flow of air from the air tank to the bubbler tube. It shall provide a minimum of 2000 SCCM, (standard cubic centimeters per minute), of air to the bubbler tube. The system shall include an air filter to prevent the regulator from becoming blocked by dust and shall also include an automatic purging, (blow down), system for keeping the bubbler tube clear of blockages. This system shall use an air solenoid to vent the entire contents of the air tank to the bubbler tube. The depth measurement shall be frozen during this process to prevent erroneous reading and the flow regulator system regulates the flow of air from the air tank to the bubbler tube. It shall provide a minimum of 2000 SCCM, (standard cubic centimeters per minute), of air to the bubbler tube. The system shall include an air filter to prevent the regulator from becoming blocked by dust and shall also include an automatic purging, (blow down), system for keeping the bubbler tube clear of blockages. This system shall use an air solenoid to vent the entire contents of the air tank to the bubbler tube. The depth measurement shall be frozen during this process to prevent erroneous reading and improper pump calls. The system shall be designed so that the purging process does not over pressurize the bubbler pressure transducer. The purging process shall be initiated in any one of four ways:

1. The controller shall be designed to periodically initiate a purge. The interval between these purges shall be set using the front panel for a purge interval of between 1 and 10 hours.
2. The controller shall be designed to initiate a manual purge from the front panel.
3. The controller shall include a system to measure the air flow in the bubbler tube. If the air flow drops below 50% of normal flow, an automatic purge shall be initiated.
4. The controller shall initiate a purge upon power-up so that after a power loss, the unit will automatically purge.

The system shall have the capability to display the relative bubbler system air flow.

3.10 ALARMS

The controller shall be designed to detect and indicate the following conditions:

1. Self-diagnose failure and inoperative condition. It shall have a high water and low water alarm systems. The high and low setpoints shall be entered from the front panel and be easily changed in the field. If the water level exceeds the high alarm setpoint, then an indicator will light and a relay contact will close. If the water level is less than the low alarm setpoint then the low alarm indicator will light and a relay contact will close. Alarms shall reset automatically upon restoration of normal operating levels. Manual reset of high or low level alarms shall not be necessary. In case of power failures, the controller shall return to normal operation once power is restored, without requiring manual reset from an operator.
2. The controller shall detect the failure of either of the air compressors and illuminate the associated air compressor fail light.
3. The controller shall detect failures which prevent the air system from proper operation and display this condition on a system error light.

