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City of Phenix City
Specifications for Bid # U18-01
Dry and Liquid Polymer for the WWTP Belt Press and RDT's

The City of Phenix City Waste Water Treatment Plant (WWTP) will be using dry and liquid polymers. The following criteria will be used in evaluating proposals sent back to the City of Phenix City:

1. Except as otherwise provided in this contract, during the contract period, the City of Phenix City shall purchase all polymer for the WWTP Belt Press and Rotary Drum Thickerener (RDT) Andritz Units from the Contractor.
2. Within 5 business days of being awarded the bid, the successful bidder shall acquire a City of Phenix City business license. If the successful bidder does not acquire said business license within 5 business days of being awarded the bid, said bidder shall lose the bid and the City of Phenix City shall award the bid the next successful bidder.
3. It is estimated that 9,000lbs of Dry Polymer and 82,440lbs of Liquid Polymer will be required in the operation of the Waste Water Treatment Plant (WWTP) during the period May 1, 2018 – September 30, 2019. Exact quantities cannot now be determined, but estimates are given. Quantities listed may be increased or decreased to meet the requirements of the City of Phenix City during the contract period. A minimum is not guaranteed.
4. A purchase order will be awarded as a result of this invitation for bid for the time period from when the bid is awarded on May 1, 2018 – September 30, 2019. The City of Phenix City will issue verbal release orders for each shipment under the contract. Prices quoted shall not change for the entire term of the contract.
5. (Dry Polymer) There is one 2.2 meter belt filter press being utilized for sludge dewatering. Each proposed polymer is to be evaluated and supporting data submitted to specified City personnel to determine the most economical polymer or polymers that produce a final cake with optimum solids content of 20%, while maintaining a minimum sludge production rate through the press of 1 ton per hour.



6. (Liquid Polymer) There is (2) RDT's Andritz Units for thickening the Primary Sludge and Waste Activated Sludge (WAS). Samples of sludge (Primary Sludge and WAS) shall be present for jar testing. The City will be looking at the following criteria for the liquid polymer:
 - Emulsion polymer with the lowest cost \$/dry ton while maintaining 5-6% T.S. thickened solids concentration and 98% Solids recovery.
7. All proposed polymers must be tested and qualified by the City following the submittal of proposals. The qualification process shall include but not be limited to the following:
 - a. Product Selection: The City shall select one polymer for the contract term. However, vendors may propose a maximum of 2 polymers for qualification testing. The proposed polymer (Dry) shall be quoted at unit cost per pound and (Liquid) at pounds of active polymer listed on the bid sheet times (x) bid price per pound of active polymer equals (=) total cost of active polymer per year. The City will use the following to determine the total contract cost for the polymer bid:
 - i. Dosage in pounds per dry ton
 - ii. Suspended Solids from the press filtrate
 - iii. Gallons per hour of sludge treated
 - iv. % Solids of Sludge Cake
 - v. Cost of polymer per a dry ton of solids
 - b. Laboratory Testing: All bidders shall arrange for site testing of their products for the purpose of determining which products they intend to bid on. Testing shall be limited to jar testing only. Contact Jeremie Caldwell or Charles Woody at 334-291-4736. The WWTP will provide laboratory space for all vendors to test their polymers prior to proposal due date. It will be the responsibility of the vendors to determine the best polymer or polymers they have available for the conditioning of the sludge.
 - c. The Qualification Test: All testing shall take place during the time period of Monday, March 5, 2018 – Thursday, April 5, 2018. However if a prospective bidder's proposed product arrives at the treatment plant prior to the product prequalification startup date. The vendor may request from the Treatment Plant Superintendent to start their testing process early and these requests will be granted if operating conditions so permit. No time extension will be granted for the test process unless equipment failures, process upsets or other conditions



- within the treatment plant beyond control of the vendor prevent completion of the scheduled test. In that event the test will be rescheduled for the first available production day.
- d. Prospective bidders shall be assigned laboratory and field test schedules on a first come first serve basis. Each vendor will be granted a maximum of 1 day of test time for each product tested for a maximum of four days to complete the tests. There will be no exception to this requirement. Vendors are urged to contact the City as soon as possible to assure acceptable test period scheduling.
 - e. The field testing of polymers will be performed and evaluated by City personnel only. (Note: No exceptions to this condition will be granted). Each polymer will be tested equally under the same test conditions with no deviation from stated test conditions during the test period. A vendor representative may be present to witness the test procedure and answer any questions the City may have for handling of their product. The vendor will not take part in the actual test procedure. Note: All tests will be performed Monday – Friday from 8:00 am EST. – 3:00pm EST.
8. The vendor will be responsible for providing the following at no cost to the City:
- a. Polymers in necessary quantities (50lb bags, dry or 5 gal pales, liquid only) for the duration of the test period. There shall be no exception to this requirement.
 - b. The supplier will provide all polymers for these tests. Our experience indicates that approximately 50 lbs. will be necessary for a day’s run.
 - c. Any shipping cost to and from the City test location.
9. Vendors will become qualified when their product demonstrates the following:
- a. Must produce a dewatered sludge cake of a minimum of 20% solids. Polymers that fail to meet these requirements will not be considered.
 - b. Sludge cake dewatering rate greater than 8.000 lbs. /hr.
 - c. Each vendor will be granted 1 testing day per product tested. Feed rate will be based on the percent of dry solids feed, the pump capacity, and the percent speed. Samples will be grabbed after stabilization to determine the average cake of solids and % capture at flow rate. Polymer usage will be measured by scale to determine polymer dose at each flow rate.
 - d. Each vendor must submit a Certificate of Analysis that includes active product concentration.



10. The vendor shall agree to provide the services of the field representative for on-site performance evaluation and consultation when requested. The vendor shall provide the City with names of two company maintenance personnel, along with two contact numbers who are available for emergency situations. The vendor shall provide the City with all product related safety information and MSDS.

11. The intent of the City is to purchase and use the successful vendor's product throughout the period designated. However, regulatory requirements and changes in sludge characteristics may justify the need to consider other products. If so, the current supplier will first be given the opportunity to provide alternate products at or below the current cost. If this cannot be accomplished, the City of Phenix City reserves the right to use the next lowest vendor from the bids placed and the product they bided will be requested for an alternate. Issuance of an evaluation and Purchase Order for the polymer(s) specified in this document is not intended to prevent the evaluation and purchase of additional products.

12. The successful vendor shall cooperate with the City of Phenix City in supplying any quantity of product that is needed or requested. The City of Phenix City reserves the right to refuse, delay or limit delivery at the time of delivery. The City of Phenix City will not be responsible to pay demurrage for any reason. The vendor shall supply Polymer within a lead time of 10 business days of when the order is placed.

13. Schedule:
 - a. March 2, 2018: Mail Specifications
 - b. March 5, 2018 – April 5, 2018: Testing
 - c. April 12, 2018, 10:00am Eastern: Bids Due
 - d. May 1, 2018: Award Bid

14. Bid Price: _____ per pound (Dry)
_____ per pounds of active polymer listed on the bid sheet times
(x) bid price per pound of active polymer equals (=) total cost of active polymer per year
(Liquid)



15. Information

- a. For information in responding to this Invitation for Bids prospective bidders may contact the City of Phenix City Purchasing Agent, Seprona James at (334)448-2735.
- b. To be considered, bids must be received at the City of Phenix City's Purchasing Office.