

**City of Phenix City**  
**Specifications for Bid# UT21-01**  
**Liquid Chlorine**  
**And**  
**Sulfur Dioxide**

**1. General Terms and Conditions**

- a. Except as otherwise provided in this contract, the City of Phenix City shall order from the Contractor all Chlorine and Sulfur Dioxide required to be purchased by the City of Phenix City during the contract period.
- b. 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.
- c. It is estimated that 90 tons of chlorine and 10 tons of Sulfur Dioxide will be required in the operation of the Water Filtration Plant (WFP) and Waste Water Treatment Plant (WWTP) during the period October 1, 2021 – September 30, 2022. 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.
- d. A purchase order for the period of October 1, 2021 – September 30, 2022 inclusive will be awarded as a result of this invitation for bid. 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.
- e. Product shall be delivered in one (1) Ton net weight containers to either the City of Phenix City WFP (1100 32<sup>nd</sup> St. Phenix City, Al. 36867) or WWTP (1600 East State Docks Rd. Phenix City, Al. 36869) as directed within five (5) days following the request for each delivery. Deliveries shall include unloading of said containers at the WFP dock and under the WWTP monorail crane system. Deliveries will be accepted **only between the hours of 8:00am EST through 2:30pm EST (latest). Monday through Friday (No Exceptions).**
- f. The City of Phenix City will receive chlorine and sulfur dioxide only under the following conditions:
  - i. The delivery truck must be equipped with hoisting capabilities and the **delivery driver will be responsible for off-loading the containers onto the dock or under the monorail system.** The delivery driver must be familiar with the hoisting equipment and be able to safely off-load the containers. Any unsafe off-loading conditions will be grounds for rejection of the shipment.
  - ii. A shipment of containers using a chain boom for securing the containers on the truck will be, rejected if the chain boom cannot be released by hand without the aid of a "cheater pipe."
  - iii. Containers will be inspected upon delivery. The containers will be off-loaded onto the dock. The valve covers (bonnets) will be removed by the operators and the valves inspected for leaks.

- iv. Each valve cap on each container will be loosened and the valve re-tested for leaks. The container will also be inspected for physical damage. This includes any corrosion that is noticeable around the valve or fittings.
  - v. The Risk Management Program (RMP) requires that a container will be returned if the container:
    - 1. Has physical damage
    - 2. Has a valve that has a leak under the valve cap and the leak cannot stop by retightening the cap
  - vi. Should a container have a leak that cannot be secured for return, the container will be secured at the dock using the plant's "B" kit. The contractor will be required to remediate the defective container.
  - g. The City of Phenix City reserves the right to purchase Chlorine and Sulfur Dioxide from another source if successful bidder is unable to deliver Chlorine or Sulfur Dioxide within five (5) business days of the date of the order.
  - h. The Contract may be canceled by either party with 30 days written notice for failure to comply with the provisions of this contract.
  - i. Bids will be considered only from manufacturers or their authorized distributors. The authorized distributors must regularly maintain a substantial stock of the Chlorine and Sulfur Dioxide bid upon and must be actively engaged in the sale of Chlorine and Sulfur Dioxide. Such stock and facilities may be examined by a representative of the City of Phenix City at any time either before award is made or during the life of the contract.
  - j. The City of Phenix City reserves the right to reject any and all bids or portions of bids, waive formalities and to make such award of contract as may be deemed to be the most advantageous for the City of Phenix City. No bids may be withdrawn within thirty (30) days after date of opening.
  - k. Any required deposits, container fees or other special fees shall be noted on the proposal.
  - l. The contractor will provide documentation on its driver training program developed to ensure they fully understand the safety and health hazards of the hazardous substances they are delivering and the handling equipment they operate in order to protect themselves, the City's staff, citizens living near the facility, and the environment.
  - m. The contractor shall provide documentation on its hoist equipment inspection and maintenance program developed to assure the hoist is maintained according to the manufacturers and OSHA standards. In addition, the contractor shall provide documentation that their drivers are certified to use their hoist equipment and that the training, certification and maintenance documentation is up to date.
  - n. The supplier shall furnish Material Safety Data Sheets (MSDS) for the specified chlorine and sulfur dioxide immediately upon the first delivery. The MSDS shall be updated as required by law or if warranted by any manufacturer or product change.
- 2. Specifications for Liquid Chlorine**
- a. Chlorine bid must be in compliance with AWWA B301, Standard for Liquid Chlorine.
  - b. Bidder must include with the bid submitted an Affidavit stating that the liquid chlorine furnished under this contract complies with all applicable standards and requirements of AWWA B301, Standard for Liquid Chlorine.
  - c. NSF 60 approved with documentation supplied with each shipment.

- d. Purity: 99.5% chlorine minimum
- e. Water: 50 parts per million (ppm) maximum

**3. Specifications for Sulfur Dioxide**

- a. Sulfur dioxide shall meet requirements of AWWA Standard B512-08.
- b. Chemical Analysis

Product makeup	Guaranteed	Typical
SO <sub>2</sub>	99.9% Minimum	99.99%
Water	100 ppm Maximum	70 ppm
Nonvolatile	50 ppm Maximum	6 ppm
SO <sub>3</sub>	10 ppm Maximum	1 ppm
Elemental Sulfur	10 ppm Maximum	5 ppm
Total Metals	30 ppm Maximum	
Pb	10 ppm	
Fe	10 ppm	
As	3 ppm	
Se	3 ppm	

**4. Insurance Requirements**

- a. The Supplier will be required to furnish the City with the following insurance policies prior to final award of contract:
  - i. Workman's Compensation Statutory Limits
  - ii. General Liability
    - 1. \$500,000/bodily injury
    - 2. \$100,000/property damage
    - 3. \$250,000/each person
  - iii. Auto Public Liability
    - 1. \$250,000/person
    - 2. \$500,000/accident or occurrence
    - 3. \$100,000/property damage
  - iv. Product Liability
    - 1. \$1,000,000/occurrence

**5. Information**

- a. For information in responding to this Invitation for Bids, prospective bidders may contact the City of Phenix City's Finance Department at (334)448-2730 or via email at [financepurchasing@phenixcityal.us](mailto:financepurchasing@phenixcityal.us).
- a. To be considered, bids must be received at the City of Phenix City's Finance Department.
- b. Schedule:
  - i. Mail out specs Monday, June 14, 2021
  - ii. Bids are due to the City by 10:00am on Thursday, September 9, 2021
  - iii. Award the bids on Tuesday, October 5, 2021

**6. Bid:**

Chlorine \$ \_\_\_\_\_ Ton      Sulfur Dioxide \$ \_\_\_\_\_ Ton

**City of Phenix City**  
**Specifications for Bid # UT21-01**  
**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 Thickener (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 73,600lbs of Liquid Polymer will be required in the operation of the Waste Water Treatment Plant (WWTP) during the period October 1, 2021 – September 30, 2022. 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 October 1, 2021 – September 30, 2022. 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 Cody Gray or Jared Barker 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, June 14, 2021 – Thursday, September 3, 2021. 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. Monday, June 14, 2021: Mail Specifications
- b. Monday, June 21, 2021 – Thursday, September 3, 2021: Testing
- c. Thursday, September 9, 2021, 10:00am Eastern: Bids Due
- d. Tuesday, October 5, 2021: 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's Finance Department at (334)448-2730 or via email at [financepurchasing@phenixcityal.us](mailto:financepurchasing@phenixcityal.us) .
- b. To be considered, bids must be received at the City of Phenix City's Finance Department.

**City of Phenix City  
Specifications for  
Aluminum Sulfate**

**I. General Terms and Conditions**

1. Except as otherwise provided in this contract, the City of Phenix City shall order from the Contractor all Aluminum Sulfate required to be purchased by the City of Phenix City during the contract period. The vendor will be responsible to get a business license with the city.
2. It is estimated that 400,000 lbs. of Aluminum Sulfate will be required in the operation of the Water Filtration Plant during the period October 1, 2021 – September 30, 2022. 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.
3. A purchase order for the period of October 1, 2021 – September 30, 2022 inclusive will be awarded as a result of this invitation for bid. Prices quoted shall remain firm for the entire term of the contract.
4. Deliveries are to be made to the City of Phenix City Water Filtration Plant within 5 days following request for each delivery. Deliveries will be accepted only between the hours of 8:00 am through 2:00 pm est. Monday through Friday (No Exceptions).
5. The City of Phenix City reserves the right to purchase Aluminum Sulfate from another source if successful bidder is unable to deliver within the specified delivery time.
6. The Aluminum Sulfate must be bid in lbs. dry weight, bids based on Gallons will not be accepted.



7. The Contract may be canceled by either party with 30 days written notice for failure to comply with the provisions of this contract.
  
8. Bids will be considered only from manufacturers or their authorized distributors. The authorized distributors must regularly maintain a substantial stock of the bid upon and must be actively engaged in the sale of Aluminum Sulfate. Such stock and facilities may be examined by a representative of the City of Phenix City at any time either before award is made or during the life of the contract.
  
9. The City of Phenix City reserves the right to reject any and all bids or portions of bids, waive formalities and to make such award of contract as may be deemed to be the best advantage of the City. No bids may be withdrawn within thirty (30) days after date of opening.
  
10. Any required deposits, or other special fees shall be noted on the proposal.
  
11. The contractor will provide documentation on its driver training program developed to ensure they fully understand the safety and health hazards of hazardous substances they are delivering and the handling equipment they operate in order to protect themselves, the City's staff, citizens living near the facility, and the environment.

Material Safety Data Sheets: The supplier shall furnish Material Safety Data Sheets for the specified Aluminum Sulfate immediately upon the first delivery. The MSDS shall be updated as required by law or if warranted by any manufacturer or product change.

## **II Specifications for Aluminum Sulfate**

1. Bid must be in compliance with AWWA **B403-03**, Standard for Aluminum Sulfate.
2. Bidder must include with the bid submitted an Affidavit stating that the Aluminum Sulfate furnished under this contract complies with all applicable standards and requirements of AWWA **B403-03**, Standard for Aluminum Sulfate.
3. Aluminum Sulfate shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been treated properly with stated product.
4. The specific impurity limits are as follows. The total water-soluble iron (expressed as Fe<sub>2</sub>O<sub>3</sub>) content of Aluminum Sulfate shall be no more than 0.75% in a basis of 17% Al<sub>2</sub>O<sub>3</sub> (9% as Al), in dry Aluminum Sulfate or 0.35% on a basis of 8.0% Al<sub>2</sub>O<sub>3</sub> (4.23% as Al), in liquid Aluminum Sulfate.
5. Aluminum Sulfate is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with, or treatment of, drinking water by accredited certification organization in accordance with ANSI/NSF Standards Institute.
6. Deliveries: As needed with five (5) days' notice to the Phenix City Water Filtration Plant located at 1100 32<sup>nd</sup> St., Phenix City, Alabama 36867.  
Received between the hours of 8a.m. and 2p.m. Eastern Standard Time

### III Insurance Requirements

The Supplier will be required to furnish the City with the following insurance policies prior to final award of contract:

#### Workman's Comp. Statutory Limits

General Liability	\$500,000 /bodily injury \$100,000 /property damage \$250,000 /each person
Auto Public Liability	\$250,000 /person \$500,000 / Accident or occurrence \$100,000 /property damage
Product Liability	\$1,000,000 /occurrence

### IV Information

1. For information in responding to this Invitation for Bids prospective bidders may contact the City of Phenix City Purchasing Agent, Brittany Jordan (334)448-2739.
2. To be considered, bids must be received at the City of Phenix City's Purchasing Office.

### V Bid Amount from Vendor

Price per lb. of Aluminum Sulfate \_\_\_\_\_

**City of Phenix City**  
**Specifications for**  
**Soda Ash**  
**Granular Soda Ash (Sodium Carbonate Anhydrous)**

**I. General Terms and Conditions**

1. Except as otherwise provided in this contract, the City of Phenix City shall order from the Contractor all Soda Ash required to be purchased by the City of Phenix City during the contract period. The vendor will be responsible to get a business license with the city.
2. It is estimated that 700,000 lbs. of Soda Ash will be required in the operation of the Water Filtration Plant during the period October 1, 2021- September 30, 2022. 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.
3. A purchase order for the period of October 1, 2021- September 30, 2022 inclusive will be awarded as a result of this invitation for bid. Prices quoted shall remain firm for the entire term of the contract.
4. Deliveries are to be made to the City of Phenix City Water Filtration Plant within 5 days following request for each delivery. Deliveries will be accepted only between the hours of 8:00 am through 2:00 pm est. Monday through Friday (No Exceptions).
5. The City of Phenix City reserves the right to purchase Soda Ash from another source if successful bidder is unable to deliver within the specified delivery time.
6. The Soda Ash must be bid in lbs. dry weight.

7. The Contract may be canceled by either party with 30 days written notice for failure to comply with the provisions of this contract.
  
8. Bids will be considered only from manufacturers or their authorized distributors. The authorized distributors must regularly maintain a substantial stock of the bid upon and must be actively engaged in the sale of Soda Ash. Such stock and facilities may be examined by a representative of the City of Phenix City at any time either before award is made or during the life of the contract.
  
9. The City of Phenix City reserves the right to reject any and all bids or portions of bids, waive formalities and to make such award of contract as may be deemed to be the best advantage of the City. No bids may be withdrawn within thirty (30) days after date of opening.
  
10. Any required deposits, or other special fees shall be noted on the proposal.
  
11. The contractor will provide documentation on its driver training program developed to ensure they fully understand the safety and health hazards of hazardous substances they are delivering and the handling equipment they operate in order to protect themselves, the City's staff, citizens living near the facility, and the environment.

Material Safety Data Sheets: The supplier shall furnish Material Safety Data Sheets for the specified Soda Ash immediately upon the first delivery. The MSDS shall be updated as required by law or if warranted by any manufacturer or product change.

## **II Specifications for Soda Ash**

1. Bid must be in compliance with AWWA B201-82, Standard for Soda Ash.
2. Bidder must include with the bid submitted an Affidavit stating that the Soda Ash furnished under this contract complies with all applicable standards and requirements of AWWA B201-82, Standard for Soda Ash .

## **III Insurance Requirements**

The Supplier will be required to furnish the City with the following insurance policies prior to final award of contract:

Workman's Comp. Statutory Limits

General Liability

\$500,000 /bodily injury  
\$100,000 /property damage  
\$250,000 /each person

Auto Public Liability

\$250,000 /person  
\$500,000 / Accident or occurrence  
\$100,000 /property damage

Product Liability

\$1,000,000 /occurrence

## **IV Information**

1. For information in responding to this Invitation for Bids prospective bidders may contact the City of Phenix City Purchasing Agent, Brittany Jordan (334)448-2739.
2. To be considered, bids must be received at the City of Phenix City's Purchasing Office.

## **V Bid Amount from Vendor**

Price per lb. of Soda Ash \_\_\_\_\_

**City of Phenix City  
Specifications for  
Hydrofluosilicic Acid**

**I. General Terms and Conditions**

1. Except as otherwise provided in this contract, the City of Phenix City shall order from the Contractor all Hydrofluosilicic Acid required to be purchased by the City of Phenix City during the contract period. The vendor will be responsible to get a business license with the city.
2. It is estimated that 100,000 lbs. of Hydrofluosilicic Acid will be required in the operation of the Water Filtration Plant during the period October 1 2021- September 30, 2022. 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.
3. A purchase order for the period of October 1, 2021 – September 30, 2022 inclusive will be awarded as a result of this invitation for bid. Prices quoted shall remain firm for the entire term of the contract.
4. Deliveries are too be made to the City of Phenix City Water Filtration Plant within 5 days following request for each delivery. Deliveries will be accepted only between the hours of 8:00 am through 2:00 pm est. Monday through Friday (No Exceptions).
5. The City of Phenix City reserves the right to purchase Hydrofluosilicic Acid from another source if successful bidder is unable to deliver within the specified delivery time.
6. The Hydrofluosilicic Acid **must be bid in lbs. dry weight.**

7. The Contract may be canceled by either party with 30 days written notice for failure to comply with the provisions of this contract.
  
8. Bids will be considered only from manufacturers or their authorized distributors. The authorized distributors must regularly maintain a substantial stock of the bid upon and must be actively engaged in the sale of Hydrofluosilicic Acid. Such stock and facilities may be examined by a representative of the City of Phenix City at any time either before award is made or during the life of the contract.
  
9. The City of Phenix City reserves the right to reject any and all bids or portions of bids, waive formalities and to make such award of contract as may be deemed to be the best advantage of the City. No bids may be withdrawn within thirty (30) days after date of opening.
  
10. Any required deposits, or other special fees shall be noted on the proposal.
  
11. The contractor will provide documentation on its driver training program developed to ensure they fully understand the safety and health hazards of hazardous substances they are delivering and the handling equipment they operate in order to protect themselves, the City's staff, citizens living near the facility, and the environment.
  
12. Material Safety Data Sheets: The supplier shall furnish Material Safety Data Sheets for the specified Hydrofluosilicic Acid immediately upon the first delivery. The MSDS shall be updated as required by law or if warranted by any manufacture or product change.



## **II Specifications for Hydrofluosilicic Acid**

1. Bid must be in compliance with B703-89, AWWA Standard for Hydrofluosilicic Acid.
2. Bidder must include with the bid submitted an Affidavit stating that the Hydrofluosilicic Acid furnished under this contract complies with all applicable standards and requirements of B703-89, AWWA Standard for Hydrofluosilicic Acid.

	<b>MAX.</b>	<b>MIN.</b>
<b>Assay:m/ H2SiF6</b>	<b>25.00</b>	<b>23.00</b>
<b>Total Fluoride: 0/0m/m F</b>	<b>19.78</b>	<b>18.20</b>
<b>Specific Gravity @ 60 degrees F</b>	<b>1.265</b>	<b>1.208</b>
<b>Free Acid (not H@SiFe):0/0 m/m Pb</b>	<b>&lt;0.02</b>	<b>0.00</b>
<b>Phosphate (as Pz06):0/0 m/m Pz06</b>	<b>0.075</b>	<b>0.000</b>
<b>Chloride: 0/0m/m Cl</b>	<b>.50</b>	<b>0.00</b>

### III Insurance Requirements

The Supplier will be required to furnish the City with the following insurance policies prior to final award of contract:

#### Workman's Comp. Statutory Limits

General Liability

\$500,000 /bodily injury

\$100,000 /property damage

\$250,000 /each person

Auto Public Liability

\$250,000 /person

\$500,000 / Accident or occurrence

\$100,000 /property damage

Product Liability

\$1,000,000 /occurrence

### IV Information

1. For information in responding to this Invitation for Bids prospective bidders may contact the City of Phenix City Purchasing Agent, Brittany Jordan (334)448-2739.
2. To be considered, bids must be received at the City of Phenix City's Purchasing Office.

### V Bid Amount from Vendor

Price per lb. (dry weight) of Hydrofluosilicic Acid \_\_\_\_\_

**City of Phenix City  
Specifications for  
Poly Aluminum Chloride**

**I. General Terms and Conditions**

1. Except as otherwise provided in this contract, the City of Phenix City shall order from the Contractor all Poly Aluminum Chloride (PAC) required to be purchased by the City of Phenix City during the contract period. The vendor will be responsible to get a business license with the city.
2. It is estimated that 400,000 lbs. of PAC will be required in the operation of the Water Filtration Plant during the period October 1, 2021 – September 30, 2022. 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.
3. A purchase order for the period of October 1, 2021 – September 30, 2022 inclusive will be awarded as a result of this invitation for bid. Prices quoted shall remain firm for the entire term of the contract.
4. Deliveries are to be made to the City of Phenix City Water Filtration Plant within 5 days following request for each delivery. Deliveries will be accepted only between the hours of 8:00 am through 2:00 pm est. Monday through Friday (No Exceptions).
5. The City of Phenix City reserves the right to purchase PAC from another source if successful bidder is unable to deliver within the specified delivery time.
6. The PAC **must be bid in lbs.** dry weight, bids based on Gallons will not be accepted.
7. The Contract may be canceled by either party with 30 days written notice for failure to comply with the provisions of this contract.

8. Bids will be considered only from manufacturers or their authorized distributors. The authorized distributors must regularly maintain a substantial stock of the bid upon and must be actively engaged in the sale of PAC. Such stock and facilities may be examined by a representative of the City of Phenix City at any time either before award is made or during the life of the contract.
9. The City of Phenix City reserves the right to reject any and all bids or portions of bids, waive formalities and to make such award of contract as may be deemed to be the best advantage of the City. No bids may be withdrawn within thirty (30) days after date of opening.
10. Any required deposits, or other special fees shall be noted on the proposal.
11. The contractor will provide documentation on its driver training program developed to ensure they fully understand the safety and health hazards of hazardous substances they are delivering and the handling equipment they operate in order to protect themselves, the City's staff, citizens living near the facility, and the environment.
12. Material Safety Data Sheets: The supplier shall furnish Material Safety Data Sheets for the specified PAC immediately upon the first delivery. The MSDS shall be updated as required by law or if warranted by any manufacturer or product change.
13. Certificate of Analysis: The supplier shall furnish Certificate of Analysis for the specified PAC immediately upon arrival of each delivery. The Certificate of Analysis must include all of the following product specifications.
  - Alumina; % Al<sub>2</sub>O<sub>3</sub>
  - Basicity
  - Specific Gravity
  - Physical Appearance, containing no foreign bodies

## II Specifications for Poly Aluminum Chloride

1. PAC Bid must be directly comparable with CedarCLEAR® 722. Any alternative bid will not be considered without laboratory testing in FOUR (4) consecutive quarters by the supplier. The supplier will also be asked to leave appropriate amounts of product for Phenix City staff to test within their lab in a controlled side-by-side Jar Test with the aforementioned chemical. Alternate coagulant must complete all aspects of the approval process before it will be considered by Phenix City.
2. Laboratory Testing: All bidders shall arrange for on-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 Mike Smisek or Michael Ballstaedt at 334-291-4757. The WFP will provide laboratory space for all vendors to test their PAC prior to proposal due date. It will be the responsibility of the vendors to determine the best PAC they have available for the coagulation process.
3. Bid must be in compliance with AWWA **B403-03**, Standard for PAC.
4. Bidder must include with the bid submitted an Affidavit stating that the PAC furnished under this contract complies with all applicable standards and requirements of AWWA **B403-03**, Standard for PAC.
5. PAC shall contain no soluble material or organic substances, including polymer, in quantities capable of producing deleterious or injurious effects on the health of those consuming water that has been treated properly with stated product.
6. Poly Aluminum Chloride must have the following typical value:
  - Alumina,% A12O3 10.5% - 11.1%
  - Specific Gravity: 1.255-1.285
  - Basicity, %: 65-69 -Using test method ANSI/AWWA B408-93 Sec. 5.5
  - Chloride (Cl),%: 9.7-11.0- Using testing method ANSI/AWWA B408-93 Sec. 5.7
  - Sulfate (SO4) %: 3.7-4.7- Standard methods for the analysis of water and wastewater 20<sup>th</sup> Ed.4500-SO4<sub>2</sub>- D.
  - Minimum Shelf Life: Six (6) Months, without sediment in bulk storage tank.

7. PAC is a direct additive used in the treatment of potable water. This material should be certified as suitable for contact with, or treatment of, drinking water by accredited certification organization in accordance with ANSI/NSF Standards Institute.
  
8. Deliveries: As needed with five (5) days' notice to the Phenix City Water Filtration Plant located at 1100 32<sup>nd</sup> St., Phenix City, Alabama 36867.  
Received between the hours of 8a.m. and 2p.m. Eastern Standard Time

**III Insurance Requirements**

The Supplier will be required to furnish the City with the following insurance policies prior to final award of contract:

Workman's Comp. Statutory Limits	
General Liability	\$500,000 /bodily injury \$100,000 /property damage \$250,000 /each person
Auto Public Liability	\$250,000 /person \$500,000 / Accident or occurrence \$100,000 /property damage
Product Liability	\$1,000,000 /occurrence

**IV Information**

1. For information in responding to this Invitation for Bids prospective bidders may contact the City of Phenix City Purchasing Agent, Brittany Jordan (334)448-2739.
2. To be considered, bids must be received at the City of Phenix City's Purchasing Office.

**V Bid Amount from Vendor**

**Price per lb. of Poly Aluminum Chloride \_\_\_\_\_**