

## NOTICE TO PUBLIC

The City of Athens, Texas will accept sealed bids until 11:00 a.m., Wednesday, October 25, 2017 in the Office of the City Secretary, 508 East Tyler Street, Athens, Texas 75751. Bids will then be publicly opened and read aloud in the Conference Room of the Athens City Hall, 508 East Tyler Street, Athens, Texas for the following:

### **Chemicals for use in the City of Athens Utilities Department**

Bids will be awarded by the Athens City Council during their Regular Session. Successful bidders will be notified of the time and date.

Copies of the minimum specifications are available in the Office of the City Secretary. The City of Athens reserves the right to reject any and/or all bids and to waive formalities.

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Bonnie Hambrick  
City Secretary

# **City of Athens**

## **Chemicals**

Section I: Bid Notice

Section II: General Specifications

Section III: Bid Sheet

# **SECTION I BID NOTICE**

The City of Athens is presently taking sealed bids for chemicals for use in the City's Utilities Department.

Specifications may be picked up at Athens City Hall, 508 E. Tyler St., Athens, Texas and all bids shall be received in the City Secretary's Office in a sealed envelope marked "Bid-Chemicals" until 11:00 a.m., Wednesday, October 25, 2017 at which time they shall be opened and read aloud.

The City of Athens reserves the right to reject any and all bids.

## SECTION II GENERAL SPECIFICATIONS CHEMICALS

### GENERAL

- 1) All Chemicals must meet American Water Works Association's (AWWA) latest specifications for the treatment of potable water.
- 2) Chemicals are for no longer than a period of 12 months from bid award.
- 3) Chemicals will be billed as delivered.
- 4) Amounts ordered per year may be less or more than amount bid.
- 5) There shall be no charge billed for chemicals not used if less than bid.
- 6) Total amount may be ordered at one time or lesser amount throughout the year.
- 7) FOB, 508 E. Tyler St., Athens, Texas; Water plant or Wastewater treatment plant.
- 8) MSDS sheet on each item bid shall be required.

### SPECIAL:

- 1) All prices shall include: containers, drums, pallet, freight, rent, lease, and/or empty turnaround.
- 1) There may be request for analysis to insure quality control.
- 2) There shall be no deliveries made unless ordered by the City.

CHEMICAL	WATER TREATMENT	WASTEWATER TREATMENT	TOTAL
<b>CHLORINE:</b>			
<b>CL(2) Dry 65%</b>	500 LB.	500 LB.	1000 LB.
<b>CL(2) 150 LB.</b>	6,000 LB.	0	6,000 LB.
<b>CL(2) 1 TON</b>	40,000 LB.	32,000 LB.	72,000 LB.
<b>ALUM</b>	312,000 LB.	0	312,000 LB.
<b>AMMONIA</b>	12,000 LB.	0	12,000 LB.
<b>FLUORIDE</b>	42,000 LB.	0	42,000 LB.
<b>SULFUR DIOXIDE (1-TON SO2 100%)</b>	0	32,000 LB.	32,000 LB.
<b>CAUSTIC SODA (Diaphragm Grade)</b>	150,000 LB.	0	150,000 LB.
<b>COPPER SULFATE</b>	400 GAL.	0	400 GAL.
<b>LIQUID AMMONIA SULFATE</b>	1,200 GAL.	0	1,200 GAL.

# GENERAL SPECIFICATIONS

## CHEMICALS

### CALCIUM HYPOCHLORITE

Label: Calcium Hypochlorite hydrated  
Identity: Hypochlorite CAS 778-54-3  
Chemical & Physical Properties: Ca.(OCI)  
Available Chlorine: 65%  
Inerts: 35%

### CHLORINE

Label: Chlorine  
Identity: Chlorine CAS 7792-50-5  
Chemical & Physical Properties: cl 99.9%  
Specific Gravity: 1,468  
Vapor Density: 2.67 at 70°F

### ALUMINUM SULFATE

Label: Liquid Alum  
Identity: Aluminum Sulfate Solution  
Chemical & Physical Properties: AL (SO) 48%/( H2O) 52%  
Specific Gravity: 1.29-1.34 at 59°F  
PH: 2  
Lbs/gal: 11.1 lbs./gal  
Visual: Clear

### AMMONIA

Label: Ammonia  
Identity: Anhydrous Ammonia  
Chemical & Physical Properties: 99.5% Ammonia  
Specific Gravity: 0.62 at 60°F  
Vapor Density: 0.60 at 32°F

### FLUORIDE

Label: Fluorosilicic Acid  
Identity: Hydrofluosilicic Acid  
Chemical & Physical Properties: 23% H Sif Fluorosilicic Acid  
Specific Gravity: 1.2  
Vapor Density: 1.23

### SULFUR DIOXIDE

Label: Sulfur Dioxide SO(2)  
Identity: Sulfurous Acid CAS # 007446-09-5  
Chemical & Physical Properties: 100% SO(2)  
Specific Gravity: 1.36 at 77°F  
Vapor Density: 2.26

### **CAUSTIC SODA (LIQUID)**

Label: 50% Caustic Soda (Diaphragm Grade)  
Identity: Sodium Hydroxide; CAS # 001310-73-2  
Chemical & Physical Properties: Sodium Hydroxide  
Specific Gravity: (H<sub>2</sub>O=1) 1.54 @15.6c  
PH: 7.5% Solution has pH 14.0  
Density: 12.8 lb./gal  
Freeze Point: 54°F  
Boil Point: 760 mm Hg:289°F

### **COPPER SULFATE**

Label: Liquid Copper Sulfate  
Identity: Copper II Sulfate Pentahydrate CAS# 7758-99-8  
Appearance and Odor: Blue liquid- No odor  
Purity: 25%  
PH: 2.5  
Solubility in water: Complete  
Specific Gravity: (water = 1): 1:180 - 1:185  
Boil Point: 215°F  
Freeze Point: 29°F  
Viscosity: 2:07 centipoise (CP)

### **LIQUID AMMONIUM SULFATE**

Chemical Family Name: Ammonium Sulfate CAS# 7783-20-2  
Appearance & Odor: Clear, colorless liquid  
PH: 2.0 - 5.0  
Solubility in water: Complete  
Specific Gravity: (water= 1): 1:21-1.23  
Boiling Point: 214.6°F  
Freezing Point: 4°F  
Viscosity: 2.07 centipoise (CP)

## SECTION III BID SHEET

CHEMICAL	CONTAINER	ESTIMATED ANNUAL USE	UNIT BID	TOTAL
<b>Dry CL 65%</b>	100 lb.	1000 lb.	_____ per container	_____
<b>Gas CL 99.9%</b>	150 lb.	6,000 lb.	_____ per container	_____
<b>Gas CL 99.9%</b>	2,000 lb.	72,000 lb.	_____ per container	_____
<b>Alum 7.5-8.5 (Dry Wt.)</b>	Bulk	312,000 lb.	_____ per container	_____
<b>Ammonia 99.5%</b>	Bulk	12,000 lb.	_____ per lb.	_____
<b>Fluoride 23%</b>	Bulk	42,000 lb.	_____ per lb.	_____
<b>Sulfur Dioxide</b>	2,000 lb.	32,000 lb.	_____ per container	_____
<b>Caustic soda 50% (Diaphragm grade)</b>	Bulk	150,000 lb.	_____ per lb.	_____
<b>Copper Sulfate</b>	55 gal	400 gal.	_____ per container	_____
<b>Liquid Ammonia Sulfate</b>	55 gal	1200 gal.	_____ per container	_____

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Phone Number

\_\_\_\_\_  
Address

\_\_\_\_\_  
Email