

**INVITATION FOR BID
FOR
WATER AND WASTEWATER CHEMICALS**

Bid Number: 19-104-WBS

Bids due no later than 10:00 a.m., Thursday, June 13, 2019



MACON WATER AUTHORITY
790 Second Street, 3rd Floor
MACON, GEORGIA 31201

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I. GENERAL

A. Invitation

1. Notice is hereby given that the Macon Water Authority will receive sealed bids until **10:00 a.m.** at the time legally prevailing in Macon, Georgia on Thursday, June 13, 2019 for the purpose of contracting for the Authority's annual requirements for WATER AND WASTEWATER CHEMICALS.
2. NO BIDS WILL BE ACCEPTED AFTER THIS DESIGNATED TIME.
3. Bids will be publicly opened and read in the Authority's Boardroom at that time.

II. BID DOCUMENTS

A. Bid documents are available at:

1. The Georgia Procurement Registry website at http://ssl.doas.state.ga.us/PRSapp/PR_custom_index.jsp?agency=33561
2. The Macon Water Authority website at <http://www.maconwater.org/invitations-to-bid>
3. Macon Water Authority Purchasing Department, 790 Second Street, Macon, GA 31201; or by calling (478) 464-5629 or fax (478) 750-2007.

B. Addenda

1. It shall be incumbent upon each bidder to check for addenda that may have been issued and to comply with its contents.
 - a) Addenda (if issued) will be available as described in section II.A, above.

C. Purchasing Policy

1. The Purchasing Policy is available at the Macon Water Authority website at <http://www.maconwater.org/purchasing-policy>

III. PRICING

1. Prices shall be stated in units of measure specified in the Bid Document and shall be firm for the term of the contract.
2. Prices shall include all applicable taxes.
3. Prices shall include delivery, including packing, crating, containers, pallets, etc. All deliveries shall be FOB Delivered, freight included.

IV. BID SUBMISSION

- A. All bids should be submitted using the bid forms included herein.**

B. Envelopes should be sealed and CLEARLY MARKED on the outside as “WATER AND WASTEWATER CHEMICALS” and delivered to the Macon Water Authority Purchasing Department, 3rd Floor, 790 Second Street, Macon, Georgia 31201.

C. Material Safety Data Sheets (MSDS) shall be submitted with the bid for all products proposed as part of this bid.

V. AWARD

A. Award, if made, will be to that responsible, responsive bidder whose bid, conforming to this solicitation, will be most advantageous to the Authority, price and other factors considered. The Authority reserves the right to accept a bid in whole or in part, and to award by line item or as a whole, whichever is deemed to be in the best interest of the Authority.

B. Under this contract, chemicals shall be ordered and delivered on an “as needed” basis to the water and wastewater treatment plants in Macon, Georgia.

C. Quantities shown are approximate and are not guaranteed.

VI. CONTRACT

A. If awarded, the contract shall be for twelve (12) months, beginning October 1, 2019 and ending September 30, 2020. The Contract may, by mutual consent of the parties, be extended for up to three additional twelve-month (12) periods or any portions thereof, not to exceed a cumulative total of forty eight (48) months.

B. Any request for price increases must be made at least ninety (90) days prior to exercising the option to extend. The Authority will be the sole judge as to whether any price increase will be approved.

C. This contract may be canceled by either party at any time, but not less than ninety (90) calendar days following receipt of a written notice of cancellation by the other party to such contract.

VII. DELIVERY

A. Bids shall include all charges for delivery, including packing, crating, containers, pallets, etc. All deliveries shall be FOB Delivered, freight included.

VIII. CHEMICAL STANDARDS

A. All chemicals for use at the water treatment plant shall be ANSI and NSF Standard 60 certified as a drinking water treatment chemical.

BID FORM

Macon Water Authority
Purchasing Dept.
790 Second Street, 3rd floor
Macon, Georgia 31201

DATE: _____

Re: Water and Wastewater Chemicals
Macon Water Authority
Macon, Bibb County, Georgia

To Whom It May Concern:

1. We have examined the Specifications and related documents, and are familiar with all the conditions surrounding this project, including the availability of materials and labor, and hereby bid to furnish all materials and labor, and to perform in accordance with the Contract Documents, within the time set forth herein, and at the prices stated below. These prices are to cover all expenses incurred in performing the Work required under these Specifications, of which this bid is part.

2. ADDENDUM RECEIPT (if applicable):

We acknowledge receipt of the following addenda:

Addenda No. _____ Dated _____

Addenda No. _____ Dated _____

Addenda No. _____ Dated _____

3. We agree to commence actual physical work on site, with an adequate force and equipment within ten (10) calendar days of a date to be specified in a written order of the Owner.

4. We agree that this bid may not be revoked or withdrawn after the time set for the opening of bids but shall remain open for acceptance for a period of sixty (60) days following such time.

5. In case of written notification by mail, telegraph, or delivery of the acceptance of this bid within sixty (60) days after the time set for the opening of bids, we agree to execute within ten (10) days a Contract for the Work for the above stated compensation.

6. We hereby certify that we have not, nor has any member of the firm(s) or corporation(s), either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this submitted bid.

7. We hereby bid the following prices to cover all work as defined by this specification.

BID PRICES

ITEM NO.	ESTIMATED ANNUAL QTY	NAME	UNIT PRICE	U/M	TOTAL PRICE
1	70 Cyl	Chlorine, liquid, 150lb cylinder		Per Lb.	\$
2	760,000 Lb.	Chlorine, liquid, ton container		Per Lb.	\$
3	15,000 Gal	Sodium Hypochlorite		Per Gal	\$
4	48,000 Gal	Hydrofluosilicic Acid (fluoride)		Per Gal	\$
5	37,000 Gal	Sodium Chlorite, liquid		Per Gal	\$
6	200,000 Lb.	Lime, hydrated, bulk		Per Lb.	\$
7	784,000 Lb.	Sodium Bisulfite		Per Lb.	\$
8	234,000 Gal	Aluminum Sulfate		Per Gal	\$
9	27,000 Gal	Poly-Ortho Phosphate		Per Gal	\$
TOTAL					\$

If awarded, the initial term of this contract shall be for the fiscal year October 1, 2019 through September 30, 2020. However, provided that funds are appropriated, the initial contract may be renewed for up to three (3) additional twelve (12) month terms or any portions thereof, up to a cumulative total of forty eight (48) months. The Authority may consider price increases at each renewal period of the Contract, provided such proposed increases are reasonable and acceptable to the Authority.

Macon Water Authority reserves full freedom (in addition to the right to reject any and all bids) in awarding bids to consider all available factors including, but not limited to, price, the provision of needed and unneeded features, usefulness to the using department and prior MWA experience. Hence the Macon Water Authority may award bids to other than the lowest bidder if in their judgment the interest of the Authority will be best served by award to another.

I certify that my bid meets these specifications and hereby agree that this bid may not be revoked or withdrawn after time set for opening bids, but shall remain open for acceptance for a period for (60) days following such time.

Signature: _____

Printed Name: _____ Title: _____

Email address: _____

Company Name: _____

Company Address: _____

Telephone Number: _____ Fax Number: _____

Tax ID Number: _____ Date: _____

CHLORINE, LIQUID

Estimated Annual Usage -	<u>150 Lb. cylinders</u>	<u>Ton Containers</u>
	30 cyl (Forsyth Road)	260 ton (Amerson Water Treatment Plant)
	30 cyl (Ruben Tanks)	85 ton (Rocky Creek WPCP)
	10 cyl (Sofkee Tank)	35 ton (Poplar Street Wastewater Treatment Plant)
Total Estimated Annual Usage	70 cyl	380 ton

Boiling point, 760 MM HG	-34 degrees C (-29.3 degrees F)
Freezing point	-101 degrees C (-150 degrees F)
Specific Gravity (H2O = 1)	1.4 @ 15.4 degrees C
Vapor Density (air = 1)	2.5
Volatiles by Vol	100%
Liquid, amber color	
Gas, greenish yellow color	
Odor, pungent, irritating	
0.7% Solution has pH 5.5	

SODIUM HYPOCHLORITE

Estimated Annual Usage - 15,000 gal. (Rocky Creek WPCP)

10% NaOCl by weight
Weight per gallon - 10 lbs.
Specific Gravity - 1.142
PH - 11 – 12
Freezing point - 10 degrees
100 gpl available chlorine

HYDROFLUOSILIC ACID (FLOURIDE)

Estimated Annual Usage - 48,000 gal. (Amerson Water Treatment Plant)

Hydrofluosilic acid - 23% minimum
Specific gravity - 1.22 minimum
Ambient temperature - -20 degrees F to 120 degrees F
Quantity ordered, gals - 4,000
Weight per gallon - 10.2 lbs.

SODIUM CHLORITE (Liquid)

Estimated Annual Usage - 37,000 gal. (Amerson Water Treatment Plant)

Active sodium chlorite - 25% minimum

Liquid must not precipitate out during normal handling and storage.

LIME, HYDRATED BULK

Estimated Annual Usage - 100 tons (Amerson Water Treatment Plant)

Ca(OH) ₂	-	94.0 – 97.0% range (95.6% average)
MgO	-	<2.00
SiO ₂	-	<0.55
R ₂ O ₃	-	<1.00%
Bulk density	-	25 – 35 lbs./cu.ft.

Perform analysis by American Society for Testing and Materials (ASTM) Standard C-25.

SODIUM BISULFITE

Estimated Annual Usage - 504,000 lbs. (Rocky Creek WPCP)
280,000 lbs. (Lower Poplar WPCP)

Total estimated annual usage - 784,000 lbs.

Sodium Bisulfite (NaHSO_3): 38% - 42%
pH: 3.5 – 5.0
Specific Gravity: 1.30 – 1.40

ALUMINUM SULFATE LIQUID

Estimated Annual Usage - 234,000 gal. (Amerson Water Treatment Plant)

Shall be NSF 60 approved for use in treating drinking water.

A1203%	-	8.2 – 8.4
Free A1203	-	0.01 – 0.20%
Baume @ 60degrees F	-	35.79 – 37.48
pH	-	1.8 – 2.5
Iron content	-	<2000ppm
H2O Insolubles by weight	-	0.02%
Turbidity	-	<15NTU

Color: light green and clear liquid free of floating debris

Product should be filtered and meet or exceed all drinking water requirements.

Manufacturer shall furnish a Certificate of Analysis with each shipment

Manufacturer shall furnish a certified weight ticket with each shipment

POLY-ORTHOPHOSPHATE

Estimated Annual Usage - 27,000 gal. (Amerson Water Treatment Plant)

This product shall be a poly-orthophosphate and shall sequester iron, manganese, and calcium over a temperature range of 5 degrees to 100 degrees Celsius and have a shelf life of one (1) year minimum.

The best ration required for optimum corrosion control and metal sequestering shall be determined by the manufacturer.

The manufacturer shall certify that the orthophosphate content shall contain only sodium compounds and shall not contain any free phosphoric acids or in-situ neutralized phosphoric acids.

The manufacturer shall certify that a product use dilutions of 1:1 – 1:5 the product shall not show any separation or sedimentation.

The manufacturer shall include test data that certifies the chlorides and sulfates in the product are each less than 10ppm.

The product shall not contain any antimony, barium, cadmium, chloride, chromium, copper, lead, mercury, selenium, sulfate, thallium, or zinc in excess of 10ppm.

The manufacturer confirms and guarantees that the product shall perform without the need of added pH adjustment products over a total pH range of 5.7 to 11.0.

The product shall provide treatment with a maximum orthophosphate (as PO₄) residual of 0.5mg/L in the distribution system.

The manufacturer shall specify the chemical feed rate (mg/L) that the product will be introduced into the water distribution system and the resultant orthophosphate concentrations in the distribution system.

At manufacturers suggested chemical feed rate and on the basis of corrosion loop testing, a corrosion rate of not more than 10 mils per year for the water distribution system is required. A minimum of two sites will be used and identified by us for corrosion loop testing. The manufacturer and the Authority shall monitor the rate of corrosion at intervals not more than three months apart.