

**CITY OF MATTOON
WATER TREATMENT PLANT**

WATER TREATMENT CHEMICALS

BID SPECIFICATIONS

March 2012

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**CITY OF MATTOON - WATER TREATMENT PLANT
NOTICE TO BIDDERS
WATER TREATMENT CHEMICALS**

The City of Mattoon is accepting bids for the purchase of Water Treatment Chemicals. The bids will be used to establish prices for the period from May 1, 2012 thru October 31st, 2012. Bid documents are available from the City Clerk's Office at Mattoon City Hall, 208 N. 19th Street, Mattoon, Illinois, 61938. Bids are due at 11:00 A.M. on Monday, April 9th, 2012.

CITY OF MATTOON

/s/Susan O'Brien
City Clerk

BID PROCEDURES & GENERAL REQUIREMENTS

BID PROCEDURE

Bids are to be submitted in sealed envelopes marked as follows:
“WTP Chemical Bids – April 9th Bid Opening”.

Bids are to be submitted on the attached bid form to:
City of Mattoon
City Clerk’s Office
208 North 19th Street
Mattoon, IL 61938

BID AWARD

The purpose of this bid is to establish prices for each chemical for the 6 month period from May 01, 2012 to October 31, 2012. As chemicals are required, the City of Mattoon will first attempt to purchase said chemical from the lowest bidder for that item. The City reserves the right to purchase from the subsequent low bidders for each item if the lowest bidder is unable to make delivery of the chemicals in a timely manner.

The City of Mattoon reserves the right to reject any or all bids, to waive any informalities in the bid procedure, and to accept the bid considered to be in the best interest of the City.

BID BOND, CONTRACT, AND PERFORMANCE BOND,

Bid Bonds, Contracts, and Performance Bonds are not required.

DELIVERY

All chemicals shall be delivered to: Mattoon Water Treatment Plant
2941 Lake Road
Mattoon, IL 61938

Delivery costs shall be included in the bid price. Deliveries shall be made within 72 hours of notification.

BID PROCEDURES & GENERAL REQUIREMENTS (CONT.)

FUEL PRICE ADJUSTMENTS

Successful bidders may request fuel price adjustments during the course of the year if substantial changes in fuel prices occur. The bidder shall document the fuel price at the time of the bid and the fuel price at the time of the request. Adjustments shall apply to fuel costs for delivery only.

PRODUCT DATA

The bidder shall supply Material Safety and Data Sheets with each delivery. Bidders shall supply product specifications with their bid. Bidders shall supply an Affidavit of Compliance for the specified AWWA Standards with their bid.

VERIFICATION TESTING

The City of Mattoon will perform routine sampling and testing of chemical deliveries to verify conformance with the specifications. Verification testing will be performed at the City's cost. The City reserves the right to use the next low bidder at any point in which verification testing shows chemicals have been delivered that do not comply with these specifications. The chemical supplier shall remove, at their expense, any chemical that does not meet the specifications.

PAYMENT

Payment will be made for each delivery after the receipt of a detailed invoice from the vendor. Delivery tickets and invoices shall specify the chemical, the concentration, the weight or other delivery quantity, the unit price, and the total price.

TAXES

The materials included in this bid are exempt from Illinois State Sales Tax.

QUESTIONS

Bidders may contact David Basham at 217-234-2454 or waterplant@mattoonillinois.org with questions about the bid.

CHEMICAL SPECIFICATIONS

ALUM

Alum, $Al_2(SO_4)_3$, shall be furnished as a liquid aluminum sulfate solution. The liquid alum shall conform to the current version of AWWA Standard B403.

The nominal concentration of the solution shall be 48.5% Alum by weight.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per dry pound, shall be based on the weight of alum in the liquid alum solution (as opposed to the weight of solution delivered).

Delivery Method:	Bulk
Unloading Method:	The fill pipe connection is located near ground level. The supplier shall pump the material to the storage tank located 12' above ground level.
Storage Capacity:	5,000 gallons
Typical Delivery:	4,400 gallons
Delivery Frequency:	Monthly
Annual Usage:	207,000 # dry weight

CHEMICAL SPECIFICATIONS

AMMONIUM SULFATE

Ammonium Sulfate shall be furnished as a dry granular material. The ammonium sulfate shall conform to the current version of AWWA Standard B302.

The material shall be 99%+ Ammonium Sulfate.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per pound, shall be based on the net weight of material delivered (as opposed to the weight of active ingredients).

Delivery Method:	50# Bags on Pallets
Unloading Method:	Loading dock
Storage Capacity:	3-5 pallets
Typical Delivery:	3 pallets
Delivery Frequency:	As needed
Annual Usage:	60,000#

CHEMICAL SPECIFICATIONS

CARBON DIOXIDE (CO2)

Carbon Dioxide shall be furnished as a purified gas that has been compressed and refrigerated into liquid form. The liquid CO2 shall conform to the current version of AWWA Standard B510.

The nominal concentration shall be 100%.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per pound, shall be based on the net weight of chemical delivered (as opposed to the weight of active ingredients).

Delivery Method:	Bulk
Unloading Method:	Transferred under pressure by supplier.
Storage Capacity:	14 Ton
Typical Delivery:	9 Ton
Delivery Frequency:	Monthly
Annual Usage:	200,000 Pounds

CHEMICAL SPECIFICATIONS

CATIONIC POLYMER

Cationic Polymer shall be a PolyDiAllylDiMethylAmmoniumChloride, PolyDADMAC, polymer in aqueous solution. The Cationic Polymer shall conform to the current version of AWWA Standard B451.

The Cationic Polymer shall contain 20% solids and shall be "high" molecular weight. The supplier shall specify the solids content and viscosity being bid. The supplier shall furnish consistent solids content and viscosity for the duration of the contract. The Cationic Polymer shall be equivalent to SNF Polydyne Clarifloc® C-378.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects. Bidders shall specify the maximum allowable dosage rate to meet this requirement.

The bid price, per pound, shall be based on the net weight of material delivered (as opposed to the weight of active ingredients).

Delivery Method:	Totes
Unloading Method:	Totes
Storage Capacity:	3 Totes
Typical Delivery:	3 Totes
Delivery Frequency:	Varies depending on water quality.
Annual Usage:	35,000 Pounds

The City of Mattoon will request samples from each economically feasible bidder. The samples will be used in laboratory jar testing to determine the most cost effective bid. Laboratory testing will be performed at the City's cost.

CHEMICAL SPECIFICATIONS

CHLORINE (LIQUID CHLORINE)

Chlorine shall be furnished as a purified gas that has been compressed and refrigerated into liquid form. The liquid chlorine shall conform to the current version of AWWA Standard B301.

The material shall be furnished in 1 ton cylinders. The nominal concentration shall be 100%.

The bid price, per pound, shall be based on the net weight of material delivered (as opposed to the weight of active ingredients).

Delivery Method:	1 Ton Cylinders
Unloading Method:	Overhead hoist. Plant personnel provide assistance.
Storage Capacity:	4 Ton
Typical Delivery:	2 Ton
Delivery Frequency:	Monthly
Annual Usage:	30,000 Pounds

CHEMICAL SPECIFICATIONS

FLUORIDE

Fluoride, shall be furnished as a liquid Fluorosilic Acid solution. The fluoride shall conform to the current version of AWWA Standard B703.

The solution shall contain 23-25% Fluorosilic Acid by weight. The supplier shall furnish a consistent concentration for the duration of the contract.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per pound, shall be based on the net weight of solution delivered (as opposed to the weight of active ingredients).

Delivery Method:	Bulk
Unloading Method:	The fluoride is pumped by the supplier into an existing 350 gallon tote.
Storage Capacity:	3500 Pounds/350 gallons
Typical Delivery:	3000#
Delivery Frequency:	Every 1-2 months
Annual Usage:	30,000#

The bidder shall provide pumps and hoses to fill tote.

CHEMICAL SPECIFICATIONS

LIME

Lime, CaO, shall be quicklime furnished in pebble form. The nominal pebble size shall be 1/2". Lime shall conform to the current version of AWWA Standard B202.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per ton, shall be based on the net weight of material delivered (as opposed to the weight of active ingredients).

Delivery Method:	Bulk
Unloading Method:	The fill pipe connection is located near ground level. The supplier shall pump the material to the storage silo located 40' above ground level.
Storage Capacity:	95,000#
Typical Delivery:	Truck load
Delivery Frequency:	Bi-Weekly
Annual Usage:	1,300,000 #

CHEMICAL SPECIFICATIONS

PERMANGANATE (NaMnO₄)

Permanganate (NaMnO₄), shall be furnished as a liquid sodium permanganate solution comparable to Carus Carusol. The material shall conform to the current version of AWWA Standard B603.

The nominal concentration of the solution shall be 20% NaMnO₄ by weight.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per pound, shall be based on the net weight of material delivered (as opposed to the weight of active ingredients).

Delivery Method:	Bulk or Totes
Unloading Method:	The fill pipe connection is located near ground level. The supplier shall pump the material to the storage tank located 15' above ground level.
Storage Capacity:	550 gallons
Typical Delivery:	5,100 pounds
Delivery Frequency:	Monthly
Annual Usage:	3640 # dry weight

CHEMICAL SPECIFICATIONS

PHOSPHATE (BLEND)

Phosphate shall be a liquid blend of polyphosphate and orthophosphate similar to Carus Aqua Mag. The nominal density shall be 11.5#/gallon. The nominal concentration of total phosphates shall be 35%. The blend shall be approximately 2-1/2 to 3 parts polyphosphate to 1 part orthophosphate.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per pound, shall be based on the net weight of solution delivered (as opposed to the weight of active ingredients).

Delivery Method:	Bulk
Unloading Method:	Pumped into 500 gallon tank.
Storage Capacity:	500 gallon
Typical Delivery:	400 gallons
Delivery Frequency:	As needed
Annual Usage:	21,000 pounds

The WTP has a 500 gal mini bulk tank that the supplier will fill. The supplier will have his own pump system and hoses.

CHEMICAL SPECIFICATIONS

POWDERED ACTIVATED CARBON (PAC)

Powdered Activated Carbon, PAC, shall be supplied in bulk, dry form. The Powdered Activated Carbon shall conform to the current version of AWWA Standard B600.

The minimum Iodine Number shall be 500 mg/g. The maximum Tannin Value shall be 250 mg/L.

This material shall be certified as suitable for contact with, or treatment of, drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

The bid price, per pound, shall be based on the net weight of material delivered (as opposed to the weight of active ingredients). The material shall be delivered in 20,000 to 30,000 pound loads.

Delivery Method:	Bulk
Unloading Method:	The PAC storage tank is above ground level.
Storage Capacity:	35,000 pounds
Typical Delivery:	20,000 pounds
Delivery Frequency:	1 to 2 times per year
Annual Usage:	5,000-40,000 pounds

The bid award will be based on the best combination of cost and Tannin Values. The City of Mattoon may require to bidders to provide verification testing of their published Tannin Values. The City reserves the right to conduct independent MIB/Geosmine removal effectiveness testing and/or Tannin Value testing at the the City's cost for bid evaluation.

BID FORM

I/We agree to provide the items described in the Bid Specifications titled "City of Mattoon, Water Treatment Chemicals, March 2012" at the following price(s):

ITEM	UNIT	BID PRICE
Alum	Dry Pound	_____
Ammonium Sulfate	Pound	_____
Carbon Dioxide (CO2)	Pound	_____
Cationic Polymer	Pound	_____
Chlorine (Liquid Chlorine)	Pound	_____
Fluoride	Pound	_____
Lime	Ton	_____
Permanganate (NaMnO4)	Pound	_____
Phosphate (Blend)	Pound	_____
Powdered Activated Carbon	Pound	_____

Bids will be awarded separately for each item.
Bidders are not required to submit a price for every item.
Include Product Specifications and a Compliance Affidavit for each chemical.

Company Name & Address

Phone: _____

Fax: _____

E-mail: _____

Signature _____

Print Name: _____