

CITY OF CROSSVILLE
REQUEST FOR QUOTATION

IMPORTANT: Read Instructions Carefully

THIS IS NOT AN ORDER
RETURN QUOTATION TO:

City Clerk
City of Crossville
392 North Main Street
Crossville, TN 38555

	Date issued	Delivery required
CRO # 1378	04/11/16	as needed
For more information call		To be opened date/hour
Jerry Kerley 931-788-5515		05/17/16 2:00 p.m.

Prices to be F.O.B.
City of Crossville, Water Treatment Plants

NOTICE TO BIDDER

THIS IS NOT AN ORDER. Please enter unit prices, extensions, and amount for the items listed herein specified. Be sure the specifications are followed. If you are unable to supply any of the items, please quote on the nearest substitute either on this form, or attach a letter containing such description and it will be considered as part of your quotation. Prices quoted must include all delivery charges to points of delivery indicated hereon. **We reserve the right to accept or reject** any or all bids.

Bidder's Name

Bidder's Address

Please submit a bid for chemicals per the attached list and bid specifications.

This bid will be for the fiscal year July 1, 2016 until June 30, 2017.

Please include data sheet for SDS or website information.

Any fuel surcharges must be submitted in advance for approval by City Council, which may result in a re-bidding of the Price Contract.

PLEASE SEE REVERSE SIDE FOR INSTRUCTIONS

IMPORTANT INSTRUCTIONS TO BIDDERS

1. Each quotation should be in a **SEPARATE ENVELOPE** and have typed on the envelope the **QUOTATION NUMBER, OPENING DATE AND TIME**.
2. Specifications used in this request for quotation are intended to be open and non-restrictive. Reference to brand names, catalogs, etc., is to establish minimum standards of quality and does not preclude BUYER'S consideration of bids on comparable quality. All bidders state brand name and catalog number of product bid.
3. All prices quoted should be on a delivered prepaid basis F.O.B. destination shown in the shipping instructions in this request for quotation.
4. Insert time discount terms, if any, in space provided. Discounts is computed from date of delivery at destination or date of receipt of properly executed vendor's invoice at agency indicated above, whichever is later.
5. **TENNESSEE SALES AND/OR USE TAX:** ALL QUOTATIONS MUST BE ON A NET UNIT PRICE BASIS. DO NOT ADD OR INCLUDE TAX, THE AGENCY WILL ADD TAX WHERE APPLICABLE ON THE ORDER.
6. Quotations should be submitted on this form indicating unit price, total extension of each item, and grand total of quotation. In case of error in the extension prices, the unit price will govern.

TIME DISCOUNT ALL ITEMS _____
DELIVERY: We submit the prices and agree to make
delivery within _____ days after the receipt of order.
This offer is for _____ calendar days from the date this
bid is opened.

NOTICE: BID WIL BE REJECTED
UNLESS SIGNED IN INK.

SIGNED BY: _____
Print name _____
FIRM: _____
ADDRESS: _____
City _____ State _____ Zip _____
Date: _____ Telephone _____

In submitting this bid, it is expressly agreed that upon proper acceptance by the City of Crossville of any or all items bid, a contract shall thereby be created with respect to the items accepted.

**BID SPECIFICATIONS FOR WATER TREATMENT CHEMICALS
2016-2017**

ITEM	EST. QUANTITY AND AMOUNT	UNIT	PRICE
1. Caustic	4,000 Gallons	Gallon	_____
2. Liquid Zinc-Orthophosphate, 1:3 by weight, Zinc:Orthophosphate ratio. NSF Standard 60 Certified	Volume sufficient to yield 0.3 ppm Zinc and 0.9ppm Orthophosphate in 4 MGD Flow. Vendor to include product dose required to achieve these yields and is to be included in bid response	Gallon	_____
3. Fluorosilicic Acid	3500 Gallons	Gallon	_____
4. Sodium Bicarbonate -USP Powdered No. 1 -Meets Food Chemical Codex -NSF approved	50,000 Pounds	Per Pound	_____
5. * Salt (Granular-Bulk)	Truck Load	Per Pound	_____
6. ** Polymer (Equal to or better than Thermodyne Thermofloc)		Gallon	_____
7. Sodium Permanganate	4000 Gallons	Gallon	_____
8. Sodium Thiosulfate 30% or	24 Barrels/1,320 gallons	Gallon	_____
9. Norit Hydrodarco B		Per Pound	_____
10. Norit Pac 20-B		Per Pound	_____

SALT & POLYMER SPECIFICATIONS
FOR
MIOX MIXED-OXIDANT GENERATORS

General Information

Purity

Granular table grade salt with a purity level of 99.5% NaCl or greater. The primary contaminant limits are less than .01 percent calcium, .01 percent magnesium, and .0005 percent manganese. Must be NSF Standard 60 Salt.

NSF Standard 60 Salt

Several state regulatory agencies are now requiring that the source material feeding on-site generators (i.e. salt) must be NSF60 listed to ensure that no hazardous materials ultimately enter the drinking water supply. NSF60 relates to chemicals in contact with drinking water are safe and non-toxic to the drinking water supply. For a list of salt suppliers that offer NSF60 listed salt, refer to the NSF website at www.nsf.org.

COAGULANT SPECIFICATIONS

Coagulant shall have a minimum shelf life of one year and have flocculation and turbidity removal performance equal to or better than the current product as determined by the City of Crossville.

COAGULANT SUPPLIER SERVICE SPECIFICATIONS

The City of Crossville seeks the best overall value in products and services available from its coagulant supplier. The service specifications below are based on the arrangements that are currently in place.

- 1) Coagulant supplier shall provide a water treatment professional for on-site technical service. The minimum educational and experience requirements of the water treatment professional shall be a B.S. in Chemical Engineering from an accredited university. The water treatment professional shall be available on a regular basis as the water system's chemical and treatment consultant.
- 2) Suppliers' Chemical Engineer shall be present at all tank wagon deliveries to do on-site quality control jar tests on samples taken from the tankers at the unloading points.
- 3) Suppliers' Chemical Engineer shall be approved by the State of Tennessee Water and Wastewater Certification Board to provide continuing education training.

- 4) Suppliers' Chemical Engineer shall have working knowledge of the technical details related to:
- Alternative oxidants and disinfectants
 - Disinfection byproduct control strategies
 - Water plant testing and analyses
 - Powered and granular activated carbon treatment
 - Corrosion control
 - Potassium permanganate treatment
 - Plankton enumeration
 - Fluid dynamics
 - CT and pathogen removal calculations
 - Proposed stage 2 DBPR and LT2ESWTR
 - Empirically-based models for predicting chlorination byproduct concentrations described in EPA 815-R-98/005
 - Tracer study and empirical baffle factor determination procedures described in USEPA 815-12-R-99-013
- 5) Specific technical services to be provided by coagulant supplier included but not limited to the following:
- A) On-site research to assist with disinfection byproduct control; specifically by planning and executing controlled test protocols to generate quantitative data on the DBP yields of various treatment approaches.
 - B) On-site research to quantify the potential water quality improvements of envisioned capital improvement projects.
 - C) Assist in running plant trials with alternative oxidants including developing or adapting procedures for monitoring residuals, determining oxidant demands and appropriate feed rates, monitoring plant water quality, and executing jar tests to correct upset conditions during trials.
 - D) Regular jar testing at both water plants to optimize coagulant doses.
 - E) Assist in obtaining plankton enumerations.
 - F) Provide assistance in maintaining superior water quality by helping in the troubleshooting of iron, manganese, turbidity, and algae breakthrough issues.
 - G) Provide technical assistance with chemical feed rate and dilution calculations for any and all chemicals used including providing pump setting equations as functions of contaminant levels and flow rates.
 - H) On-site research to study powdered activated carbon for DBP control including developing and executing controlled test protocols quantifying the TTHM and HAA5 reductions possible with various carbon types, feedpoint, and doses.
 - I) Plan and execute tracer studies to develop empirically-determined baffle factors to use in CT calculations. Tracer studies shall be of the positive step function type using sodium ion assay with ion selective electrode.

- J) On-site research to quantify the DBP precursor removal capabilities of potassium permanganate and potassium permanganate enhanced with catalysts and alkalinity sources.
 - K) On-site research to quantify the effect on water quality of pretreatment with various alkalinity sources including sodium hydroxide, calcium hydroxide, sodium carbonate, and sodium bicarbonate.
 - L) Assist in implementing alternate oxidant approaches for DBP control including recommending procedures for feed rate control, treatment monitoring, and test procedures.
 - M) Convert plant fluid mechanics into jar test conditions.
 - N) Provide equations and expertise to help set up spreadsheet calculations for determining pathogen inactivation ratios including adapting specialized Regression Methods.
 - O) Deposit composition analyses and determinations by proton-induced x-ray emission.
- 6) For items A-O above, Suppliers' Chemical Engineer shall provide full written reports on all studies and recommendations.
 - 7) For items A-O above, Suppliers' Chemical Engineer shall assist operating personnel in translating the technical findings into practical standard operating procedures.
 - 8) Bidders shall supply information for the Chemical Engineer to be provided. The City of Crossville reserves the right to interview a proposed Chemical Engineer to make a determination about their qualifications to provide the services listed above.

Because of the continuity required for the technical service component of the City's coagulant supplier specifications, the City of Crossville reserves the right to renew this contract without bidding for up to two additional years.

Purchasing

Chapter No. 613 (SB 2767/HB 2619). Bid specifications for chemical products to require MSDS website information. Amends T.C.A. 6-56-307, part of the Municipal Purchasing Act of 1983, to require bid specifications for chemical products to require the manufacturer to create and maintain a material safety data sheet for the products on the national MSDS SEARCH repository or the manufacturer's website. A site operated by or on behalf of the manufacturer or a relevant trade association is acceptable if the information is freely accessible by the public. A link to the MSDS Search website will be included in the website of the Department of General Services. Instead of posting an MSDS on MSDS SEARCH, a bidder may include the manufacturer's website for the MSDS in the bid or purchase order.

Effective date: May 5, 2004

PUBLIC NOTICE

TITLE VI OF THE 1964 CIVIL RIGHTS ACT

“No person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance.”

The City of Crossville provides benefits and services such as police protection, fire protection, water service, sewer service, sanitation service, infrastructure needs, and other related municipal services. The City also provides funds to certain non-profit organizations.

Anyone who believes that an agency or local government receiving the federal funding mentioned above has discriminated against someone on the basis of race, color or national origin has a right to file a complaint within 180 days of the alleged discrimination.

Sally Oglesby, City Clerk
Title VI Coordinator

Please sign and return to the City of Crossville verifying that your company is in compliance with the above Title VI, 1964 Civil Rights Act.

Authorized Signature

Company

Print Name

Please return to: City of Crossville
392 N. Main Street
Crossville, TN 38555