

May 18, 2015

NOTICE TO BIDDERS:

The City of Cookeville Department of Water Quality Control will receive sealed bids until 10:00 A.M., Tuesday, June 09, 2015 at the Water Department Warehouse -1860 S Jefferson, Cookeville, TN, for Chemicals to be used by the Water and Sewer Treatment Plants.

Item #1 LIQUID FERRIC CHLORIDE 30% - 40% - (90 Loads Anticipated) - Bulk truckload, with blow off or pump off capacity. Must meet ANSI/AWWA B407-98 and be ANSI/NSF Standard 60 Certified for use in potable water treatment. State price per dry ton delivered.

Bid price for one year: _____

Item #2 SODIUM HYDROXIDE – (48 Loads Anticipated) - Approximately 4,000 gallons per load 50% Solution, with blow off or pump off capacity. Must meet AWWA B501-98 and ANSI/NSF Standard 60 Certified for use in potable water treatment - State price per dry ton delivered.

Bid price for one year: _____

Item #3 HYDROFLUOSILICIC ACID - (3 Loads Anticipated) - Approximately 4,000 gallons per load 23% Solution, with blow off or pump off capacity. For use in potable water treatment. Must meet AWWA B703-00 and ANSI/NSF Standard 60 Certified. State price for both 100% dry ton H₂SIF₆ adjusted basis and 23% H₂SIF₆ acidity adjusted basis. (Both dry ton and acidity adjusted basis must be bid as requested)

Bid price for one year: _____

Item #4 CHLORINE - One Ton Cylinders - (100 Tons Anticipated) State price per ton delivered. Must be delivered on open flat bed truck.

Bid price for one year: _____

Item #5 HYDROGEN PEROXIDE 50% (180 Drums Anticipated) - Must be NSF Standard 60 Certified. To be delivered in bulk at 1,800 gallon/load and barrels as needed. Truck must have lift gate when delivering barrels. The product will be delivered to our raw water intake at the Cookeville Water Treatment Plant. This will require a straight truck or short trailer. State price per dry pound and per gallon delivered.

Bid price for one year: _____

Item #6 **Powdered Activated Carbon-PAC**- to be delivered in a pneumatic tanker trailer-(9 loads/year anticipated). Delivery of approximately 20,000 lbs. is to our Water Treatment Plant in Baxter, TN. 38544. Truck must supply own air to unload. To be delivered and blown into a silo. All products must be of domestic origin (U.S.A.) give lead time in days for orders to be delivered to our facility to occur.

Requirements are as follows:

- A. The PAC is preferred to be a wood base material that is chemically activated using phosphoric acid and/or by steam. A mixture of wood and coal base material that is activated with the phosphoric acid process and/or steam activation process will be considered.
- B. The PAC is to be a fine powder having:
 - 1. A minimum 99% shall pass through a U.S. Standard Sieve #100.
 - 2. A minimum 95% shall pass through a U.S. Standard Sieve #200.
 - 3. A minimum 90% shall pass through a U.S. Standard Sieve #325.
- C. PAC must meet ANSI/AWWA-B600-90 or newer standards.
- D. PAC must meet NSF/ANSI Standard 61 Drinking Water System Components –Health Effects. The bidder shall supply a certification letter with the bid.
- E. Iodine #800 mg/g minimum. The number shall be determined in accordance with ASTM Method D4607.
- F. Bulk density of the PAC shall not be less than 0.2 g/cc (12.5 lb. /cu. ft.) nor greater than 0.5 g/cc (31.2 lb. /cu. ft.).
- G. Moisture 8% maximum.
- H. PAC shall have an ash content of less than 10%. Include on bid the typical ash content of the product submitted. The ash content will be used to evaluate the pricing of the different products bid.
- I. Affidavits of compliance shall be furnished with the bid submitted.

THE FOLLOWING ITEMS **MUST BE** INCLUDED WITH BID SUBMITTED.

- 1. BASE MATERIAL AND THE ACTIVATION PROCESS _____
AND THE SPECIFIC ASH CONTENT OF THE PRODUCT SUBMITTED _____
- 2. IODINE NUMBER _____
- 3. BULK DENSITY RANGE _____

4. PARTICLE SIZE THROUGH SIEVES _____
5. CERTIFICATION LETTER WITH THE BID – YES _____ NO _____
6. AFFIDAVITS OF COMPLIANCE SHALL BE FURNISHED WITH THE BID SUBMITTED.
YES _____ NO _____
7. GIVE LEAD TIME IN DAYS FOR ORDERS TO BE DELIVRED TO OUR FACILITY.

8. BID _____

BID SUBMITTED BY: _____

Item #7 The following three chemicals to be used in the process of a Pall Membrane Filtration System to be used at the Water Treatment Plant. Chemicals are to be delivered in barrels. Bid should state the price of each product. All chemicals for the Pall Membrane Filtration System will be awarded to one vender for orders to be combined together at the time of shipment. (A typical order would be at least 15 barrels total.) **Delivery must be made with truck provided with lift gate and truck must be a straight truck or short trailer.**

1. **25% Caustic** – 10 Barrels/Year – Estimate – State Price Per Pound
Bid price for one year: _____
2. **12.50% Sodium Hypochlorite** – 25 Barrels/Year – Estimate – State Price Per Gallon
Bid price for one year: _____
3. **50% Citric Acid** – 50 Barrels/Year – Estimate – State Price Per Pound
Bid price for one year: _____

Item #8 ORTHO-POLYPHOSPHAE BLEND – will have four components each of which is dedicated to the following –

1. Corrosion Control
2. Cleaning
3. Sequestration and
4. Retardation of the Oxidation Potential of lead and copper.

The product shall have a minimum product content of 3.9 dry pounds per gallon of solution. The estimated annual volume is 5600 gallons.

1. Product submitted must meet or exceed specification of Clarus L.
2. All bid products must be based on 65% polyphosphate, 25% orthophosphate, and 10% Chelation aid.
3. All bid products shall be required to have a minimum concentration of 35%.

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4. Must be delivered in 330 gallon totes or an acceptable container or volume agreed upon by Cookeville Water Department. Truck must possess the ability to pump the product to our holding tank – we do not remove totes.
5. Technical support must be available upon request.
6. On-site technical assistance must be available within 48 hours.
7. Product must be manufactured in the United States.

The bid package for this item shall include MSDS, PDS, and a minimum of 4 Oz. sample of the liquid product. The product will be evaluated for technical acceptability by the CHEMICAL BID Cookeville Water Treatment Plant Quality Control personnel and the cost effectiveness will be evaluated by the WTP and Utility Management.

Pricing shall be express in US Dollars per gallon of product delivered.

\$/per gallon _____

Cost shall be expressed in US Dollars per Mgallons finished water based upon Cookeville at what ppm feed rate. Water chemistry of 64 ppm Total Hardness, 0.03 ppm Manganese, and 0.04 ppm iron. \$ @ ppm per mgallons _____

The liquid product will be packaged and delivered in 330 gallon totes and the material transfer equipment must be compatible with Cookeville WTP equipment. Upon receipt, the product will be tested for chemical and physical properties by the Cookeville Water Quality Control personnel prior to shipment acceptance. Waiver of testing is at the discretion of the Water Quality Control personnel.

Each phosphate component in the product shall be NSF certified, Title 60, of US Origin, and the blended product shall also be NSF certified, Title 60. The liquid product components shall not contain zinc.

Item #9

HIGH CALCIUM QUICKLIME - (12 Loads Anticipated) must conform to ANSI/NSF Standard 60 and ASTM and AWWA B202 Standards. The product shall be similar to Tenn. Luttrell Company's CaO+ Plus Quicklime, and meets the following properties.

Available CaO	Min. 92% Avg. 93% or Higher
MgO	0.75 – 2.5%
Loss On Ignition	0.75 – 2.3%
Reactivity, 3 minute rise	40°C
Residue (-30 Mesh)	<2%
Nominal Size	99% passing 10 Mesh 40% passing 100 Mesh

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Testing for the above chemical and physical properties shall be in accordance with ASTM C25 and C110, respectively. Each load shall be 20-25 tons. State price per ton, number of days for delivery after receiving order, and typical analysis for product bid.

Residue % _____
Number of Days for delivery after receiving order _____

Bid price/ton for one year: _____

Bid will be evaluated based on the following formula:

Bid price/ton ÷ (1 - % Residue/100) = Price to Evaluate

\$ _____ ÷ _____ = \$ _____

Item #10

HIGH CALCIUM QUICKLIME - (12 Loads Anticipated) must conform to ANSI/NSF Standard 60 and ASTM and AWWA B202 Standards. The product shall be similar to Tenn. Luttrell Company's CaO+ Plus Quicklime, and meets the following properties.

Available CaO	Min. 92% Avg. 93% or Higher
MgO	0.75 – 2.5%
Loss On Ignition	0.75 – 2.3%
Reactivity, 3 minute rise	40°C
Residue (-30 Mesh)	<2%
Nominal Size (Rice)	¼" – ½"

Testing for the above chemical and physical properties shall be in accordance with ASTM C25 and C110, respectively. Each load shall be 20-25 tons. State price per ton, number of days for delivery after receiving order, and typical analysis for product bid.

Residue % _____
Number of Days for delivery after receiving order _____

Bid price/ton for one year: _____

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Items 1-8 to be FOB delivered to the Water Treatment Plant - 9722 Water Plant Road-Baxter, TN - 15 miles Southwest of Cookeville. Items 9 and 10 to be FOB delivered to the Wastewater Treatment Plant - 1870 S Jefferson, Cookeville, TN. **(Freight must be included with bid price)** All deliveries shall be made before 2:00 P.M. Monday through Friday.

State prices firm for one (1) year and date of delivery after receipt of order.

BID EACH ITEM AS REQUESTED.

MARK ALL ENVELOPES "BID NOTICE" CHEMICALS - ATTENTION RONNIE J. KELLY

The City will go to the second bidder if the first recommended bidder cannot deliver product within five (5) working days or if delivery of product does not meet our specifications.

The City of Cookeville reserves the right to reject any or all bids and hereby declares that all bids not meeting or exceeding specifications will be rejected as deemed in the best interest of the City.

Ronnie J. Kelly
Director

RJK:mj

