



CITY OF WOONSOCKET, RHODE ISLAND

INVITATION TO BID FOR:

"TREATMENT CHEMICALS" – BID# 5751

For the Woonsocket Water Department

Specifications are available at the Finance Department, **Office of Purchasing**, City of Woonsocket, 169 Main Street, Woonsocket, Rhode Island 02895 between the hours of 8:30 AM and 4:00 PM, Monday through Friday.

Sealed bids will be received by the City of Woonsocket, in the Finance Department, **Office of Purchasing**, City Hall, 169 Main Street, Woonsocket, Rhode Island until 2:00 P.M. Monday, August 29, 2016, and then publicly opened and read aloud by the Finance Director in the **Office of Purchasing**, City Hall, 169 Main Street, Woonsocket, Rhode Island at 2:00 P.M.

ALL BIDS MUST BE SUBMITTED IN DUPLICATE COPY IN A SEALED ENVELOPE PLAINLY MARKED ON THE OUTSIDE OF THE ENVELOPE "TREATMENT CHEMICALS".

BID SURETY IN THE FORM OF A CERTIFIED CHECK OR BID BOND IN THE AMOUNT OF 5% OF SUCH BID IS REQUIRED.

Individuals requesting interpreter services for the hearing impaired should call the Finance Director at 401-762-6400 seventy-two (72) hours in advance of the bid opening.

The City of Woonsocket reserves the right to reject any and all responses, or parts thereof, to waive any irregularity in the responses received and to accept the responses or parts thereof deemed to be most favorable to **THE BEST INTEREST OF THE CITY.**

Published: August 17, 2016


Christine Chamberland
Finance Director

**INFORMATION TO BIDDERS
CITY OF WOONSOCKET
FINANCE DEPARTMENT
(401) 767-9269**

1. RECEIPT AND OPENING OF PROPOSALS:

Sealed bids/proposals will be accepted and time stamped upon receipt in the Finance Department, City of Woonsocket, P.O. Box B, Woonsocket, Rhode Island, 02895; until the time, indicated on the attached Advertisement for Bids, for the commodities, equipment or services listed in the specifications. Bid/Proposals will be publicly read at the time specified in the advertisement.

2. FORM OF BID:

~~Proposals shall be submitted in duplicate.~~ Supplemental information, drawings, warranties, literature and material to be provided with the bid shall be on the bidder's own form. Where a specified brand or model number is asked for, it is to be viewed as a benchmark or standard, a substitute may be deemed equivalent at the discretion of the Finance Director. The City of Woonsocket reserves the right to award a contract by item or in total.

3. SUBMISSION OF BIDS:

- Envelopes containing bids must be sealed and addressed to the Finance Department, Office of Purchasing, City of Woonsocket, P.O. Box B, Woonsocket, Rhode Island 02895, and must be marked with the name and address of the bidder with the name of the bid in the lower left hand corner.
- *If you are submitting a bid using a carrier such as FED EX, UPS, etc., the name of the bid and bid# must be marked on the envelope or label.*
- The Finance Director will decide when the specified time has arrived to open bids and no bid thereafter will be considered.
- Any bidder may withdraw his bid by written request at any time prior to the advertised time for opening. Telephone bids, faxed bids, amendments or withdrawals will not be accepted.
- Unless otherwise specified, no bid may be withdrawn for a period of sixty (60) days from the time of bid opening.
- Negligence on the part of the bidder in preparing the bid confers no rights for the withdrawal of the bid after it has been opened.
- Proposals received prior to the time of opening will be securely kept, unopened. No responsibility will be attached to an officer or person for the premature opening of a proposal not properly addressed and identified.

- Any deviation from the Specifications **MUST BE NOTED IN WRITING AND ATTACHED AS PART OF THE BID PROPOSAL.** The bidder shall indicate how the bid will deviate from Specifications.

4. **RHODE ISLAND SALES TAX:**

The City is exempt from the payment of the Rhode Island Sales Tax under the 1956 General Laws of the State of Rhode Island, 44-18-30, Paragraph 1, as amended.

5. **FEDERAL EXCISE TAXES:**

The City is exempt from the payment of any excise tax or federal transportation taxes. The price bid must be exclusive of taxes and will be so constructed.

6. **QUALIFICATION OF BIDDERS:**

The City may make such investigations, as it deems necessary to determine the ability of the bidder to perform the work. The bidder shall furnish the City with all such information and data for the purpose as may be requested.

7. **ADDENDA AND INTERPRETATIONS:**

No interpretation on the meaning of the Plans, Specifications or other Contract Document will be made to any bidder orally. Every request for such interpretations should be in writing, addressed to the Finance Director, P.O. Box B, Woonsocket, Rhode Island 02895, and to be given consideration must be received at least seven (7) days prior to the date fixed for the opening of the bids. Fax transmissions will be accepted with written follow-up by bidder.

Any and all interpretations, and supplemental instructions which, if issued, will be mailed by regular mail to all perspective bidders (at the respective address furnished by the bidder for such purpose), not later than 48 hours prior to the date fixed for the opening of the bids (unless such addenda postpones the opening of bids). Failure of bidder to receive any such addendum or interpretations shall not relieve any bidder from obligation under his bid as submitted. All addenda so issued shall become part of the Contract Document.

8. **DELIVERY:**

All Purchases related to this bid are to be delivered FOB various locations within the City of Woonsocket, delivery to be supplied with the Purchase Order. No extra charges for delivery, handling or other services will be honored. Only inside delivery and set-up, where required, will be accepted. **TAILGATE DELIVERIES WILL BE REFUSED.** The vendor must notify the City of Woonsocket 24 hours prior to delivery. All claims for damage in transit shall be the responsibility of the successful bidder. The City will not make payment on damaged goods, they must be replaced or adjustments made at the option of the City. The City of Woonsocket is only represented by the Finance Director in these matters and said director shall be the only entity to negotiate any settlements. Deliveries must be made during normal working hours.

9. Bid price is to include the cost of uncrating and setting in place where noted.
10. Bid price is to include installation where noted.
11. Bidder must comply with all State Labor Laws for Public Works projects.
12. The successful bidder must have all current taxes paid which are owed to the City of Woonsocket.

In accordance with Rhode Island General Law 37-13-7, contracts in *excess of \$1,000*. Shall require compensation based on *prevailing wages* for construction, alteration and/or repair, painting & decorating. The rates are available from the Rhode Island Department of Labor at (401) 462-8580, or access on the web: www.access.gpo.gov/davisbacon/allstates.html for the State forms.

In accordance with Rhode Island General Law 37-13-14, bidders for public works/public building contracts in *excess of \$5,000 shall furnish a performance bond, upon conditional award of the contract*, at 100% of the contract price, conditioned upon faithful performance of the contract. A Labor and Materials Bond, at full contract value, is required upon conditional award of the contract.

**CITY OF WOONSOCKET
RHODE ISLAND
DEPARTMENT OF PUBLIC WORKS**

**TREATMENT CHEMICALS
INVITATION TO BID**

SPECIFICATIONS

WATER DIVISION

August 2016

SPECIFICATIONS FOR ALUMINUM SULFATE

SECTION 1

- Section 1.1** SCOPE: These specifications cover Aluminum Sulfate, liquid form, for use in the treatment of municipal water supplies. The Aluminum Sulfate shall conform to these specifications which includes excerpts from AWWA B403-98, Standard for Aluminum Sulfate.
- Section 1.2** DATA TO BE FURNISHED BY MANUFACTURER: The manufacturer shall, when requested, furnish the purchaser a sworn affidavit stating that the material conforms with the requirements of AWWA Standards for Aluminum Sulfate. The manufacturer shall furnish a table showing the percentage of (Al₂O₃) for different specific gravity readings and manufacturer's lot number for the material received. A current Material Safety Data Sheet (MSDS) shall accompany the bid.
- Section 1.3** DEFINITION: Aluminum Sulfate is the basic product of the reaction between sulfuric acid and a mineral rich in aluminum, such as bauxite. Liquid alum is a nearly saturated solution of aluminum sulfate.
- Section 1.4** REJECTION: Procedure as outlined in AWWA B403-98.

MATERIAL SPECIFICATIONS

SECTION 2

- Section 2.1** IMPURITIES: The Aluminum Sulfate supplied under this standard shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects upon public health or water quality.
- Section 2.2** CLARITY: Liquid Aluminum Sulfate shall be reasonably clear. It shall be of such clarity as to permit the reading of flow measuring devices without difficulty.
- Section 2.3** CONTENT OF ALUMINA: Liquid Aluminum Sulfate shall contain not less than 8.0 percent available water soluble aluminum (Al₂O₃) except by agreement between the manufacturer and the purchaser.
- Section 2.4** BASICITY: There shall be at least 0.3 percent by weight of the water soluble alumina (Al₂O₃) in excess of the amount theoretically required to combine with the sulfur trioxide (SO₃) present, exclusive of what is combined with the foreign sulfates.
- Section 2.5** IRON: The total water soluble from (Fe₂O₃) content of Alumina Sulfate shall be no more than .005 percent.
- Section 2.6** INSOLUBLE AND SUSPENDED MATERIAL: In liquid Aluminum Sulfate, the water insoluble matter shall not exceed 0.2 percent.

SHIPPING & MARKING

SECTION 3

- Section 3.1** **SHIPPING:** Liquid Aluminum Sulfate may be shipped in tank trucks containing 3,500 gallons. The tanks shall be rubber lined or made of stainless steel or any other suitable material which will not be attacked by the acidity of the liquid. If smaller quantities are purchased, an agreement between the manufacturer and the purchaser shall be made as to the size and type of container.
- Section 3.2** **MARKING:** Shipments of Liquid Aluminum Sulfate shall comply with the US Department of Transportation (DOT) regulations for marking.
- Section 3.3** **DELIVERY:** Bids shall be submitted on a unit price basis on anticipated delivery quantities of 3,500 gallons per order 32.2 degrees Baume Liquid Alum. The supplier's driver will not unload the truck without first making contact with the plant operator, who will show him where to connect his discharge hose. Delivery will be made between the hours of 8:30 am and 3:00 pm, Monday through Friday.

**City of Woonsocket
Rhode Island
Department of Public Works
Water Division**

SPECIFICATIONS FOR SODIUM SILICOFLUORIDE

GENERAL

SECTION 1

- Section 1.1** **SCOPE:** This specification covers Sodium Silicofluoride (Na_2SiF_6) which is also known as Sodium Fluorosilicate, intended for use in the treatment of potable water supplies. The material provided shall conform to AWWA B702-99 Standard for Sodium Silicofluoride, as well as, the following excerpts and special conditions listed. Preference will be given to domestically produced material.
- Section 1.2** **DATA TO BE FURNISHED BY MANUFACTURER:** The supplier must provide with his bid, certified analysis of the material covering size, density, heavy metals (as Pb), Sodium Silicofluoride content (dry basis) and moisture content, of the Sodium Silicofluoride to be supplied during the contract year. The supplier must provide a current Material Safety Data Sheet (MSDS) with the bid.
- Section 1.3** **REJECTION:** The purchaser reserves the right to make tests as necessary, to determine if the material meets these specifications. Testing, notice of dissatisfaction, and removal of material shall be as outlined in AWWA B702-99. Ripped or torn bags are not acceptable.

MATERIAL SPECIFICATIONS

SECTION 2

- Section 2.1** **SIZE & DENSITY:** The Sodium Silicofluoride supplied under this specification shall be a fine, dry granular material containing NO lumps and shall have a bulk density of approximately 85 lbs./ft³. The material shall meet the following size requirements:
1. At least 98 percent shall pass through a US Standard Sieve No. 40 (420 um).
 2. Less than 25 percent shall pass through a US Standard Sieve No. 325 (44 um).
- Section 2.1.1** **ANTICAKING AGENTS:** ANTICAKING agents may be used, if the agent is identified, and does not produce any interference with normal water treatment processes, such as, coagulation and sedimentation and do not impart any taste, odor or toxicity to water when it is treated with the normal amount of Sodium Silicofluoride.

Section 2.2 **CHEMICAL COMPOSITION**

Section 2.2.1 **SODIUM SILICOFLUORIDE CONTENT:** The Sodium Silicofluoride supplied under this specification shall have a minimum of 98 percent (dry basis) Sodium Silicofluoride (Na_2SiF_6) content which corresponds to approximately 59.4 percent fluoride ion.

Section 2.2.2 **MOISTURE:** Moisture content shall not exceed 0.5 percent by weight. The material shall remain free flowing when stored in a cool dry place for a period of three months from the date of receipt by the purchaser.

Section 2.3 **IMPURITIES**

Section 2.3.1 **GENERAL:** The Sodium Silicofluoride supplied under these specifications shall contain no stones, sticks, paper or particles of foreign matter. It shall contain no materials or organic substances in quantities capable of (1) producing deleterious or injurious effects on the health of those consuming water that has been properly treated with the Sodium Silicofluoride or (2) causing the water so treated to fail to meet the USEPA drinking water regulations.

Section 2.3.2 **INSOLUBLE MATTER:** Insoluble matter shall not exceed 0.5 percent by weight.

Section 2.3.3 **HEAVY METALS:** Heavy metals, expressed as lead, shall not exceed 0.05 percent by weight.

SHIPPING, PACKING & MARKING

SECTION 3

Section 3.2 **PACKING & SHIPPING:** Sodium Silicofluoride shall be shipped in multiwall paper bags containing 50 lbs. net weight each. Pallets will be shrink wrapped.

Section 3.2.1 **NET WEIGHT:** The net weight of packages shall not deviate from the recorded weight by more than 2.5 percent, plus or minus.

Section 3.2.2 **DELIVERY:** Bids shall be submitted on a unit price basis on anticipated delivery quantities of 50-50 lb. bags. The bags shall be palletized and shrink wrapped. Bags which have been broken and resealed or give the impression that they have been tampered with will not be accepted. Delivery shall be made within five working days of the vendor's receipt of the order, between 8:30 am and 3:00 pm, Monday through Friday.

Section 3.3 **MARKING:** Each package and container shall have legibly marked on it the name of the compound, the net weight of the contents, the name of the manufacturer, lot number and brand name, if any. Each package shall be marked with the appropriate hazard label and any other markings required by the US Department of Transportation. Each bag shall be marked with an appropriate label stating that the product conforms to AWWA specifications or NSF-60 certification.

Section 3.3.1 Accompanying each shipment will be a Material Safety Data Sheet.

City of Woonsocket
Rhode Island
Department of Public Works
Water Division

SPECIFICATIONS FOR HYDRATED LIME

GENERAL

SECTION 1

- Section 1.1.** **SCOPE:** These specifications cover Hydrated Lime for use in the treatment of potable water supplies. The Hydrated Lime shall conform to these specifications which include excerpts from AWWA B202-93 Standard for Quicklime and Hydrated Lime.
- Section 1.2** **DEFINITIONS:** The Hydrated Lime specified is a very finely divided white powder, resulting from the hydration of high calcium quick-lime with enough water to satisfy its chemical affinity. It essentially consists of Calcium Hydroxide in natural association with Magnesium Hydroxide. Dolomitic Hydrates are not acceptable.
- Section 1.3** **AFFIDAVIT OF COMPLIANCE AND MANUFACTURERS ANALYSIS:** Required with the bid documents is an affidavit from the vendor that the Hydrated Lime complies with this specification. An analysis from the manufacturer is also required providing data on percent Calcium Oxide content, (CaO), percent Magnesium Oxide content (MgO), and percent insoluble material. The supplier must provide a current Material Safety Data Sheet (MSDS) with the bid.
- Section 1.4** **BASIS FOR PURCHASE OF LIME:** Only Hydrated Lime manufactured from high Calcium Quicklime will be considered. The Hydrated Lime shall have a minimum Calcium Oxide content of 68%.
- Section 1.4.1** The sampling and testing method for CaO content is that found in Section 4.2 of AWWA B202-93.

MATERIAL
SECTION 2

- Section 2.1** **IMPURITIES:** The Hydrated Lime supplied under these specifications shall contain no material or organic substances capable of producing injurious or deleterious effects upon the health of those consuming the water that has been treated with it.
- Section 2.1.2** **FLUORIDES:** The amount and nature of Fluoride compounds in Lime supplied under this standard shall be such that the Fluoride content of the water, as distributed to the consumer, will not be increased more than 0.1 mg/l by treatment with the Lime.
- Section 2.2** **SIZE:** Hydrated Lime shall be WHITE, dry, finely powdered, free from lumps or any foreign material that might interfere with the operation of dry feed equipment and pump components. Uniformity of particle size is a desirable characteristic.

PACKING, SHIPPING AND MARKING

SECTION 3

- Section 3.1** PACKING: The Hydrated Lime shall be packed in 50 lb., net weight each, multiwall paper bags. The bags shall be placed on open bottom pallets adaptable to the Water Treatment Plant pallet truck. The Lime shall be shrink wrapped beginning with the first row of bags up to the top row of bags.
- Section 3.1.1** NET WEIGHT: The net weight of all packages shipped shall not deviate from the recorded weight by more than 1.5 percent, plus or minus. If exception is taken to the weight of the material received, it shall be based on a certified unit weight of not less than 10 percent of all packages shipped and selected at random from the entire shipment.
- Section 3.2** MARKING: Each shipment of material shall carry some means of identification. Each package shall have marked legibly its weight of contents, name of manufacturer, brand name, if any, and lot number.
- Section 3.3** SHIPPING: Bids shall be submitted on a unit price basis on anticipated delivery quantities of 400-50 lb. bags per order. Delivery shall be between 8:30 am and 3:00 pm, Monday through Friday, within five (5) working days of notification. The delivery truck bed shall not be more than 51 inches above the ground. The transported material shall be covered to protect the shipment from the weather. Wet or ripped bags will not be accepted.

City of Woonsocket
Rhode Island
Department of Public Works
Water Division

SPECIFICATIONS FOR LIQUID CHLORINE

SECTION 1

- Section 1.1** **SCOPE:** These specifications cover Liquid Chlorine for use in treatment of potable water. The Liquid Chlorine should conform to those specifications which include excerpts from AWWA B301-99 Standard for Liquid Chlorine.
- Section 1.2** **DATA TO BE FURNISHED BY MANUFACTURER:** The manufacturer shall, when requested, furnish the purchaser a sworn affidavit stating that the material conforms with the requirements of AWWA Standards for Liquid Chlorine. A current Material Safety Data Sheet (MSDS) shall accompany the bid.
- Section 1.3** **DEFINITION:** Liquid Chlorine is the commercially available form of liquified elemental chlorine gas.

MATERIAL SPECIFICATIONS

SECTION 2

- Section 2.1** **PHYSICAL CHARACTERISTICS:** In its liquid state, Chlorine is amber colored and about 1.5 times as dense as water. It exerts a vapor pressure varying with its temperature from 9 psig pressure at 28.8 degrees F. to about 150 psig pressure at 100 degrees F. At ordinary room temperature Liquid Chlorine exerts a pressure at about 90 psig. When the pressure is released, Liquid Chlorine vaporizes into a greenish-yellow gas, about 2.5 times as dense as air.
- Section 2.2** **CHEMICAL REQUIREMENTS:** Chlorine shall be 99.5% pure by volume as determined by analyzing the Chlorine as outlined in AWWA B301-99.
- Section 2.3** **IMPURITIES:** The Liquid Chlorine supplied under this standard shall contain no soluble mineral or organic substances in quantities capable of producing deleterious or injurious effects on the health of persons consuming water that has been treated with liquid chlorine.

PACKING, SHIPPING, MARKING

SECTION 3

- Section 3.1** **REQUIREMENTS:** Liquid Chlorine shall be supplied and shipped in 150 lb. cylinders.
- Section 3.2** **INSPECTION:** All containers shall be carefully examined by the supplier. Any containers that

show evidence of leakage, damage or corrosion shall be rejected. Chlorine cylinders, valves, valve threads and valve packings shall be in good mechanical order and shall operate normally with a wrench that is no longer than 8 inches.

Section 3.3 **PACKAGING:** The manufacturer or packager shall pack the liquid chlorine in containers that comply in every respect with the current Hazardous Materials Regulations of the US Department of Transportation (DOT) (49 CFR 100-177 [Chapter 1, Subchapter C]) for shipment of chlorine. The containers shall be inspected, reconditioned, cleaned, maintained and loaded in strict accordance with the latest edition of Chlorine Institute Pamphlet 17.

Section 3.4 **MARKING:** Each container shall be marked to clearly indicate the contents and shall bear the current proper precautionary information required by DOT, USEPA and other regulatory agencies concerned with the hazardous nature of chlorine.

Section 3.5 **DELIVERY:** Bids shall be submitted on a unit price basis on anticipated delivery quantities of 25-150 lb. cylinders per order.

TRAINING

SECTION 4

Section 4.1 The supplier will conduct a Chlorine Safety Seminar for up to 25 people to be held at the Water Treatment Plant on Manville Road in Woonsocket. The seminar will be at the supplier's expense and will be held at a date and time convenient for Water Department personnel. The seminar will cover at a minimum, general characteristics, health effects and safe handling of chlorine. The presenter will demonstrate correct usage of a Chlorine Emergency Kit A on an empty cylinder. Woonsocket Water has a kit available at the Treatment Plant. The demonstrator must provide an empty cylinder.

City of Woonsocket
Rhode Island
Department of Public Works
Water Division

SPECIFICATIONS FOR SODIUM HYPOCHLORITE

SECTION 1

- Section 1.1** **SCOPE:** These specifications cover Sodium Hypochlorite for use in the treatment of municipal water supplies. The Sodium Hypochlorite shall conform to these specifications which include excerpts from AWWA B300-99, Standard for Hypochlorites.
- Section 1.2** **DATA TO BE FURNISHED BY MANUFACTURER:** A manufacturer's analysis shall be submitted with the bid, stating that the material conforms with the requirements of AWWA Standards for Hypochlorites. Subsequent analysis will be due on the first and fifth shipment received by the purchaser. A current Material Safety Data Sheet (MSDS) shall accompany the bid.
- Section 1.3** **DEFINITION:** Sodium Hypochlorite solution (NaOCl) is a clear light yellow liquid containing up to 160 g/l available chlorine (16 trade percent.)
- Section 1.4** **REJECTION:** Procedure as outlined in AWWA B300-99.

MATERIAL SPECIFICATIONS

SECTION 2

- Section 2.1** **PHYSICAL REQUIREMENTS:** Sodium Hypochlorite solution shall be a clear liquid containing not more than 0.15 percent insoluble matter by weight.
- Section 2.2** **CHEMICAL REQUIREMENTS:** The Sodium Hypochlorite shall have an available chlorine content of no less than 148 or greater than 152 grams per liter of solution. It shall have a minimum of 0.4% or a maximum of 0.6% free alkali as NaOH.
- Section 2.3** **IMPURITIES:** The Sodium Hypochlorite supplied under this standard shall contain no soluble material or organic substances in quantities capable of producing deleterious or injurious effects on the health of those consuming a water that has been treated properly with the hypochlorite. The sodium hypochlorite shall be relatively free of dissolved compounds of iron, nickel, copper and other heavy metals which would accelerate its decomposition.
- Section 2.4** **STABILITY:** The pH of the Sodium Hypochlorite shall be between 10.0 to 11.5 and the temperature should not exceed 85 degrees.

MARKING, SHIPPING & DELIVERY

SECTION 3

- Section 3.1** MARKING: Hypochlorites are oxidizing materials generally used by water utilities as a disinfectant. Hypochlorites used for disinfection shall be registered, labeled and marked as prescribed by the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Labels should serve as a warning that the material is a strong oxidizing agent and that contact with heat, acids or organic or combustible materials could cause fire. Shipments shall also bear warning labels as specified by US Department of Transportation (DOT) regulations.
- Section 3.2** SHIPPING: The Sodium Hypochlorite shall be shipped in bulk lots, in vehicles intended for the purpose, which are thoroughly cleaned and free from foreign matter.
- Section 3.3** DELIVERY: The Sodium Hypochlorite shall be delivered to and pumped into the storage tanks at the Harris Pond Pump Station located on Privilege Street in Woonsocket. The driver must contact the Water Dept. prior to delivery to gain access to the station. Each shipment shall be approximately 500 gallons per order. It shall be delivered if and when ordered by the City and time of delivery shall be within four (4) days after notification by the City. Total amount ordered will be 5,000 gallons more or less.

**City of Woonsocket
Rhode Island
Department of Public Works
Water Division**

SPECIFICATIONS FOR LIQUID ORTHO/POLYPHOSPHATE BLEND

DESCRIPTION:

Furnish and deliver a food grade corrosion inhibitor/sequestrant to the Charles J. Hammann Water Treatment Plant located at 1500 Manville Road, Woonsocket, RI. Specifications should be addressed to Marc Viggiani, Acting Water Superintendent, at 401-767-1411.

INSTRUCTIONS TO BIDDERS:

Each bidder is required to complete and submit the bid form, product specification sheet, references and proposal. Failure to include the above documentation with the bid will disqualify the bid.

REQUIREMENTS AND PRODUCT CHARACTERISTICS:

1. All bidders must obtain finished water samples from the treatment plant and submit a water quality analysis with the bid. This analysis must be performed by an EPA Safe Drinking Water Act certified laboratory. Analysis will include the following:
 - PH (on-site)
 - Temperature (on-site)
 - Alkalinity
 - Total Hardness
 - Iron
 - Manganese
 - Phosphate (as PO₄)
 - Total Dissolved Solids
2. Phosphate product must be approved for use in potable water supplies by EPA. A letter of acceptance from this agency must accompany this bid.
3. Bidder shall provide a copy of product certification from the National Sanitation Foundation (NSF) as meeting the requirements of ANSI/NSF Standard 60 for Drinking Water Treatment Chemicals.
4. Product must be non-toxic to humans by meeting the RMCL's (Recommended Maximum Contaminant Level) as listed in the Water Treatment Chemicals Codex. Product must have a pH range of 5.1 to 5.6 and not have an injurious effect on water department personnel. A Material Safety Data Sheet must accompany the bid.
5. Product must function as a corrosion inhibitor without the presence of zinc, nor require reaction with calcium in low alkalinity waters.

6. Product must be able to gradually remove existing deposits without causing any major cosmetic/quality problems to the water customer.
7. Product must sequester iron and manganese over a temperature range of five (5) degrees to one hundred (100) degrees Centigrade and have a shelf-life in excess of two years.
8. Product must be a clear liquid and not precipitate out during normal handling and storage. Product turbidity must be less than 2.0 NTU.
9. Product must not increase bacteria colony counts in the distribution system. Documentation to substantiate this claim must be submitted with the bid.
10. Product must not increase distribution system chlorine demand at the maintenance dosage level.
11. Product shall not diminish nor jeopardize compliance with the EPA Lead & Copper Rule.
12. Product must have a successful history of use for a period of three years or more in municipalities of similar size and water characteristics. References for verification of product performance, delivery and technical support must be noted in the text below.
13. Bidder must supply a one gallon production sample of product bid identified by batch or control number at or before bid opening. At its discretion, the City may elect to verify product specifications and/or submit the sample for independent analysis.
14. Bidder may be required to conduct a limited 60-day coupon study in order to demonstrate the product's ability to maintain effective corrosion control.

REFERENCES:

Per the instructions in requirement 12 above, references for verification of performance in water systems which have recently used or are currently using the product are listed below.

MUNICIPALITY/COMPANY	STATE	CONTACT PERSON	TELEPHONE NUMBER
1.			
2.			
3.			

TECHNICAL SUPPORT REQUIREMENTS:

The successful bidder must provide product application instructions, specify appropriate metering equipment or adapt existing solution feed equipment where applicable.

The technical support representative must be familiar with the plant operations, water quality parameters and regulatory objectives. The representative must be available for the initial start up. The representative must recognize the impact of water quality adjustments on the distribution system and be available for assistance within 24 hours of call.

The successful bidder must provide quarterly distribution system water quality analysis to monitor performance of product. This analysis is to be performed by a SDWA certified laboratory and will include the following:

- pH (on-site)
- Temperature (on-site)
- Total Hardness
- Iron
- Manganese
- Phosphate (as PO₄)
- Copper (First Draw, as required)
- Lead (First Draw, as required)

Samples to be obtained at four (4) representative sites.

Failure of the product to meet the above requirements or the successful bidder to perform the services listed above may result in cancellation of a contract and award to the next lowest, responsible bidder.

DELIVERY:

1. Product will be delivered in bulk quantities (minimum 400 gallons). Bidder must be able to refill existing 55-gallon drums. Tank truck must be a certified food grade tanker. Proof of certification must be supplied with each order.
2. Product may be delivered in new, non-returnable fifty-five (55) gallon drums. Drums are to be translucent polyethylene drums certified for food product use.
3. All freight costs are to be paid by the supplier.

TECHNICAL SPECIFICATIONS:

The product bid must meet the following specifications. Bidders are required to complete this form and confirm or note exceptions in the right hand column. Failure to complete, attest and submit this form will result in rejection of this bid.

LIQUID ORTHO/POLYPHOSHATE BLEND		BIDDER INFORMATION
NAME:		
FORM:	LIQUID	
GRADE:	FOOD GRADE	
SPECIFIC GRAVITY:	MINIMUM 1.36	
WEIGHT (lbs./gal):	MINIMUM 11.4	
ODOR:	NONE	
APPEARANCE:	CLEAR LIQUID, LESS THAN 2 NTU	
pH:	(NEAT) 5.5-6.2	
SOLUBILITY:	MUST BE 100%	
STABILITY (Temperature):	ABOVE 212 °F	
FREEZE/THAW STABLE:		
SHELF LIFE:	IN EXCESS OF 2 YRS	
ACTIVE PHOSPHATE (PO₄) BY WEIGHT:	35% MINIMUM	
ORTHOPHOSPHATE:	50%	
POLYPHOSPHATE:	50%	
PHOSPHATE SPECIES IN PRODUCT:		
ANSI/NSF STD #60 MAX. USE LEVEL	23.4 mg/l	

COMPANY NAME

AUTHORIZED SIGNATURE

PRICE SCHEDULE

<u>CHEMICALS</u>	<u>ESTIMATED QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL PRICE</u>
LIQUID ALUMINUM SULFATE	150 DRY TONS ±		
SODIUM SILICOFLUORIDE	15 TONS ±		
HYDRATED LIME	170 TONS ±		
LIQUID CHLORINE	300 CYLINDERS ± (150 LBS. EACH)		
SODIUM HYPOCHORITE	5,000 GALS ±		
LIQUID ORTHO/POLYPHOSHATE BLEND	3,000 GALS ±		

PROPOSAL SUBMITTED BY:

COMPANY NAME: _____

ADDRESS: _____

CITY/STATE: _____ ZIP _____

BY: (PERSON) _____

SIGNATURE: _____

TELEPHONE NO. (____) _____

FAX NO. (____) _____

EMAIL ADDRESS: _____

**City of Woonsocket
Rhode Island
Department of Public Works
Water Division**

PLEASE NOTE THE FOLLOWING NEW SECTION:

The Woonsocket Water Division (WWD) has strict security measures in place. The successful bidder shall meet the following conditions for each delivery. Vendors who use an independent carrier must notify the carrier of these conditions. Failure to adhere to these conditions will result in refusal of shipments. Any expense resulting from redelivery shall be the responsibility of the bidder. Continued failure to comply with WWD security requirements will result in cancellation of the award which will go to the next lowest bidder.

1. The successful bidder will provide the WWD with the photos and names of the drivers making the deliveries.
2. The WWD will be notified of the name of the driver before the truck leaves the terminal. This allows the WWD staff to match up the driver and photo with his I.D. when he arrives.
3. The trucks will be sealed with a security tag, and the serial number will be faxed to the WWD after the truck has been loaded and is ready for shipping.
4. The tanker number/registration number will also be faxed to the WWD in order to match the numbers, assuring it is the same tanker that left the terminal.
5. The successful bidder will provide the WWD with an approximate delivery time on the morning of the shipment. This may be done by fax with the other required information. In the event that the shipment will be delayed more than 2 hours from the scheduled time, the vendor will contact WWD staff to inform them of the new delivery schedule.
6. The WWD will use two staff members on a regular basis to offload chemicals. This way they will become familiar with procedures, drivers, manifests, etc. It may be necessary for the driver to wait for the second staff member to arrive back at the plant. This delay will likely be no more than 15-30 minutes.
7. The manifests will contain all of the same information along with the serial numbers and tanker numbers.
8. The WWD staff will notify their supervisors of any discrepancies before proceeding with the off-loading process. Discrepancies will result in delay of chemicals being off-loaded until discrepancies are satisfactorily resolved. Ultimately, discrepancies could result in the loads being refused.