INVITATION TO BID

“CHEMICALS”
FOR USE AT THE CITY’S WASTEWATER TREATMENT PLANT

The City of New Bern, North Carolina is extending an invitation to bid to supply various chemicals used in the treatment process at the City’s water and wastewater treatment plants. Bids are requested for each of the following chemicals: Sodium Hypochlorite, Anhydrous Ammonia, Potassium Permanganate, Bulk Salt, Corrosion Control, Lime, Sodium Bisulfite and Polymer¹. The Bid for each chemical shall be evaluated separately and submitted according to the requirements in the enclosed Bid Packet.

Sealed bids will be received at the City of New Bern Public Utilities Administrative Building, 210 Kale Road, New Bern, North Carolina 28562, until 11:00 AM, September 2, 2014. Those interested in placing a bid are required to obtain and comply with the Bid Packet. Bid Packets may be obtained at that above location, or requested by phone at (252) 639-7527, or by contacting hughesj@newbern-nc.org between 8:00 AM to 5:00 PM, Monday – Friday.

¹Polymer performance testing is required prior to placing a bid on Polymer and must be completed by August 29, 2014 for bid to be considered. Prospective Bidders should contact majsforavich@newbern-nc.org or call (252) 639-7555 not later than August 22, 2014 to arrange performance testing date.

Notice Given By: Jordan B. Hughes, P.E.
City Engineer
August 11, 2014
City of New Bern

Bid Packet
for
Treatment Chemicals for the Water & Wastewater Treatment Plants

Bid Closing Date:  September 2, 2014  11:00 A.M.

Note: Questions concerning these Specifications and Bid Information should be directed to the City of New Bern:

**Bidding Questions**
Jordan Hughes, City Engineer
(252) 639-7527
Email – hughesj@newbern-nc.org

**Water Treatment Chemical Questions**
Dalton Gaskins, WTP Manager
(252) 639-7553
Email – gaskinsd@newbern-nc.org

**Wastewater Treatment Chemical Questions**
Judy Majstoravich, WWTP Manager
(252) 639-7555
Email – majstoravichj@newbern-nc.org
General:

1. Before submitting a Bid, each Bidder shall examine these instructions and the specifications contained herein and should be familiar with the site and chemical storage facilities.

2. For a Bid to be considered responsive, the Bidder shall submit, a sealed Bid, per the Invitation to Bid and per the instructions set forth in the Specifications and Bid Information document, including all information that has been requested. By submitting a Bid, the Bidder affirms all the terms and conditions set forth herein.

3. Should any omission or ambiguities in the specifications and/or instructions be discovered by the Bidder during the examination of the documents, it should be immediately brought to the attention of the City’s authorized representative or his designee, but not later than seven (7) days before the Bid opening date. All inquiries will be promptly reviewed and where necessary a clarifying written addendum issued.

4. This document consists of 20 pages, including the cover page.

Contract and Contract Period:

Upon written notification from the City that the bidder’s offer (the bid) has been approved and a Purchase Order, signed by the procurement officer has been issued, the successful bidder shall be considered as having entered into a contract with the City to supply the materials, goods, and/or services offered in the bid.

The contract will be for a period of September 15, 2014 – June 30, 2015. During the term of this contract the bidder agrees and commits to supply the goods, materials and/or service for the full term of the contract at the price bid, without increase.

Submitting a Bid:

1. Bidder shall include in their Bid, two (2) original, signed copies of their Bid.

2. Bidder must include in the following information with the Bid.

   A. A statement that return freight on all containers is collect, and paid by bidder
   B. A statement of standard operating procedures for bin returns including restrictions, if any.
   C. Minimum ordering quantities or other restrictions.
   D. Expected delivery time from placement of an order.

   Everything comes together here.
3. Bidder shall submit a single Bid; alternate Bids will be rejected.

4. The Bid Price for each chemical shall reflect the “Total Delivered Price”, including all applicable Federal, State, Use or other taxes, fees, surcharges, fuel charges, demurrage charges, transportation (including the returning of empty totes or containers back to the manufacturer after use), and any labor and equipment costs for the actual product, delivered to the designated facility.

5. On the Bid Form (pg.20), the Bidder shall clearly show the total offering price (Bid Price) in terms of - **Price Per Unit** of the product bid. (This is the total delivered price, as described above in this section). That price shall be valid for any and all quantities ordered during the term of the contract, regardless of type or size of container or delivery method.

6. The bid price shall be valid for the full term of the contract and shall not be subject to increase.

7. Bids submitted units other than specified, may be considered as not responsive bid.

8. Certain technical or consultation services, as may be requested during the life of the contract, which pertain to the use, application, or training on the product shall be provided by the Bidder. Such consultative services shall be included as part of the bid price.

9. The City expects conformance to all of the conditions as specified herein and does not anticipate nor expect that any exceptions will be taken. The City, may, at its sole discretion, consider any Bid in which the Bidder has taken exception, as that Bid being non-responsive when such exception(s) taken serves to alter or change a stipulation or condition specified herein. The City reserves the right, by its sole judgment, to determine whether any such exception being taken conforms to the specifications. And, further, reserves the right to determine whether any such exception taken is significant or insignificant and to proceed with making a decision that best serves the interests of the City.

10. The Bid shall include a complete MSDS for the product(s) being offered. In conformance with the GHS Standards, recently adopted by OSHA, the Bidder shall include in the Bid or immediately upon acquiring said information, but not later than September 15, 2014; Safety Data Sheets, Label information and Hazard Classification for their product(s).

11. By placing a Bid, the Bidder agrees to the terms and conditions as stated in the Invitation to Bid, and the Bid Packet.

12. In order for a Bid to be considered it must be received by the Department in a sealed envelope, prior to the advertised bid closing date and time. The envelope shall bear on the outside, the Bidder’s name (name of business) and a return

*Everything comes together here.*
address and shall be clearly labeled “**NEW BERN TREATMENT CHEMICAL – BID**”. The Bid shall either be sent by mail (e.g. U.S. mail, Fed Ex etc.) or hand delivered.

13. Bids that are mailed should be sent to the following address, which is the mail box location for the Utilities Department at City Hall:

   City of New Bern Public Utilities  
   Attn: Mr. Jordan Hughes  
   P.O. Box 1129  
   New Bern, NC  28563

14. For bids that are mailed, the bid is considered as having been “received” by the Department only after a representative, designated by the City’s authorized representative takes possession of the bid. Note: The date of Post Marking will not be considered. The City is not liable for lost, stolen, late or misdirected mail.

15. For Bids that are hand delivered to Department, the bid is considered as having been “received” by the Department only after a representative, designated by the City’s authorized representative takes possession of the bid. Hand delivered bids can be delivered to:

   City of New Bern Public Utilities  
   Administration Building  
   210 Kale Road  
   New Bern, NC  28562

16. It is the responsibility of the Bidder to submit their Bid on time. No Bids will be received after the closing date and time. The bidder assumes any and all risks for the chosen method to deliver their Bid.

17. Bids received after the advertised closing date/time, will not be considered.

**Taxes:**

Bidders are required to charge and include in their bid any and all taxes (i.e. Federal, State, County, Local, Use and environmental taxes) as may be applicable, with respect to providing goods, materials and/or services. Additionally, the bidder must itemize and show these taxes on each invoice sent to the City for payment.

**Fuel Surcharges:**

Bidders should carefully consider any and all fuel costs to manufacture, transport/deliver their product and for the returning of totes or containers after use. These costs are considered as being an integral part of the bid price of the product(s) for the full term of the contract. The bid instructions do not make allowance for the adding of fuel surcharges.

*Everything comes together here.*
during the term of the contract. The successful Bidder will be required to honor their bid price for the term of the contract, without price modification or adding fuel surcharges.

**Quantities:**

Unless otherwise stated in this document, the City of New Bern will, during the contract period, make all purchases for the identified chemicals exclusively from the successful Bidder(s). The Bidder is obligated to supply the quantity(s) which the City of New Bern may require for its operation. Any quantities stated herein or as otherwise may be discussed are provided as a general guide only. The actual quantities ordered, if any, may be more or less. The Bidder must state all restrictions, if any, in their bid, including minimum or maximum quantities per each delivery.

Any restriction that may present a logistical complication to the efficient or effectual operation of the facility, in the City’s sole judgment, may be just cause to reject the bidder’s bid.

A decline in effectiveness of the product shall be cause for contract cancellation as provided for herein. The City of New Bern reserves the right to use other methods and chemicals or products during the course of the contract, which may or may not affect the quantity chemical purchased. The City guarantees no minimum quantity will be purchased. The City of New Bern may make purchases from other bidders if bidder cannot meet New Bern’s delivery requirements or desired quantities.

**Quality:**

All chemicals to be supplied to the City must meet the criteria as outlined in this specification at the time of delivery. Product not meeting the specifications as outlined in this document, if known at the time of delivery, is cause for rejecting the delivery, without any additional cost to the City.

**Approved Equal(s):**

If the bidder is planning to quote a product(s) other than the brands specified in this document as an “approved equal”, then documentation of the alternative product must be submitted to the City Engineer for review and approval at least five (5) days prior to the bid opening. Approved Equals will only be allowed in the bidding if they have been approved in advance of the bid opening.

**Technical Services:**

In the event of an issue regarding the performance of the product supplied, the Treatment Plant Manager may request and the bidder supply, at no additional cost to the City of New Bern, on-site technical services and/or consultations.

*Everything comes together here.*
Shipping, Receiving and Unloading:

The quantity of chemical ordered per shipment will be determined by the City of New Bern at the time the order is placed. The bidder shall cooperate with the City of New Bern in supplying any quantity of chemical that is needed or requested. The City of New Bern reserves the right to refuse, delay or limit delivery at the time of delivery. The City of New Bern will not be responsible to pay demurrage for any reason. The bidder shall supply chemicals in the size and type of container that is specified for each chemical.

The trucks delivering chemicals shall meet all applicable State and Federal requirements and shall arrive in good working condition, equipped with all fittings, tools and materials required to ensure the safe unloading of the containers. By placing a Bid the Bidder agrees to abide by the City of New Bern safety requirements and will make every effort to prevent any unsafe situation when making deliveries.

Time of Delivery:

The bidder must assure the ability and commitment to deliver a continuous supply of product to the City of New Bern Treatment Plants. Unless approved in advance, deliveries shall be as specified below for each chemical at each facility. Deliveries shall not be made on Saturdays, Sunday or Holidays, unless requested by the City of New Bern. The bidder shall, if requested by the City of New Bern, develop a delivery schedule that shall be followed during the course of this contract, unless revision is made or approved by the City. If the Operational requirements of the Treatment Plants dictate, the City of New Bern may elect to change the bidder’s delivery schedule. Should the bidder be unable to comply with his/her delivery schedule or fail to keep the City of New Bern in continuous supply of product or not be able to supply the Treatment Plants with an unexpected emergency delivery within 24 hours, due to lapse in communication, manufacturing, transportation, or any other cause; then the City of New Bern reserves the right to obtain material required from any source without waving or voiding any of the terms and conditions of this contract.

Payment and Method of Purchasing:

A blanket P.O. will be issued for the contract period at the time the bid is awarded. The total amount stated on the P.O. provided by the City shall be considered as an “Not to Exceed Amount”. Any unspent funds remaining on the P.O. at the end of the fiscal year (the end of the contract term) shall not be misconstrued as an obligation or commitment on the part of the City to place additional orders or to otherwise make purchases up to the total amount stated on the P.O. The City guarantees no minimum quantity will be purchased, regardless of amount specified on the P.O. during the term of the contract.
Payment will be made for individual shipments after receipt of an invoice from the bidder. The invoice must break out any and all applicable tax from the total price and show as a separate item on the invoice. However, the invoice total must reflect the total delivered price.

The City shall not be charged for any amount of product that cannot be unloaded into the City’s storage tank(s) or is otherwise unable to be unloaded.

**Cooperation:**

The bidder and the City of New Bern personnel will cooperate closely in scheduling and resolving any service or product related issues. Should an unacceptable situation develop with respect to goods or service in the opinion of the Plant Manager, or there be a decline in the effectiveness of the product supplied; the following steps will initiated by the City: The Plant Manager or his authorized representative shall notify the bidder of the problem, giving the bidder the opportunity to correct the deficiency(s). For issues that do not critically impact the operations or hinder the compliance with a permit or regulation, then the bidder shall have 10 calendar days to resolve such problem(s) to the satisfaction of the Manager.

For issues that may adversely impact plant operations, hinder or lead to the non-compliance with a permit or regulation; upon verbal notification the bidder shall immediately correct any all deficiencies deemed critical by the Plant Manager. If the bidder is unable or unwilling to correct the problem(s) to the satisfaction of the Plant Manager within the allotted time frame (within 24 hours or sooner for critical items or by the end of the 10 day period for all other deficiencies); then the City may obtain the product or service from another bidder until such time as the noted deficiency(s) is corrected.

If the problem remains uncorrected at the end of the 10 day period, then the City may notify the bidder in writing that the contract will be terminated.

Nothing contained herein shall preclude the City from purchasing a similar or different product, at will, and at any time during the life of the contract, so long as such purchases are not for the identical product, except that an identical product or service may be purchased under the conditions expressed in this section.

Upon written notification of any unsatisfactory condition, the bidder shall have 10 calendar days to resolve such problem(s) to the satisfaction of the City. If a satisfactory solution has not been made by the end of that period, the City Controller may, with the advice from the Department, may notify the bidder in writing that the contract will be considered annulled in an additional 20 calendar days. The City may then solicit new bids at its sole discretion.

*Everything comes together here.*
City’s Authorized Representative:

The City’s authorized representative is the City Engineer or in his absence, the Water/Wastewater Treatment Plant Manager.

Method of Award:

The successful Bidder will be determined separately for each product listed in the Bid Form on the basis of the lowest responsive and responsible bid and other pertinent considerations. The City of New Bern reserves the right to reject any or all bids, to waive any informalities or irregularities in the bids received, and to award the bid for each product which in the City’s sole judgment best serves the interests of the City.

After the bid opening the results will be evaluated by operations staff and make a recommendation to plant management. Plant management will then consider this recommendation, including any pertinent information, and make recommendation to the City Engineer concerning a bidder to supply Chlorine to the City of New Bern Wastewater Treatment Plant for the next fiscal year.

Notice of Award:

The letter will contain a blanket purchase order for the contract period. Orders may be placed immediately by the Department upon issuance of an approved P.O. to the bidder. Please Note: The amount on the purchase order is a not to exceed amount, or maximum amount that may be purchased during the fiscal year from the successful Bidder. The City does not guarantee a minimum amount to be purchased or that any amount or quantity will be purchased during the term of the contract.

Interim Purchases:

Nothing in this bid information and specifications document shall preclude the City’s right to follow the City’s procurement code in making small purchases, from any bidder. Such may occur, but is not limited to purchases made on an emergency basis, or at the end of a fiscal year and before a new contract has been awarded, or at other times that the City is not under contract.
Sodium Hypochlorite (Cove City Wells)

Material Requirements:

The bidder shall supply “Trinity” brand sodium hypochlorite or approved equal. The material furnished under these specifications shall conform to AWWA Standard 300-92. The bidder must be able to supply a certificate of analysis for each lot of material delivered with a minimum of the following information:

- Lot Number
- Specific Gravity @ 60 degrees F.
- Excess caustic content by volume
- Chlorine concentration of 12.5%

If requested by the City, the bidder will collect a representative sample of each load for analysis prior to delivery. The City reserves the right to reject any delivery not conforming to the required specifications and/or containing excessive insoluble matter. The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Equipment Requirements:

The bidder shall install and maintain sodium hypochlorite storage tanks for Cove City Wells 1-5. The tanks furnished shall meet the following specifications:

- 500 gallon poly-ethylene, with 50 gallon graduation marks
- Schedule 80 fittings and bulkhead valve (bottom feed)
- Bulkhead fittings should be installed on a flat surface (cylindrical tank)
- Provide ½” FPT opening exiting the bulkhead valve
- 3/4” opening in top of tank for vent/bleed line

The bidder shall repair or replace tanks and fittings as needed. Same day equipment repair or replacement shall be performed by 4pm if the bidder is notified by the City by 10am.

Delivery Requirements:

The bidder shall deliver approximately 500 gallons of material to the Cove City Wells on a weekly basis. Material will be delivered on Wednesday, starting no earlier than 8:30am and concluding no later than 11:30am. The City of New Bern must be notified Monday morning if that week’s delivery cannot be made within the specified time. Same day emergency fill up shall be performed by 4pm if notified by the City before 10am. The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Sodium Hypochlorite (Water Treatment Plant)

Material Requirements:

The bidder shall supply “Trinity” brand sodium hypochlorite or approved equal. The material furnished under these specifications shall conform to AWWA Standard 300-92. The bidder must be able to supply a certificate of analysis for each lot of material delivered with a minimum of the following information:

- Lot Number
- Specific Gravity @ 60 degrees F.
- Excess caustic content by volume
- Chlorine concentration of 12.5%

If requested by the City, the bidder will collect a representative sample of each load for analysis prior to delivery. The City reserves the right to reject any delivery not conforming to the required specifications and/or containing excessive insoluble matter. The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Delivery Requirements:

The bidder shall deliver a 4,000 gallon truckload of material to the Water Treatment Plant on a bi-monthly basis. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery will begin no earlier than 8am and conclude no later than 2pm. Same day emergency fill up shall be performed by 4pm if notified by the City before 10am. The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Anhydrous Ammonia (Cove City Standpipe & WTP)

Material Requirements:

The bidder shall supply “Tanner” brand Anhydrous Ammonia or approved equal. The material furnished under these specifications shall conform to AWWA Standard B305-06.

The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Equipment Requirements:

The bidder will be responsible for repairing tank leaks and faulty tank equipment. This excludes leaks on customer plumbing downstream of tank shutoff and tank heating controls.

Delivery Requirements:

The bidder shall deliver approximately 3,000 pounds of material to the Cove City Standpipe and Water Treatment Plant (combined) on a quarterly basis. The City of New Bern will provide a minimum 5 working day notice to set a delivery date and time.

The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

The bidder shall be responsible for cleanup and reporting of any material released during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Potassium Permanganate (Water Treatment Plant)

Material Requirements:

The bidder shall supply “F2 Industries K-OX free-flowing grade” potassium permanganate or approved equal. The material furnished under these specifications shall conform to AWWA Standard B603-10.

The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Delivery Requirements:

The bidder shall deliver approximately 24 buckets (1,320 lbs) of material on a monthly basis. The bidder will be responsible for transporting material from the delivery truck to the chemical storage room. Damaged or previously opened buckets will not be accepted. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery shall begin no earlier than 8am and conclude no later than 2pm.

The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Bulk Salt (Water Treatment Plant)

Material Requirements:

The bidder shall supply “Cargill” brand salt or approved equal. The material furnished under these specifications shall conform to AWWA Standard B200-07.

The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Delivery Requirements:

The bidder shall deliver approximately 25 tons of material on a weekly basis. The City will provide a minimum 3 working day notice for setting a delivery date and time. Delivery shall begin no earlier than 8am and conclude no later than 2pm.

The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Corrosion Control  *(Water Treatment Plant)*

**Material Requirements:**

The bidder shall supply “Carus 8500” brand orthophosphate blend or approved equal. The material furnished under these specifications shall conform to AWWA Standard B506-06.

If requested by the City, the bidder will collect a representative sample of each load for analysis prior to delivery. The City reserves the right to reject any delivery not conforming to the required specifications and/or containing excessive insoluble matter. The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

**Delivery Requirements:**

The bidder shall deliver approximately 300 gallons of material on a monthly basis. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery shall begin no earlier than 8am and conclude no later than 2pm.

The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Material Requirements:

The bidder shall supply “Trinity” brand sodium hypochlorite or approved equal. The material furnished under these specifications shall conform to AWWA Standard 300-92. The bidder must be able to supply a certificate of analysis for each lot of material delivered with a minimum of the following information:

- Lot Number
- Specific Gravity @ 60 degrees F.
- Excess caustic content by volume
- Chlorine content by weight, must be consistent at 12.5%

If requested by the City, the bidder will collect a representative sample of each load for analysis prior to delivery. The City reserves the right to reject any delivery not conforming to the required specifications and/or containing excessive insoluble matter. The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Delivery Requirements:

The bidder shall deliver a 1,000 gallon truckload of material to the Wastewater Treatment Plant on a bi-weekly basis. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery is preferred 8a.m.-5p.m., Monday – Friday, however afterhours and weekend deliveries can be accommodated. Same day emergency fill up shall be performed by 4pm if notified by the City before 10am. The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

For delivery, the bidder shall have the ability to supply the material through a hose for a length of 45’.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Material Requirements:

The bidder shall supply “Praestol K 148 L” brand polymer or approved equal. For bidders wishing to quote a Polymer other than “Praestol K 148 L”, performance testing is required prior to placing a bid on Polymer and must be completed by August 29, 2014 for bid to be considered. Prospective Bidders should contact majstoravichj@newbern-nc.org or call (252) 639-7555 not later than August 22, 2014 to arrange performance testing date.

The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Delivery Requirements:

The bidder shall deliver a tote container with a volume of 200-300 gallons of material to the Wastewater Treatment Plant on a monthly basis. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery is preferred 8a.m.-5p.m., Monday–Friday; however afterhours and weekend deliveries can be accommodated. The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

For delivery, the City will provide a fork lift and operator to assist with unloading.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Material Requirements:

The bidder shall supply lime which meets the following chemical and physical specifications:

**Physical size must be 1/4” x 1/8”**

**Typical Analysis:**

<table>
<thead>
<tr>
<th>Material</th>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Oxide</td>
<td>CaO</td>
<td>93.00 +1</td>
</tr>
<tr>
<td>Magnesium Oxide</td>
<td>MgO</td>
<td>1.40 +.5</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>AL2O3</td>
<td>0.21</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>Fe2O3</td>
<td>0.26</td>
</tr>
<tr>
<td>Silica Oxide</td>
<td>SiO2</td>
<td>1.4</td>
</tr>
<tr>
<td>Sodium Oxide</td>
<td>Na2O</td>
<td>0.07</td>
</tr>
<tr>
<td>Potassium Oxide</td>
<td>K2O</td>
<td>0.25</td>
</tr>
<tr>
<td>CaO as Calcium Carbonate</td>
<td>CaCO3</td>
<td>0.96</td>
</tr>
</tbody>
</table>

**Additional Testing:**

- Available Calcium Oxide 92.0 Min.
- Loss on ignition 0.75%
- Residue after slaking 1 % Av
- Reactivity AWWA 40 degree rise in 3 min.
- Bulk Density 50 lbs/cu ft.
- Specific Gravity 3.2-3.4

If requested by the City, the bidder will collect a representative sample of each load for analysis prior to delivery. The City reserves the right to reject any delivery not conforming to the required specifications and/or containing excessive insoluble matter. The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

**Delivery Requirements:**

The bidder shall deliver 24 tons of material to the Wastewater Treatment Plant approximately every 3 weeks. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery is preferred 8a.m.-5p.m., Monday – Friday, however afterhours and weekend deliveries can be accommodated. The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

For delivery, the bidder shall have the ability to auger or blow the material onto a 28 ton hopper.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
Material Requirements:

The bidder shall supply sodium bisulfite which meets the following chemical and physical specifications:

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
<th>Typical</th>
</tr>
</thead>
<tbody>
<tr>
<td>NaHSO₃ % by wt.</td>
<td>38.0</td>
<td>42.0</td>
<td>40.0</td>
</tr>
<tr>
<td>Specific Gravity @ 20°C</td>
<td>1.31</td>
<td>1.38</td>
<td>1.34</td>
</tr>
<tr>
<td>pH</td>
<td>3.8</td>
<td>5.0</td>
<td>4.0</td>
</tr>
<tr>
<td>SO₂ available % by wt.</td>
<td>23.4</td>
<td>25.8</td>
<td>24.6</td>
</tr>
<tr>
<td>Sodium Thiosulfate (ppm)</td>
<td>-</td>
<td>-</td>
<td>100</td>
</tr>
<tr>
<td>Iron as Fe (ppm)</td>
<td>-</td>
<td>-</td>
<td>11.2</td>
</tr>
<tr>
<td>Sulfate as Na₂SO₄ % by wt.</td>
<td>-</td>
<td>-</td>
<td>0.5</td>
</tr>
</tbody>
</table>

If requested by the City, the bidder will collect a representative sample of each load for analysis prior to delivery. The City reserves the right to reject any delivery not conforming to the required specifications and/or containing excessive insoluble matter. The bidder shall provide each facility listed in the contract with a current copy of the Material Safety Data Sheet for this chemical and shall provide on-site training in the use of the chemical, equipment, and safety.

Delivery Requirements:

The bidder shall deliver a 150 gallons of material to the Wastewater Treatment Plant on a weekly basis. The City of New Bern will provide a minimum 3 working day notice to set a delivery date and time. Delivery is preferred 8a.m.-5p.m., Monday – Friday, however afterhours and weekend deliveries can be accommodated. Same day emergency fill up shall be performed by 4pm if notified by the City before 10am. The amount of material the City of New Bern plans to purchase under this contract is an estimate based on current demand.

For delivery, the bidder shall have the ability to supply the material through a hose for a length of 45’.

The bidder shall be responsible for cleanup and reporting of any material spilled during delivery.

The bidder shall be responsible for any equipment or property damaged during delivery.
**BID FORM**

**DESCRIPTION:** Water & Wastewater Treatment Chemicals  
**BID OPENING DATE:** September 2, 2014  
**BID OPENING TIME:** 11:00 a.m.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>UNIT</th>
<th>AMOUNT BID</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sodium Hypochlorite Cove City Wells</td>
<td>Gallon</td>
<td>$____________________per gallon</td>
</tr>
<tr>
<td>2</td>
<td>Sodium Hypochlorite Water Treatment Plant</td>
<td>Gallon</td>
<td>$____________________per gallon</td>
</tr>
<tr>
<td>3</td>
<td>Anhydrous Ammonia Water Treatment Plant</td>
<td>Pound</td>
<td>$____________________per pound</td>
</tr>
<tr>
<td>4</td>
<td>Potassium Permanganate Water Treatment Plant</td>
<td>Pound</td>
<td>$____________________per pound</td>
</tr>
<tr>
<td>5</td>
<td>Bulk Salt Water Treatment Plant</td>
<td>Ton</td>
<td>$____________________per ton</td>
</tr>
<tr>
<td>6</td>
<td>Corrosion Control Water Treatment Plant</td>
<td>Gallon</td>
<td>$____________________per gallon</td>
</tr>
<tr>
<td>7</td>
<td>Sodium Hypochlorite Wastewater Treatment Plant</td>
<td>Gallon</td>
<td>$____________________per gallon</td>
</tr>
<tr>
<td>8</td>
<td>Polymer Wastewater Treatment Plant</td>
<td>Gallon</td>
<td>$____________________per gallon</td>
</tr>
<tr>
<td>9</td>
<td>Lime Wastewater Treatment Plant</td>
<td>Ton</td>
<td>$____________________per ton</td>
</tr>
<tr>
<td>10</td>
<td>Sodium Bisulfite Wastewater Treatment Plant</td>
<td>Gallon</td>
<td>$____________________per gallon</td>
</tr>
</tbody>
</table>

BIDDER ______________________________________________________________________________

ADDRESS _____________________________________________________________________________
_____________________________________________________________________________

Federal Identification Number _____________________

Authorized Agent ____________________________ Title __________________________________

Signature __________________________________________________________ Date ________________

THIS SECTION TO BE COMPLETED BY CITY OF NEW BERN:

Reviewed by City of New Bern_________________________________________________ Date______________

City Engineer

*Everything comes together here.*