

AUGUST 1, 2007
ADDENDA NUMBER: 1
BID NUMBER: RFB2008-002-TC
TITLE: FERRIC CHLORIDE

THIS ADDENDUM IS TO CHANGE THE QUANTITY OF FERRIC CHLORIDE THAT WILL BE PROCURED, THE SPECIFICATIONS, THE RESULTANT CONTRACT PERIOD, AND THE BID OPENING DATE.

ITEM #1 – QUANTITY IS CHANGED TO 34,000 GALLONS TWO (2) TANKER CARS

ITEM #2 – DELETED

THE SPECIFICATIONS HAVE BEEN CHANGED AND ARE ATTECHED.

THE CONTRACT PERIOD IS CHANGED TO ONE (1) YEAR

THE BID OPENING DATE HAS BEEN EXTENDED TO AUGUST 15, 2007.

YOU MUST RETURN VERIFICATION OF RECEIPT OF THIS ADDENDUM AND THE COMPLETED PAGE 4 PRICING DETAIL FORM (ATTACHED) WITH YOUR BID RESPONSE VIA LETTER OR A SIGNED COPY OF THIS FORM. FAILURE TO DO SO MAY CAUSE YOUR BID TO BE CONSIDERED NON-RESPONSIVE.

ACKNOWLEDGED AND RETURNED: WITH BID: _____ BY LETTER: : _____

SIGNATURE

PRINTED NAME

TITLE

COMPANY

PAGE 4
 PRICING DETAIL FORM
 REQUEST NUMBER: RFB2008-002-TC

THIS BID IS ISSUED ON BEHALF OF THE ALBUQUERQUE/BERNALILLO COUNTY
 WATER UTILITY AUTHORITY BY THE CITY OF ALBUQUERQUE. ALL REFERENCES
 TO THE CITY OF ALBUQUERQUE IN THIS BID AND RELATED DOCUMENTS SHALL
 BE CONSTRUED TO APPLY TO THE AUTHORITY ONLY.

IN ACCORDANCE WITH THE ENCLOSED
 SPECIFICATIONS, TERMS, AND CONDITIONS,
 FURNISH THE CITY OF ALBUQUERQUE WITH THE
 FOLLOWING:

FERRIC CHLORIDE ON AN "AS NEEDED" BASIS.

GROUP NO.	ITEM NO.	QUANTITY/Unit	ITEM DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	1	34,000.00 GAL ESTIMATED	FERRIC CHLORIDE PER ATTACHED SPECIFICATIONS	_____	_____

THE YEARLY USAGE FIGURE IS AN ESTIMATE AND IS
 DETERMINED TO BE REASONABLE. HOWEVER, THE
 CITY RESERVES THE RIGHT TO PURCHASE ADDITIONAL
 FERRIC CHLORIDE IF THE NEED DICTATE.

UNIT PRICING WILL INCLUDE SHIPPING, HANDLING, DELIVERY
 AND UNLOADING COSTS, AND ALL APPLICABLE TAXES.

THIS IS AN "ALL OR NONE" AWARD

ALL BIDS MUST INCLUDE A COPY OF THE CHEMICAL ANALYSIS
 OF THE FERRIC CHLORIDE SOLUTION BEING OFFERED.

ALL UNIT PRICING IS AT A FIXED UNIT PRICE FOR TWELVE (12) MONTHS.

*****LAST ITEM REQUESTED*****

TECHNICAL SPECIFICATIONS FOR FERRIC CHLORIDE

GENERAL

The Albuquerque Bernalillo County Water Utility Authority (Authority) is interested in purchasing approximately 34,000 gallons of ferric chloride. The ferric chloride will be delivered to a bulk storage tank farm by rail tanker.

PRODUCTS

1. The ferric chloride solution shall meet the following requirements:

<u>Property</u>	<u>Range</u>
Fe (III)	13.1 – 14.5%
FeCL3 (AWWA Equivalent)	37 – 42%
Fe (II)	<0.25%
Free HCL	<0.25%
Sulfur as Sulfate	3 – 5 %
Water-Insoluble Matter	<0.1%
Specific Gravity	1.3 – 1.5, 1.4 Avg.
Barium	< 1 mg/kg
Cadmium	< 1 mg/kg
Chromium	<50 mg/kg
Copper	<50 mg/kg
Lead	< 5 mg/kg
Nickel	<40 mg/kg
Silver	< 1 mg/kg
Zinc	<100 mg/kg
Magnesium	<100 mg/kg
Molybdenum	<2 mg/kg
Titanium	<50 mg/kg
Antimony	< 10 mg/kg
Arsenic	< 10 mg/kg
Selenium	< 10 mg/kg
Mercury	< 10 mg/kg

2. General:

The Ferric Chloride product shall conform to the American Water Works Association's standard for Liquid Ferric Chloride, B406-06 except as supplemented in this specification. Failure to meet any aspect of this specification may result in refusal of individual deliveries or immediate termination of the contract.

3. Quality:

a) Certification -The Ferric Chloride product shall be Certified as suitable for contact with or treatment of drinking water by an accredited certification organization in accordance with the most current American National Standards Institute National Science Foundation Standard 60 (Drinking Water Treatment Chemicals - Health Effects). A copy of the ANSI/NSF-60 acceptance Letter shall be supplied with the bid.

b) Performance Requirements

Ferric Chloride shall not crystallize in storage.

- The Ferric Chloride product shall not cause any adverse effect on the condition of the filter media or chemical delivery systems that ill adversely affect performance.
- The Ferric Chloride product shall be resistant to and free from biological contamination.

- The Ferric Chloride product supplied according to this specification shall contain no substances in quantities capable of producing deleterious or injurious effects to the health of those consuming water that has been treated with Ferric Chloride product in accordance with supplier's recommendation and within the maximum allowed dosage.

c) Other Physical and Chemical Properties:

- Appearance: Orange-brown, acidic, corrosive aqueous solution
- Specific Gravity (25C): 1.3 -1.5, 1.4 average
- FeCl₃ percent (AWWA Equivalent) 37-42%
- FeCl₂ weight percent: 0.5
- Total iron weight percent: 13.1 -14.5
- Percent free acid (as HCl): less than 0.25
- Insoluble matter percent <0.1
- Sulfur as Sulfate Percent 3 - 5
- Biological contamination -none.

3. Testing and Verification

Testing methods shall be according to the current Ferric Chloride AWWA standard

4. Delivery Requirements

Deliveries shall only be scheduled by the Authority and are determined by the amount of water processed through the facility. The Authority reserves the right to test each shipment and reject the shipment if the chemical does not meet these specifications.

The successful bidder shall submit a certificate of analysis (COA) with these specifications for each delivery of Ferric Chloride. The certificate of analysis should contain:

Weight Percent FeCl₃

Specific gravity

Percent weight of FeCl₂.

Percent total iron

Free Acid as HCL

Metals content (provide quarterly analysis testing).

DELIVERY CONDITIONS

Suppliers will deliver the ferric chloride by rail tanker to following address:

El Pueblo Tank Farm
Paseo Del Norte Rail Spur
Albuquerque, NM

Deliveries for this location are to be made between 8:00 a.m. and 3:00 p.m. Monday through Thursday.

The supplier must have all delivers including rail cars weighed at a certified scale. The supplier must provide the Authority with a weight ticket at the time of delivery.

The Authority will place orders with the supplier for a quantity of approximately two 17,000 gallons per rail tank cars.

TERMS OF CONTRACT AND RENEWAL CONDITIONS

Bid pricing is to be at a fixed unit price for twelve months from the date of the purchase order. The unit price must include all handling, shipping, delivery, and unloading costs. A contract resultant of this bid may be extended for up to two additional twelve month periods or any part of a twelve month period by mutual agreement between the supplier and the Authority.

Continued use of the awarded Ferric Chloride, per this bid, is contingent upon continued product quality in compliance with the minimum specification requirements outlined here. If for any reason the quality of this product degrades, the Authority reserves the right to cancel this contract. The Ferric Chloride supplier will receive at least two weeks notification prior to contract cancellation; and the Authority will give the supplier the opportunity to correct the problem during this time frame.

PAYMENT

The supplier shall furnish a certified analysis of each delivery.

Weight Percent FeCl₃

Specific gravity

Percent weight of FeCl₂.

Percent total iron

Free Acid as HCL

The invoice price shall be based on the actual amount of Ferric Chloride delivered on \$/ton basis, and the awarded bid price.

$(\text{Net Wt. of tanker (Railcar)} \times \% \text{FeCl}_3) / (\text{AWWA Equivalent}) / 2000 = \text{Tons of Ferric Chloride}$

To expedite payment to the supplier all invoices are to be sent to:

Albuquerque Bernalillo County Water Utility Authority

Water Utility Division

Attention: Ms. Terry Anderson

P.O. Box 1293

Building J, Pino Yards

Albuquerque, NM 87103

Phone: (505) 857-8282

Fax: (505) 857-826