

CITY OF JACKSON



Chemicals for the Water and Wastewater Treatment Plants

Bid Responses Due: 9:00 AM, Wednesday, May 29, 2019

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CITY OF JACKSON, MICHIGAN
161 W. Michigan Avenue
Jackson, Michigan 49201

April 20, 2017

INVITATION TO BID

Sealed bids for Chemicals for the Water and Wastewater Treatment Plants will be received by the City Purchasing Agent until 9:00 AM, Wednesday, May 29, 2019. Bidders may obtain packets containing Instructions to Bidders, Proposal Forms, Detailed Specifications and Contract Forms at the Purchasing Department, 161 W. Michigan Avenue, Jackson, Michigan 49201, Telephone (517) 788-4020 or documents may be downloaded from the city's website at <http://www.cityofjackson.org/rfq>. Questions can be directed to sallard@cityofjackson.org.

The City of Jackson does not discriminate on the basis of religion, race, color, national origin, age, sex, height, weight, handicapped, or marital status as to: access, availability, employment, or participation in any of its programs and activities.

City of Jackson

By

Phil Hones
Purchasing Agent

PH/sa

INSTRUCTIONS TO BIDDERS

1. **PREPARATION AND SUBMISSION OF BID DOCUMENTS:** Execute the bid documents fully and properly and submit same in a sealed envelope marked *Chemicals for Water and Wastewater Treatment Plants* prior to 9:00 AM, Wednesday, May 29, 2019, which is the time designated for the public opening and reading of bids.
2. **EQUAL EMPLOYMENT OPPORTUNITY:** All bidders shall complete the Equal Employment Opportunity Certification, Certification of Nonsegregated Facilities, and Non-Collusion Affidavit, found in Section P of the Proposal Forms.
3. **AWARD OF CONTRACT:**
 - (a) If the contract is over \$50,000, then the City Council will be advised of the terms of all bids received and a recommendation will be made to the Council as to award of a contract to a bidder. The award if any will be made based upon the City Council's determination of the lowest responsible bid; and
 - (b) The City Council has the authority to reject any and all bids, to waive minor irregularities and/or technicalities in the bids, and to accept or recommend the acceptance of other than the lowest responsive bid when the public interest is served thereby and such action is in the best interest of the City.
4. **CONTRACT:** Upon an affirmative vote of the City Council these bid documents shall constitute a contract between the City and the bidder to whom the contract is awarded, provided, however, that the contract shall not be deemed to be in force until an executed note of acceptance of the bidders proposal showing the date of City Council acceptance is mailed to the successful bidder.
5. **LIABILITY FOR TAXES:** Where the terms of this contract involve the lease of personal property to the City it is understood that the lessor shall be solely responsible for the payment of all taxes of any nature whatsoever that accrue upon the property during the term of the lease.
6. **DEFAULT TO THE CITY:** No bidder who is in default to the City shall be awarded a contract with the City.
7. **CONFLICTING TERMS:** If terms and conditions, if any, of seller (contractor) are inconsistent or conflict with the terms and conditions, instructions to bidders, specifications, or proposal sheet, or any other bid documents of the City of Jackson, the City's bid documents shall prevail.
8. **TIME PERIOD:** Bids may be withdrawn up to the time for opening announced in the item 1 of the Instructions To Bidders. Bids shall remain in effect for 90 days after the opening.
9. **DISCOVERY OF ERROR:** Upon the discovery of an obvious error in a bid document that could result in a change in the amount of a bid, the staff of the Purchasing Department shall contact the bidder in writing and advise the bidder that it has seven working days from the date of the letter to correct the error. This correction shall be in writing directed to the Purchasing Agent and shall be postmarked not later than seven working days from the date of the letter referred to in the first sentence of this paragraph.

If no correction is received in a timely fashion, then the Purchasing Agent shall reject the bid. If a correction is received and the Purchasing Department deems same to be appropriate and proper in every way, the Purchasing staff shall attach same to the original bid document and shall then proceed to tabulate the bids as corrected.

NON-DISCRIMINATION CLAUSE FOR ALL CITY OF JACKSON CONTRACTS

In connection with the performance of this contract, the contractor agrees as follows:

1. The contractor will not discriminate against any employee/employer for employment because of race, religion, color, national origin, age, sex, height, weight, marital status or handicap. The contractor will take affirmative action to ensure that minority applicants are employed, and that employees are treated during employment without regard to their race, religion, color, national origin, age, sex, height, weight, marital status or handicap. Such action shall include, but not be limited to, the following: layoff or termination, rates of pay or other forms of compensation, selection for training, upgrading or promotion, transfer or recruitment.
2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, age, sex, height, weight, marital status or handicap. As a disclaimer, the contractor may state in the advertisement that he/she is an equal opportunity employer.
3. The contractor will furnish and file compliance reports with the City of Jackson as requested. Such reports shall elicit information as to the practices, policies, program and employment statistics for the contractor and said contractor shall permit access to all books, records and accounts regarding employment practices by agents and representatives of the City duly charged with investigative duties to assure compliance with this clause.
4. Breach of the covenants herein may be regarded as a material breach of the contract, or purchasing agreement.
5. The contractor will include, or incorporate by reference, the provisions of paragraphs (1) through (4) in every subcontract or purchase order unless exempted by the rules, regulations or orders of the Michigan Civil Rights Commission and will provide in every subcontract or purchase order that said provisions will be binding upon each subcontractor or seller.

CONTRACT COMPLIANCE

All bidders shall complete the Equal Employment Opportunity Certification, Certification of Nonsegregated Facilities, and Non-Collusion Affidavit, found in Section P of the Proposal Forms.

Company Name _____

BIDDERS: See Instructions to Bidders attached.

City Department: Water & WWTP

Opening Date: 9:00 AM, Wednesday, May 29, 2019

Subject: Chemicals

RETURN TO: Purchasing Department
10th Floor, City Hall
161 West Michigan Avenue
Jackson, Michigan 49201

MARK ENVELOPE: **Chemicals**

Proposal: We propose to furnish all materials, equipment or tools required in accordance with the specifications and conditions contained herein in consideration of the sum or sums stated below and agree that this document and its attachments will constitute the contract if accepted by the City.

CHLORINE Estimated Annual Usage 60 Tons	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/TON
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			
LIQUID CAUSTIC SODA Estimated Annual Usage 130 Tons	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/TON
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			
SODA ASH Usage 200 Tons	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/TON
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			

Company Name _____

PHOSPHATE Estimated Annual Usage 404 CWT	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/CWT
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			
CALCIUM HYPOCHLORITE TABLETS Estimated Annual Usage 30 55 lb. pails	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/PER PAIL
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			
FERROUS CHLORIDE Estimated Annual Usage 250,000 Gallons	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/GA.
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			
SULPHUR DIOXIDE Estimated Annual Usage 18,000 Pounds	PRICE TO REMAIN IN EFFECT FOR	BASE BID MATERIAL	FREIGHT	TOTAL/LB.
	90 CALENDAR DAYS			
	180 CALENDAR DAYS			
	365 CALENDAR DAYS			

All freight or delivery charges must be included in bid.

I hereby state that all of the information I have provided is true, accurate, and complete and that I agree to be bound by the terms and conditions. I hereby state that I have the authority to submit this

Company Name _____

bid which will become a binding contract if accepted by the City of Jackson. I hereby state that I have not communicated with nor otherwise colluded with any other bidder, nor have I made any agreement with nor offered/accepted anything of value to/from an official or employee of the City of Jackson that would tend to destroy or hinder free competition.

I hereby state that I have read, understand and agree to be bound by all terms of this bid document.

DATE: _____

SIGNED: _____

NAME (TYPED): _____

TITLE: _____

PHONE: _____

EMAIL: _____

FIRM NAME: _____

ADDRESS: _____

CITY,STATE, ZIP: _____

Company Name _____

CONTRACT COMPLIANCE

DATE: April 20, 2017
TO: All Bidders
FROM: City of Jackson
SUBJECT: CONTRACT COMPLIANCE

The Commission of the City of Jackson, on 12/19/72, passed a resolution committing the City to a policy and procedure regarding compliance to affirmative hiring practices by contracting agencies doing business with the City of Jackson, effective 12/20/72.

The purpose of the policy and procedure is to ensure that all citizens of our community have the opportunity for the equality of treatment in service and employment.

The City requests that all bidders who will be doing business with the City in the amount of \$5,000 or more during any fiscal year, shall comply with the provisions of the Contract Compliance Policy.

Bidders will be required to show an Equal Employment Opportunity Certificate of Compliance or demonstrate compliance with standards for equal employment opportunity established by state and federal statute.

City Council of Jackson, Michigan

CONTRACT COMPLIANCE

CERTIFICATION

_____ certifies that he/she/it will not discriminate against any employee or applicant for employment with respect to hire, tenure, term, conditions, or privileges or employment because race, religion or national origin, color, age, sex, height, weight, marital status, sexual orientation, gender identity, and physical or mental handicap.

In connection with this commitment _____ understands that he/she/it name will be reviewed by the State of Michigan, Department of Civil Rights for determination of its status as an awardable Bidder.

The undersigned hereby agrees that he/she/it will abide by the terms of any agreements made with the City of Jackson in order to achieve awardable status.

Dated: _____ By: _____
(Company)

By: _____
(Title)

Address

City

State

NON-DISCRIMINATION CLAUSE FOR ALL CITY OF JACKSON CONTRACTS

In connection with the performance of this contract, the contractor agrees as follows:

1. The contractor will not discriminate against any employee/employer for employment because of race, religion or national origin, color, age, sex, height, weight, marital status, sexual orientation, gender identity, and physical or mental handicap. The contractor will take affirmative action to ensure that minority applicants are employed, and that employees are treated during employment without regard to their race, religion, color, national origin, age, sex, height, weight, marital status or handicap. Such action shall include, but not be limited to, the following: layoff or termination, rates of pay or other forms of compensation, selection for training, upgrading or promotion, transfer or recruitment.
2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, age, sex, height, weight, marital status or handicap. As a disclaimer, the contractor may state in the advertisement that he/she is an equal opportunity employer.
3. The contractor will furnish and file compliance reports with the City of Jackson as requested. Such reports shall elicit information as to the practices, policies, program and employment statistics for the contractor and said contractor shall permit access to all books, records and accounts regarding employment practices by agents and representatives of the City duly charged with investigative duties to assure compliance with this clause.
4. Breach of the covenants herein may be regarded as a material breach of the contract, or purchasing agreement.
5. The contractor will include, or incorporate by reference, the provisions of paragraphs (1) through (4) in every subcontract or purchase order unless exempted by the rules, regulations or orders of the Michigan Civil Rights Commission and will provide in every subcontract or purchase order that said provisions will be binding upon each subcontractor or seller.

EQUAL EMPLOYMENT OPPORTUNITY CERTIFICATION

The undersigned understands and agrees that, as a Contractor for services, there shall be no discrimination against any employee or applicant for employment because of race, religion or national origin, color, age, sex, height, weight, marital status, sexual orientation, gender identity, and physical or mental handicap, including but not limited to employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation and selection for training.

The Contractor further agrees to the following:

- (a) It will assist and actively cooperate with the City in obtaining compliance of any subcontractors with the equal opportunity rules, regulations, and relevant orders.
- (2) It will furnish the City such information as might be required for the supervision of its compliance program, and will otherwise assist the City in the discharge of its responsibility for ensuring compliance.
- (3) In the event that the Contractor fails or refuses to comply with the equal opportunity regulations, the City may cause to be canceled, terminated, or suspended in whole or in part the contractual arrangement between the City and the Contractor.

NAME OF BIDDER: _____

ADDRESS: _____

SIGNED BY: _____

TITLE: _____

DATE: _____

CERTIFICATION OF NONSEGREGATED FACILITIES

The bidder certifies that he does not maintain or provide for his employees any segregated facilities and do not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location under his control where segregated facilities are maintained. The bidder agrees that a breach of this certification will be a violation of the Equal Opportunity clause in any contract resulting from acceptance of this bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The bidder agrees that (except where he has obtained identical certification from proposed subcontractors for specific time periods) he will obtain identical certification from proposed subcontractors prior to the award of subcontracts exceeding \$10,000 which are not exempt from the provisions of the Equal Opportunity clause, and that he will retain such certifications in his files.

Dated: _____

By: _____
(Name of Bidder)

By: _____
(Title)

Address

City

State

NON-COLLUSION AFFIDAVIT OF PRIME BIDDER
--

STATE OF _____)

ss

COUNTY OF _____)

_____, being first duly sworn, deposed and says that:

1. He is _____ of, _____ the Bidder that has submitted the attached bid;
2. He is fully informed respecting the preparation and contents of the attached bid and of all pertinent circumstances respected such bid;
3. Such bid is genuine and is not a collusive or sham bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham bid in connection with the contract for which the attached bid has been submitted or to refrain from bidding in connection with such contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached bid or of any other Bidder, or to fix any overhead, profit or cost element of the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of Jackson or any person interested in the proposed contract; and
5. The price or prices quoted in the attached bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Dated: _____

By: _____
(Company)

By: _____
(Title)

Subscribed and sworn to before me, a Notary Public, this _____ day of _____, 20_____.

Notary Public, _____ County,
My commission expires: _____

**RIGHT TO KNOW
CONTRACTOR RELEASE FORM**

I, _____ an authorized representative of _____ am aware that as a requirement to perform work for the City of Jackson on a contractual basis, I must have provided my employees with the basic training requirements of the HAZARD COMMUNICATION STANDARD as prescribed by the Michigan Right to Know amendments to Act 154 of the Public Acts of 1974 (Act 80, Public Acts 1986), prior to starting any work for the City. While engaged in working for the City, I will continue to comply with Michigan Right to Know Law until completion of the contract.

I am aware that if I bring any hazardous chemical to the City's work place, I must have available the MSDS for these chemicals, in a place accessible to all employees in the work place. If necessary, due to the "special protection information" requirement stated on the MSDS for the chemicals, I will provide all employees with any special training, special protective clothing or equipment necessary to eliminate or lessen the possible exposure to the hazardous chemical or chemicals.

By execution of this Release, the contractor acknowledges that he and all subcontractors and suppliers, will comply with all requirements of the HAZARD COMMUNICATION STANDARD. Further, the contractor shall hold harmless from and indemnify the City against all claims, suits, actions, costs, counsel fees, expenses, damages, judgements or decrees, by reason of his failure, or the failure of any subcontractor, suppliers, or any person employed under said contractor to comply with the requirements of Act 154 of the Public Acts of 1974 as amended.

Dated _____

Signature

Company Name _____



City of Jackson

Ethics Disclosure Form

Vendors and Contractors

Name	Company
Telephone	Email Address

Contract or matter pending with the City:

I, _____, being duly sworn, and pursuant to City of Jackson Ordinance No. 2015-18, I hereby disclose and swear to the following (check all that apply and provide details below):

- I, or my company's owners, members, major shareholders, or corporate officers, have a financial interest in a contract or matter pending before Jackson City Council.
- A relative¹ or immediate family member² of myself or my company's owners, members, major shareholders, or corporate officers has a financial interest in a contract or matter pending before a City office, department, board, or commission.
- I, or my company's owners, members, major shareholders, or corporate officers, have an interest in real or personal property that is subject to a decision by the City regarding the purchase, sale, lease, zoning, property improvements, NOORPR or FVA registration, a development agreement, or a special tax designation or abatement.

Property address: _____

Property interest: _____

- An immediate family member or relative of myself or my company's owners, members, major shareholders, or corporate officers, has a financial interest in real or personal property that is subject to a decision by the City regarding the purchase, sale, lease, zoning, property improvements, NOORPR or FVA registration, a development agreement, or a special tax designation or abatement.

¹ Relative means any spouse, domestic partner, great grandparents, step great grandparents, grandparents, step grandparents, sons, stepsons, daughters, step daughters, grandsons, step grandsons, granddaughters, step granddaughters, brothers, step brothers, sisters, step sisters, and in-laws of a Public Employee, the Mayor, an Elected Official, an Appointed Official, a member of a Board or Commission, a Contractor, or an Advisor of the City.

² Immediate family member means a Public Employee, the Mayor, an Elected Official, an Appointed Official, a member of a Board or Commission, a Contractor, or an Advisor's spouse, domestic partner, individual who lives in the Public Employee's household or an individual claimed by a Public Employee or a Public Employee's spouse as a dependent under the United States Internal Revenue Code at 26 USC 1, et seq.

Company Name _____

Property address: _____

Property interest: _____

An immediate family member or relative of myself or my company's owners, members, major shareholders, or corporate officers, is employed by the City or making an application for employment to the City.

Relative name: _____

City Department: _____

I, or my company's owners, members, major shareholders, or corporate officers, have made campaign contributions in the last year to a candidate running for elective office with the City.

Name of Candidate: _____

Amount of Campaign Contribution: _____

The following entities and persons have a financial interest in the contract or matter identified above:

Additional information regarding any of the above:

None of the above apply.

Dated: _____

Signature

STATE OF MICHIGAN)

) SS

COUNTY OF JACKSON)

The foregoing instrument was acknowledged before me this _____ day of _____, 20____,

By _____.

Company Name _____

**CITY OF JACKSON, MICHIGAN
WATER & WASTEWATER TREATMENT PLANTS**

GENERAL: All chemical deliveries at the Water Treatment Plant shall only be accepted during the hours **7:00 A.M. to 2:00 P.M.** Monday through Friday and at the Wastewater Treatment Plant during the hours **7:30 A.M. to 3:30 P.M.** Monday through Friday. No deliveries will be accepted on city holidays. **City holidays may differ from actual holidays.**

The City of Jackson reserves the right to accept any or reject any bid or pricing at its sole discretion.

CITY HOLIDAYS: Thursday, July 4, 2019, Independence Day
Monday, September 2, 2019, Labor Day
Monday, November 11, 2019, Veterans' Day (observed)
Thursday, November 28, 2019, Thanksgiving Day
Friday, November 29, 2019, Day after Thanksgiving
Tuesday, December 24, 2019, Christmas Eve
Wednesday, December 25, 2019, Christmas Day
Wednesday, January 1, 2020, New Year's Day
Monday, January 20, 2020, Martin Luther King Day
Monday, February 17, 2020, Presidents Day
Friday, April 10, 2020, Good Friday
Monday, May 25, 2020, Memorial Day

An affidavit shall be provided by either the manufacturer or vendor on the following list of chemicals, stating that all chemicals supplied must have received prior approval from the Michigan Department of Public Health in compliance with Part 21 of the Administrative Rules of Act 399 of the Public Acts of 1976:

Chlorine
Liquid Caustic Soda
Soda Ash
Phosphate
Calcium Hypochlorite

All chemicals to be used for water treatment must be NSF certified for that purpose.

FREIGHT: All prices bid shall include freight to and unloading at the sites listed below. This bid price includes all demurrage fees, unloading and addition fees for deliveries beyond the 1½-hour delivery time in the bid. The supplier is responsible for all shipping charges, safe delivery and unloading of the product.

DELIVERY: The following list of chemicals shall be delivered to the Water Treatment Plant, 740 East Mansion St., Jackson, MI 49203:

Chlorine
Liquid Caustic Soda
Soda Ash
Phosphate
Calcium Hypochlorite

The following list of chemicals shall be delivered to the Wastewater Treatment Plant, 2995 Lansing Ave., Jackson, MI 49202:

Ferrous Chloride
Sulfur Dioxide

SECURITY: Security shall be included, but not limited to the following:

- A. Contractor shall certify that employees assigned to work on City of Jackson property have successfully completed a background check as a condition of employment with their current employer.
- B. Contractor shall provide the names and positions/task assigned of the employee required to work on City of Jackson property. Contractor shall also ensure that each employee be provided with and carry a photo identification card. Subcontractors shall comply with the same and report to the prime contractor.
- C. Contractor shall notify the City of Jackson in advance of any new company and/or contractor employees not originally identified in accordance with paragraphs one and two (1 and 2) above prior to gaining entry to water treatment property.
- D. Contract personnel will be required to identify themselves at one of the two security gates prior to entering.
- E. Water personnel prior to entering shall meet chemical haulers at the entrance gate. Product to be delivered and the authorized driver shall be validated.

CHLORINE (Cl₂) AWWA B301 latest edition

Type: Liquid Chlorine

Delivery: Deliveries to the Water Treatment Plant, 740 E. Mansion St. shall be by truck in 1-ton containers with approximately 4 tons per delivery.

Estimated Annual Use: 60 Tons for water treatment plant

LIQUID CAUSTIC SODA (NaOH) AWWA B501 latest edition

Type: Liquid caustic soda containing approximately 50% sodium hydroxide.

Delivery: Delivery shall be by self-unloading bulk truck in loads of maximum size meeting load limit restrictions. Water Treatment Plant facilities include two 44,500-gallon steel lined ventilated concrete tanks with 2-inch fill lines. All invoicing to Water Department shall be per dry ton.

Estimated Annual Use: 130 Tons for water treatment plant

SODA ASH (Na₂CO₃)

Type: Dense with apparent density of between 56.2 – 68.7 lbs/cu ft

Delivery: Delivery shall be by pneumatic self-unloading bulk truck in loads of maximum size meeting load limit restrictions. Water Treatment Plant facilities include a 4 inch tube to a 110 ton storage bin with dust collector.

Estimated Annual Use: 200 tons

PHOSPHATE (NaPO₃O₆) AWWA B502 latest edition

Type: Unadjusted Sodium Hexametaphosphate.

Form: Glass plate

Delivery: Material shall be shipped by truck in 50 lb. multi-wall paper bags on pallets with maximum pallet load of 2,100 lbs. Maximum load per delivery shall be 24,000 lbs. Pallets shall be open on the bottom (and no boards on bottom pallets) with 3 1/2" clearance so a hand operated pallet truck can be used, or Water Department furnished pallets shall be used.

Estimated Annual Use: 404 CWT

CALCIUM HYPOCHLORITE TABLETS

3" calcium hypochlorite tablets for PPG feeder. Must come in 55 lb. buckets and cannot be lower than 65% purity.

Estimated Annual Use: 30 (thirty) 55-lb pails

FERROUS CHLORIDE (FeCl₂)

Type: Liquid ferrous chloride in a concentration of not less than 9% by weight iron. The bidder agrees that the material will be filtered or if not filtered, able to pass through a 200-micron filter. The material supplied shall be suitable for outdoor storage, which will be subject to seasonal temperature changes. The bidder agrees that the material supplied shall contain no appreciable amounts of oil, grease, or any other toxic or corrosive contaminants that will cause problems with the application or operation of the city's wastewater treatment plant. The maximum concentrations of allowable metals other than iron will be as follows: chromium 70 mg/l, nickel 50 mg/l, zinc 50 mg/l, cadmium 1.0 mg/l, lead 70 mg/l, and mercury .02mg/l. The vendor shall provide a sample of the material delivered for each load, if requested by the city.

Delivery: Delivery shall be made in self-unloading tank trucks in loads of 4,000 gallons or greater on a weekly basis. Plant facilities include three 8,000 gallon storage tanks with 4 inch flanged connectors. Supplier will require individual who delivers each load to attend to equipment while transfer is taking place to assure minimum spillage in containment area and to observe that no overflows of tanks occur. When necessary to cancel deliveries, the city will attempt to give the supplier at least 2 days notice before regular scheduled delivery.

Estimated Annual Use: 250,000 gallons

Rejection or Price Adjustment: The vendor agrees if the material does not meet the specifications, the city has the right to reject the material or renegotiate a cost adjustment for the material delivered.

SULPHUR DIOXIDE (SO₂)

Type: Liquid sulfur dioxide in a concentration of not less than 99.9% sulfur dioxide. The vendor agrees that the maximum impurities will be moisture 80 PPM, residue 40 PPM, sulfuric acid 20 PPM.

Delivery: Delivery shall be made in 150 lb. cylinders on an as needed basis. Normal delivery of 3 cylinders with a maximum of 6 cylinders. The city will attempt to give the supplier at least 3 days notice before expecting delivery of the sulfur dioxide.

Estimated Annual Use: 18,000 lbs.

Rejection: The vendor agrees if material delivered does not meet the specifications or if the gas cylinders appear to be in poor condition, the city has the right to reject the material plus waive the trucking charge as well.