Specifications for the Purchase of Hydrated Lime for Wastewater Treatment
Bid Request No. 27-0009

1.0 Intent

It is the intent of these specifications to provide for the purchase of water reclamation chemicals for the Sioux Falls Public Works Water Reclamation Division.

2.0 Delivery

Awarded bidder shall include in the bid price delivery of all items to the Sioux Falls Water Reclamation Plant, 4500 North Sycamore Avenue, Sioux Falls, SD 57104.

3.0 Single Bid Response

If only one bid is received in response to the invitation for bids, a detailed cost proposal may be requested of the single Offeror. A cost/price analysis and evaluation and/or audit may be performed of the cost proposal in order to determine if the price is fair and reasonable.

4.0 Interpretations

In order to be fair to all bidders, no oral interpretations will be given to any bidder as to the meaning of the specification documents or any part thereof. All requests for interpretation shall be made in writing to the City Purchasing Division. Based upon such inquiry, the City may choose to issue an addendum. All addendums must be acknowledged or your bid may be rendered incomplete.

Technical Specifications
Hydrated Lime

Unit: Ton **Estimated Quantities: 1025 Tons (based on 3-year average)**

Hydrated lime, bulk, high calcium for use in treating the municipal wastewater of Sioux Falls, SD.

Chemical and Physical Properties

1. The hydrated lime furnished under these specifications shall be high calcium, white, finely powdered, and free from lumps or any foreign material that might interfere with the operation of dry-feed and slurry mixing tank equipment. Uniformity of particle size is desirable, heavy sands and pebbles in the lime are not acceptable.

2. The hydrated lime furnished under these specifications shall meet the latest revision of AWWA Standard B202, Standard for Quicklime and Hydrated Lime.

3. Bidder shall state in their bid the name, brand, and location of the manufacturer's operation from where the proposed hydrated lime will be shipped.

4. A clean, legible copy of the most up-to-date SDS sheet shall be supplied with each bid.

5. The hydrated lime shall be suitable for pneumatic, screw conveyor, and bucket elevator unloading systems.

6. Hydrated lime furnished shall contain no mineral or organic substances in amounts capable of producing injurious or deleterious effects upon the health of those consuming water with which it is treated.

Quantities and Method of Delivery

1. The unit price quoted shall be the full delivered cost to the City for product, testing, freight, unloading, and incidental costs.

2. The lime shall be ordered as needed and delivered in bulk. This may include trucks or trailers equipped for transfer using the existing conveyor system at the Water Reclamation Plant.

3. Trucks or trailers shall be delivered within five calendar days from the date of order.

4. The supplier shall maintain adequate inventory and transportation to ensure uninterrupted product availability throughout the contract period.

5. Supplier shall notify the City immediately of any delivery delays and provide an estimated delivery date and corrective action plan.

6. The lime shall be delivered in cargo trailers dedicated only to transporting lime, or if the cargo trailer has been previously used for another material, cargo trailer shall be properly cleaned so there will be no contamination of the lime.

7. Truck carriers shall be responsible for cleanup of unloading area in the event of spillage.

8. Special care shall be exercised to close all openings in the trucks or trailers by which lime might sift out and to prevent admission of moisture.

9. Deliveries to the Water Reclamation Plant located at 4500 North Sycamore Avenue shall be delivered by truck with pneumatic unloading capability.

10. The supplier will be held responsible for equipment repair costs (parts and labor) due to debris shipped with the lime that causes equipment failure to the City's equipment.

Use by Others

The product supplied shall have been successfully used by a minimum of three (3) public water or wastewater treatment utilities. A minimum of one (1) wastewater treatment facility shall be provided. The bidder shall provide the name of each utility, contact person, telephone number, and approximate length of time the product has been supplied or used.

The City reserves the right to contact these references to verify product performance, reliability, and suitability for municipal treatment applications.

Chemical Delivery Security

Tractor and Trailers

1. Upon successfully being awarded the contract, the supplier will provide the Sioux Falls Water Reclamation staff with the following information. The information must be recorded and emailed to the City of Sioux Falls, Water Reclamation Plant at least 24 hours prior to any truck arriving for unloading:

    - The name of the delivery truck driver.
    - The tractor and trailer number.
    - The date and time the delivery will arrive.
    - The signature of the approved agent of the vendor.
    - The bill of lading number.
    - A certified scale weight ticket that includes the tare, gross, and net weights of the cargo trailer making the delivery, which is signed by the weighmaster, must accompany each delivery. Deliveries not accompanied by a certified and signed scale ticket are subject to rejection.
    - A Certificate of Analysis shall accompany each delivery that identifies, at a minimum, the following:
        - Manufacturer
        - Product name and grade
        - Production lot or batch number
        - Available calcium oxide percentage
        - Date of manufacture or testing
        - Applicable test results

2. Upon arrival at the Water Reclamation Plant and prior to unloading, a staff member of the Water Reclamation Plant will verify the above information from the truck with the sent information. The truck will not be unloaded until the email has been received with the proper information and verified.

3. The staff will notify 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 loads being refused.

4. The City will not pay for any damages incurred by refusing a shipment due to suspected contamination.

Note: The City will accept email notification of security information. It will be the responsibility of the supplier awarded the contract to notify proper City staff that they wish to set up an email tree notification.

Product Sampling and Testing

The City reserves the right to collect representative samples of any delivered hydrated lime shipment for inspection and laboratory testing.

Samples may be collected from the delivery vehicle or during the unloading process. Testing may include available calcium oxide content, moisture, physical characteristics, and other applicable chemical or physical properties.

If testing determines that the delivered product does not meet the requirements of these specifications, the City reserves the right to reject the shipment.

The supplier shall be responsible for all costs associated with the removal and replacement of rejected product, including transportation, unloading, disposal, and any additional expenses incurred by the City as a result of the nonconforming delivery.

The City's acceptance of a shipment shall not relieve the supplier of responsibility for latent defects or product deficiencies subsequently identified.

Rejection of Product

The delivered product may be rejected because of, but not limited to, the following reasons:

- The supplier did not provide an email with the required information listed above prior to the truck arriving at the facility.
- The truck or trailer has no identification numbers or the numbers do not match the information provided to the City.
- The delivery truck driver does not have proper identification or is different from what was provided the City.
- The hydrated lime contains less than 62 percent available calcium oxide.

The City will not pay for any damages incurred by refusing a shipment due to suspected contamination.

The following <u>must</u> accompany your offer:

1. The bidder will supply the cost per ton of lime and this final cost will cover all shipping costs and gas surcharges.
2. Supplier-published product bulletin.

3. Name, brand, and location of manufacturer's operation from where the proposed product will be shipped.

4. List of three public utilities successfully using this product including phone numbers and name of contact person.

	Utility	Phone	Contact Person
a.	_____	_____	_____
b.	_____	_____	_____
c.	_____	_____	_____

5. Clean, legible copy of the most recent SDS sheet(s).

Award

This contract will be awarded to the bidder with the lowest quote based on dollars per ton of delivered product that meets all bid specifications.

Cause for Cancellation of the Contract

The City may cancel this contract upon 30 days' written notice to the supplier. Grounds for cancellation include but are not limited to:

1. Failure of any product to meet any one of the requirements listed under the chemical specifications.

2. Failure to make timely delivery of materials.

3. Delivery of hydrated lime that requires excessive maintenance to allow proper operation of the lime slaking feed system after following all recommendations from the manufacturer.

4. The supplier fails to comply with all required delivery security procedures.

5. Failure to correct deficiencies associated with product quality or delivery performance or any other contractual obligations.

Fuel Cost Adjustments—Compensation adjustments for the costs of motor fuels will be determined by the City in accordance with the following provisions:

For Lime Deliveries:

For method of delivery by truck only, the City will base the price change on a monthly average to the nearest thousandth of a dollar ($0.001) using DOT Maintenance Materials rounding procedures of the "Monthly Retail On-Highway Diesel Prices" for "Ultra Low Sulfur" using Midwest prices as reported in the Energy Information Administration (EIA) of the U.S.

Department of Energy weekly publication or website:
https://www.eia.gov/petroleum/gasdiesel/.

The amended contract price will be reviewed monthly during the last week of the month by the City of Sioux Falls Purchasing Division; therefore, initiating a new contract price effective for deliveries made the following month. The contract price will automatically be amended each month as follows:

Percentage Adjustment Calculation:

The current monthly average fuel price will be compared to the base price of **$5.00/gallon**. The attached spreadsheet will be used to calculate price changes each month.

Example:

Assume the monthly average diesel fuel price is $5.008 per gallon, compared to the established contract base fuel price of $5.00 per gallon.

The increase in fuel cost is $0.008 per gallon ($5.008 - $5.00 = $0.008).

For purposes of this example, assume the total mileage attributable to the delivery is 500 miles. Using an average fuel economy of 6.5 miles per gallon:

500 miles ÷ 6.5 MPG = 76.9 gallons, rounded to 77 gallons.

The average truckload quantity is established at 22 tons.

The estimated base fuel cost per load is $385.00 (77 gallons × $5.000).

The adjusted fuel cost per load is $385.62 (77 gallons × $5.008).

The resulting increase in fuel cost is $0.62 per load.

The increase in cost per ton is calculated as follows:

$0.62 ÷ 22 tons = $0.028 per ton, rounded to $0.03 per ton.

The original contract price for hydrated lime, established at a base fuel price of $5.00 per gallon, is $295.00 per ton.

The adjusted contract price for hydrated lime for the following month will therefore be $295.03 per ton.

The same calculation methodology shall apply when the monthly average diesel fuel price decreases below the established base fuel price, resulting in a corresponding reduction in the contract price per ton.

All calculations shall be performed consistently using the established mileage, fuel economy, and average truckload tonnage assumptions for the awarded supplier. The City shall maintain the monthly fuel adjustment calculations for reference and verification.