



**CITY OF ST. LOUIS
DEPARTMENT OF FINANCE
OFFICE OF THE SUPPLY COMMISSIONER**

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BID ADDENDUM #1

DATE: January 23, 2014
TO: All Prospective Bidders
FROM: Bill Fulkerson
REFERENCE: Bid Proposal for Lime
OPENING DATE: February 11, 2014

Please see the attached pages for revised specifications.

Please include this acknowledgement with your bid package.

If you have any questions please contact me at (314) 622-4250.

ADDENDUM RECEIVED AND ACKNOWLEDGED

Name of Firm

Firm Representative

Signature

Date

ST. LOUIS WATER DIVISION
SPECIFICATION FOR CALCIUM OXIDE (QUICKLIME)
(Revision Jan. 2014)

1. The approximate quantity of lime to be furnished under these specifications is an estimate based on past usage and actual requirements may vary widely with changes in the river water or consumption of finished water.
2. The material delivered under this contract shall be crushed lime (high calcium quicklime). It shall be delivered in bulk trailers of the butler type as ordered by the Water Division. Trucks used for hauling lime shall be dedicated to hauling of high calcium quicklime suitable for potable water treatment. Trucks will have an adequate blower for efficient unloading and shall carry the necessary hose and fittings to unload into a 4" pipe equipped with a Kamlock male coupling for attaching the hose. Pneumatic truck deliveries, which can be unloaded by the driver alone, may be made at any hour of any day. Complete details giving the method of order placement, weighing and sampling shall be furnished before a contract is awarded.
3. The lime supplied under this contract shall be crushed and screened so that on delivery none shall be retained on a five-eighth (5/8) inch screen. The inclusion in any shipment of an excessive amount of over-sized pebbles may be reason for rejection of the entire shipment. The crushed lime shall meet the following physical analysis.

Minus 5/8"	100%
Minus 1/4"	80 – 90%
Minus 8 mesh	74 – 86%
Minus 16 mesh	66 – 75%
Minus 30 mesh	40 – 60%
Minus 40 mesh	30 – 54%
Minus 100 mesh	10 – 34%
Minus 200 mesh	4 – 18%

Density – pounds per cubic foot.....55 to 65.

Lime supplied under this contract shall be so ground as to feed normally without the need for external vibration. The lime slakers at the Howard Bend WTP are not equipped with grit handling systems for the removal of carbonate solids, siliceous residue and unburned limestone. This means that the grit in the lime shall pass through to the Plant's coagulation and sedimentation basins without deleterious effect to the treatment process.

4. The lime supplied under this contract shall be substantially free from unburned limestone, ash, and other foreign matter, and shall contain at the point and time of delivery ninety-two percent (92%) available calcium oxide and provide a forty (40) degree rise centigrade rise in standard slaking test in 180 seconds.

Failure of the lime to produce more than a forty (40) degree centigrade rise upon slaking in accordance with a standard slaking test shall be basis for rejection.

The lime supplied **shall not** have a sulfur content exceeding 0.05%.

The lime supplied under this contract shall contain no mineral or organic substances in quantities capable of producing deleterious or injurious effects upon the health of those consuming the water that has been treated with as per AWWA B-202-13, Section 4.3. Lime shall not contain specific impurities in excess of those specified in the Water Chemicals Codex 1982 for Calcium Oxide.

All lime supplied under this contract shall conform to standards outlined in ANSI/AWWAB202-13 and ANSI/NSF-Standard 60 in accordance with Missouri Department of Natural Resources regulations unless otherwise noted.

5. Upon award of this contract, representatives of the successful bidder, the Supply Commissioner and/or Water Division will meet to determine delivery requirements. Weekly delivery orders for a 7-day period will be communicated by the Water Division seventy-two (72) hours in advance. Additional lead-time for ordering will be considered upon written request from the supplier. The supplier shall insure the Water Division has adequate volumes of lime on hand at all times. Shipments of lime shall begin within ten days after the awarding of this contract.
6. The supplier shall furnish an adequate number of industry-approved security seals to each delivery truck driver for installation on all hatches and opening in the truck trailer. Following the loading of lime at the manufacturing facility, the driver is responsible for sealing all trailer openings. These security seals are to remain intact and unopened until the trailer arrives at the treatment plant where they may be removed and inspected by Water Division personnel.
7. The Water Division will sample each delivery as it is being unloaded and such sample, after proper reduction, will be tested for Calcium Oxide in the Water Division Laboratory. Pre-packaged samples from the driver/supplier are not acceptable. Samples will be taken from each load and the test for Calcium Oxide will be made from a composite sample obtained from approximately each four (4) trucks of lime delivered. Standard sampling and quartering methods will be followed.
8. The method of analysis used in determining the available Calcium Oxide present in the lime shall be that contained in the Standard Specifications of Quicklime and Hydrated Lime of the American Water Works Association, AWWA B-202-13, Section 5.3 – Available Calcium Oxide. The analysis for objectionable insoluble material in lime will be performed in accordance with procedure of American Water Works Associations Specifications B202-13, Section 5.5 – Test for Objectionable Insoluble Matter.
9. The contract price will be paid per ton of lime delivered with a penalty provision for shipments with Calcium Oxide content less than 92%. The Water Division shall retain the option to subtract two percent (2%) from the contract price for each one percent (1%) that the amount Calcium Oxide is less than 92%. The Calcium Oxide will be calculated to the nearest 1%.
10. Bidders shall provide as a part of their bid a list of three potable water suppliers which the bidder currently supplies with lime from the proposed production site. Bidders shall also provide written documentation as to the redundancy of their manufacturing equipment so as to insure an uninterrupted supply of product to the City, in the event of mechanical breakdown or maintenance shutdown.
11. It is understood and agreed that the time and rate of shipment of lime are essential conditions of this contract to be entered into under these specifications, and should the contractor fail, **WHEN NOTIFIED IN WRITING BY THE WATER DIVISION**, provide the quantity of lime ordered each week, the Supply Commissioner shall have the right to purchase at the market price

a sufficient quantity of lime of the specified quality to keep the quantities up to the quantity ordered. The amount paid for such lime, in excess of the contract prices, corrected for Calcium Oxide, shall be deducted from any amounts due to which may become due the contractor.

12. The Water Commissioner shall in all cases determine the amounts and quality of lime delivered under these specifications and shall decide all questions, which may arise, which decision shall be final and conclusive.

The lime shall be weighed on approved scales and the Water Division reserves the right to request the reweighing of any load before acceptance.

13. Payment will be made at the contract price twice a month, with the adjustment at the end of the month for the penalty for the Calcium Oxide content.