

PROCUREMENT DEPARTMENT
Rm 120 Municipal Services Building
Philadelphia, PA 19102-1685
FAX: (215) 686-4716

CITY OF PHILADELPHIA

Hugh Ortman
Procurement Commissioner

July 22, 2009

BID NUMBER: S0XL7410
TITLE: CLEANING OF ANAEROBIC DIGESTORS
DEPARTMENT: WATER DEPARTMENT
DATE TO OPEN: July 23, 2009 at 10:30 AM

ADDENDUM # 1

TO ALL BIDDERS:

You are hereby notified of the following changes to the above mentioned bid:

Subject Bid # S0XL7410 is hereby postponed until further notice.

Please sign, date and return this addendum with your bid to the Procurement Department, 1401 J.F.K Boulevard, Bid Room 170A, Philadelphia, PA 19102-1685 as it now becomes a part of the proposal.

Buyer, A. Campfield

AUTHORIZED SIGNATURE

FIRM NAME (PRINT)

DATE

ACD/mv

PROCUREMENT DEPARTMENT
Rm 120 Municipal Services Building
Philadelphia, PA 19102-1685
FAX: (215) 686-4716

CITY OF PHILADELPHIA

Hugh Ortman
Procurement Commissioner

September 4, 2009

BID NUMBER: S0XL7410
TITLE: CLEANING OF ANAEROBIC DIGESTORS
DEPARTMENT: WATER
DATE TO OPEN: July 23, 2009 at 10:30 AM/PPFN

ADDENDUM # 2

TO ALL BIDDERS:

You are hereby notified of the following changes to the above mentioned bid:

Subject bid is scheduled to open on Tuesday, September 22, 2009 at 10:30 a.m.

Vendor Questions:

Question 1: Section 2.4.3 does not clearly indicate that the area inside the digester is Class 1, Division 1. Under the current contract the Water Department has required the contractor to meet Class 1, Division 1 specifications for pumps and equipment in the actual digester even after the digester has been opened and ventilated. This requirement greatly increases the cost of the performance of the work as currently available electrical Class 1, Division 1 pumps and hydraulic submersible pumps are not suitable for pumping the heavy grit and rags typically found in these digesters. When proper CSE and ventilation procedures are followed, use of Class 1, Division 1 equipment is not necessary when cleaning an opened, ventilated, out-of-service digester. Please clarify which types of equipment are suitable for use in the digester and if Class 1, Division 1 is required.

Answer: PWD considers the area inside the digester tanks Class 1, Division 1. PWD

requires that equipment used to remove material from the tanks meet class 1, Division 1 specifications. Please incorporate this cost into the bid.

Question 2: Section 2.7.2 places no restriction on the use of water from the plant water hydrants. Under the current contract, the Water Department has restricted the flow and required the contractor to monitor this flow in gallons per day used, even though the specifications do not indicate a flow restriction or monitoring requirement. Please clarify if there will be flow restrictions or monitoring requirements.

Answer: PWD will not restrict flushing water from plant water hydrants so long as the water is available. If there is a problem within the system, for example a broken pump or broken pipe, flushing water from the plant hydrants may not be available. If water is not available or available only at a reduced pressure please let the plant know of this condition. The plant does require flow monitoring to determine the volume being recycled from the digester cleaning to the head of the plant.

Question 3: Section 2.7.3 reads in part, "The Access to the interior of the Digester is gained through an access plate on the wall of the digester." In many instances, the City is unable to pump sludge below the access plate on the wall. In these cases, the Contractor has been required to use a crane to place a pump to clean the digester through the roof manholes, even though this is not required by the specifications. Please clarify.

Answer: At the NE plant the sludge level inside the digester prior to cleaning prevents access through the wall access plate at ground level. When this is the case the only access into the digesters is through the access manholes on the roof. **The Contractor will be required to clean the digester through the roof manholes.**

Question 4: Section 2.7.3 reads in part, "If any stud, nut or bolt is damaged or found to be damaged during opening or closing, the same shall be replaced at no additional cost to the City." Many of the studs and bolts on the access plate and manhole covers are damaged prior to the contractor's use. This may require extensive drilling and tapping to repair damage which was pre-existing. Please clarify if the contractor is only responsible for damage caused by the contractor and if pre-existing damage can be addressed in a change order.

Answer: The Contractor is not responsible for pre-existing damage to access plates and manhole covers. The Contractor is only responsible for damage caused by the Contractor. The City is only looking for the vendor to pump out sludge, not address any pre-existing damage.

Question 5: Section 2.8.2 reads in part, “The Contractor and the plant management shall mutually determine the elevation of the sludge and other material in the tank to be cleaned.” Please indicate if the valves on the lines to each digester are equipped so that the Contractor and the City can install Lock Out Tag Out devices as required by CSE procedures to prevent additional flow into the digesters during cleaning.

Answer: The Contractor and City shall install lock out, tag out devices prior to cleaning a digester so that the digester remains isolated during cleaning.

Bid Revisions:

Delete Section 2.1.2, Site Conditions, in its entirety.

Replace with:

2.1.2 Site Conditions

Each digester tank will contain varying amounts of sludge. The City estimates that any of the tanks can contain between 100,000 to 2,000,000 gallons of sludge and other material that will have to be removed. The Contractor shall pump the contents of the tank to a location designated by the Plant Manager. The transfer and storage tanks are similar in size and shape to the digesters and are expected to contain similar amounts and types of material as contained in the digesters. The successful bidder shall obtain the permission of the plant Manager prior to barricading the road during the progress of the work. The Contractor must take into account that the Plant may have special needs that will not allow the use of the plant drain system. In such cases, the Contractor must supply all additional hose, equipment labor and fuel to pump the material to the location designated by the Engineer at no additional cost. Appropriate reference drawings are available for inspection from the Plant Engineer. All dimensions shown on the reference drawings are approximate. The contractor is responsible for verifying all existing conditions in the field.

Delete Section 2.2.4 in its entirety.

Replace with:

2.2.4 The Contractor shall, as part of his contract price, completely remove the access plate in the side of the digester or tank when the sludge level permits. The Contractor must notify the City prior to removing the side access plate. His contract price shall also include the complete removal of all four manhole covers on the roof of the digester or tank.

For the removal and reinstallation of each of the four manhole covers and the side

access plate, the Contractor is responsible for obtaining all tools or equipment including hand tools, portable hoists, forklifts, lifting straps, other lifting equipment, etc. required to open and close the manholes and side access plates at his cost. During the time that the side access cover and/or the manhole covers are open, the Contractor shall provide sturdy, OSHA-approved barricades and signage at each opening. If the City requires, the Contractor shall reclose all of the manholes at the end of each work day. The manhole to which the Contractor discharges the tank contents shall be barricaded during work and the cover reinstalled at the end of each work day. The side access opening shall continue to be barricaded during times that the Contractor is not working. The Contractor is responsible for reclosing all four of the roof manhole covers and the side access cover. The Contractor shall use new gaskets and new sealing materials when closing the access openings. Sealing materials shall be suitable for the application of sealing digester & tank access covers, shall be of at least the same quality as the existing sealing materials and fully suited for the purpose. The gasket for the side access cover is ½” thick neoprene rubber, durometer=50. The manhole cover gaskets shall be replaced in kind. In both cases, the Contractor shall obtain the approval of the City for the new gasket prior to installation. New bolts, nuts, washers or other hardware, if needed shall be made of type 316 stainless steel. The Contractor shall use anti-seize compound on all threaded fasteners prior to reinstallation. Should any holes need to be retapped or studs rethreaded, the Contractor shall do so at no additional cost. The successful bidder shall ensure, after completion of cleaning of internals of the digester and reinstallation of the roof manhole covers and access plate, that the roof manhole covers are gas tight and side cover is liquid tight. Any leaking seals shall be corrected by the Contractor with all leaks eliminated to the complete satisfaction of the engineer at no additional cost of the City.

Delete the following from Section 2.4.3:

The roofs and the areas inside the buildings associated with the digesters, storage and transfer tanks are classified as Class 1, Division 1, Group D location as per the National Electric Code (“NEC”).

Replace with:

The areas inside of tanks being cleaned as well as the roofs and the areas inside the buildings associated with the digesters, storage and transfer tanks are classified as Class 1 Division 1, Group D location as per the National Electric Code (“NEC”).

Insert the following into Section 2.6.1:

The contractor is to check in with designated plant operations personnel at the beginning and end of each pumping day for purpose of monitoring progress.

Delete Section 2.6.2 in its entirety:

Replace with:

2.6.2 The process of cleaning the tank requires that the Contractor supply a pump with all necessary hoses, couplings, safety barricades, etc. The Contractor is to supply a flow meter on the discharge line of the pump to determine the volume removed from the tank. The Contractor shall also supply the calibration record for the flow meter used to certify that it has been calibrated within 6 months prior the start of pumping. The City has the right to stop completely or order the decrease of the rate of pumping or stop the process of cleaning due to operational difficulties, equipment failure or for any reason whatsoever for any length of time. The Contractor shall obtain prior approval for working more than 8 hours per day, Monday through Friday.

Insert the following into Section 2.6.3:

The City may, at its sole option, shorten or eliminate the test time.

Delete Section 2.7.1 in its entirety.

Replace with:

2.7.1 DIMENSIONS:

Each digester is approximately 110 ft. in diameter, 44 ft. high (including a 5½ ft cone bottom) and has a normal operating depth of 33 feet of liquid. The roof (cover) is fixed approximately 39 ft. above the bottom of the sidewall. Below the digester wall, the floor slopes to a cone 5.5 ft. deep. Access to the interior is made through (4) four 36 inch diameter manholes in the cover, and through a 5 ft. wide y 4 ft. tall access cover in the side. The digester dimensions and elevations of the side access cover above the cone is not the same for all digesters. The storage and transfer tanks are of similar overall size and dimensions compared to the digesters. Actual dimensions of the tanks can be obtained from the plant engineer.

Delete Section 2.7.2 in its entirety.

Replace with:

2.7.2 FLUSHING WATER:

The contractor is allowed to use water from the plant water hydrants. The water is chlorinated, non potable plant effluent. Flushing water is available at each digester and nearby the other tanks from a fire hydrant with Standard PWD Fire Department threads. Additional water may be obtained by pumping from the final tank's effluent, which is non-chlorinated water. This pumping will be the responsibility of the contractor. The Contractor is to supply a flow meter on the discharge line of flushing water into the digester. The Contractor shall also supply the calibration record for the flow meter used to certify that it has been calibrated within 6 months prior the start of pumping. Boosting (if necessary) of water pressure from the hydrants will also be the responsibility of the Contractor.

Delete Section 2.8.2 in its entirety.

Replace with:

2.8.2 The Contractor and the plant management shall mutually determine the elevation of the sludge and other material in the tank to be cleaned and thereby calculate the number of gallons in the tank and sign and date the determination. An average of several measuring locations will be used to determine the elevation since variations can exist throughout the tank based on the consistency of the sludge and other material. The measuring locations will be selected by the City. The Contractor is to supply a unit price for pumping material as described in Section 5. Pricing for manual removal of materials at the **option of the City, not the option of the Contractor** described in paragraph 2.1.1.2 shall also be supplied in Section 5.

Delete the following from Section 5.1:

Quantity: 1,000,000

Replace with:

Quantity: 4,850,000

Delete the following from Section 5.2:

Quantity: 40

Replace with:

Quantity: 120

Please sign, date and return this addendum with your bid to the Procurement Department, 1401 J.F.K Boulevard, Bid Room 170A, Philadelphia, PA 19102-1685 as it now becomes a part of the

proposal.

Buyer, A. Campfield

AUTHORIZED SIGNATURE

FIRM NAME (PRINT)

DATE

AC/mv