

Date: January 11, 2009
To: City Council
Through: Bryan Raines, Deputy City Manager
From: Edward Quedens, Business Services Director
Subject: Purchase of Four (4) Replacement Rapid Mixer Drives with Motors for the Water Resources Department (Sole Source) (Contract #2009199) "Citywide" contract

Purpose and Recommendation

Council is requested to approve the Purchase of Four (4) Replacement Philadelphia™ Rapid Mixer Drives with Motors as recommended. Bid pricing was obtained and evaluated by the Water Resources Department and the Purchasing Division.

The Purchasing Division recommends authorizing purchase from the sole source bidder, Philadelphia Mixing Solutions Ltd. at \$66,887.04, including applicable use tax.

Background/Discussion

This contract will provide four (4) 3850 Series Philadelphia™ Rapid Mixer Drives with Motors and compatible bolt ups for the Brown Road Water Treatment Plant. This plant has 89 mixers in operation throughout different stages of the plant. The four (4) rapid mixers for Basins 3 and 4, that are scheduled to be replaced, have been in operation since 1987. The mixers are a critical piece of equipment used to mix process chemicals and start the coagulation process in the water treatment processes. The designed life expectancy of this equipment is ten (10) years when a major rebuild is required. These units have been in operation for 22 years without a rebuild due to good maintenance practices. A major rebuild would cost between \$15,000 to \$30,000 based upon the extent of the repairs required and the parts replaced. A new unit costs \$16,000 each which enables the existing units to remain in operation without the down-time associated with a major rebuild.

Philadelphia™ Mixers are a sole-source item that is manufactured and only comes from Philadelphia Mixing Solutions exclusive through Arizona supplier Hennesy Mechanical. In addition, staff has chosen to remain with this manufacturer because their products have proven to be very reliable, it is in the best interest for the City and is the most cost effective. The additional known cost to change to another manufacturer is estimated at \$28,000, for changing the shaft and impellers, and does not include the unknown cost to modify existing mounting brackets and supports.

Alternatives

Council may choose not to award this contract and new bids would be obtained.

Fiscal Impact

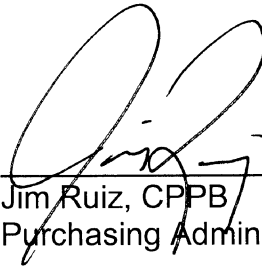
The total amount of \$66,887.04 is available in the Water Resources Department's budget.

Coordinated With

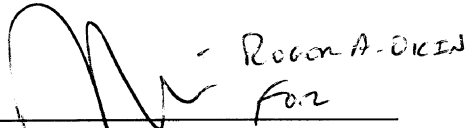
Water Resources Department – Water Utility



Pamela Chavez,
Management Assistant II

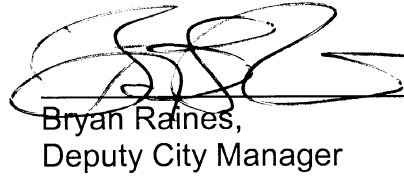


Jim Ruiz, CPPB
Purchasing Administrator



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for

Edward Quedens, CPPO, C.P.M.
Business Services Director



Bryan Raines,
Deputy City Manager

CITY OF MESA
AWARD RECOMMENDATION
PURCHASE OF FOUR (4) REPLACEMENT
PHILADELPHIA™ RAPID MIXER DRIVES WITH MOTORS
(REQUEST FOR BID #2009199)

Philadelphia Mixing Solutions Ltd.
Palmyra, PA

| Description | Pricing |
|---|--|
| Philadelphia™ Rapid Mixer Drives with Motors, 3850 Series, 84 RPM, 20.9:1 ration, service factor 2.0, no seal required, gearbox with a drive support pedestal, 15.0 HP, severe duty, premium efficiency, 1800 RPM, 460VAC, 60Hz, 3 phase with thermostats and rated for 50° Celsius ambient temperature 4 @ \$15,835.00 | Sub-Total \$63,340.00 5.6% Use Tax <u>\$3,547.04</u> Total \$66,887.04 |