



OPERATIONS COMMITTEE

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Agenda Report

File #: 2021-1895

Agenda Date: 10/27/2021

Agenda Item No: 7.

FROM: James D. Herberg, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

SUNFLOWER PUMP REPLACEMENT AT PLANT NO. 1, PROJECT NO. FE19-04

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Sunflower Pump Replacement at Plant No. 1, Project No. FE 19-04;
- B. Award a Construction Contract to GSE Construction Company Inc. for Sunflower Pump Replacement at Plant No. 1, Project No. FE19-04, for a total amount not to exceed \$2,123,200; and
- C. Approve a contingency of \$212,320 (10%).

The Sunflower Pump Station transfers flows into the Headworks from the deepest of the trunk sewers feeding Plant No. 1. The pump station uses two 40-million gallon per day screw pumps to lift flow from the Sunflower Trunk into Plant No. 1. The screws for those pumps are approximately 32 feet long, have a 9-foot diameter, and are driven through a large gearbox to reduce the speed of the 150-horsepower motor down to 28 revolutions per minute. These pumps are subject to erosion of the screws, corrosion from the sewer gas, and wear and tear on bearings submerged in wastewater.

The pump station is in the same area where the \$222 million Headworks Rehabilitation at Plant No. 1, Project No. P1-105, is currently in construction.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive, responsible bidder
- Maintain a proactive asset management program

PROBLEM

Due to age, condition, and recent failures, both Sunflower pumps and pump components at the station are near the end of their useful life. One of two pumps in particular needs immediate

replacement, while the other pump can delay replacement for a few more years.

Replacement of the pumps must occur during the dry season because both pumps are needed during high flow events in the winter. Only one pump can be replaced at a time, and replacement of one pump takes most of the six-month dry season.

PROPOSED SOLUTION

Award a construction contract for Sunflower Pump Replacement at Plant No. 1, Project No. FE19-04. This project will replace one of the two pumps and associated equipment. The second pump will be replaced later because replacing it on this contract would impact Headworks Rehabilitation at Plant No. 1, Project No. P1-105, which will be working in the same area.

TIMING CONCERNS

Awarding this contract now is important to allow the pump replacement to be completed before the 2023-2024 wet season.

RAMIFICATIONS OF NOT TAKING ACTION

One of the pumps could fail during peak wet weather flows, which could result in a spill.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Orange County Sanitation District (OC San) advertised Project No. FE19-04 for bids on May 26, 2021, and eight on-line bids were received on July 15, 2021. A summary of the bid opening follows:

Engineer's Estimate	\$2,700,000
<u>Bidder</u>	<u>Amount of Bid</u>
GSE Construction Company Inc.	\$2,123,200
Tharsos Inc.	\$2,151,000
PCL Construction, Inc.	\$2,306,448
Kiewit Infrastructure West Co.	\$2,365,000
Shimmick Construction Inc.	\$2,559,000
Orion Construction Corporation	\$2,647,000
Mehta Mechanical Company Inc.	\$2,954,000
Abhe & Svoboda Inc.	\$3,241,679

The bids were evaluated in accordance with OC San's policies and procedures. A notice was sent to all bidders on September 8, 2021, informing them of the intent of OC San staff to recommend award of the Construction Contract to GSE Construction Company Inc.

Staff recommends awarding a Construction Contract to the lowest responsive and responsible bidder, GSE Construction Company Inc., for a total amount not to exceed \$2,123,200.

CEQA

The project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. A Notice of Exemption will be filed with the OC Clerk-Recorder after OC San's Board of Directors' approval of the construction contract.

FINANCIAL CONSIDERATIONS

This request complies with the authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget Update, Fiscal Year 2021-2022, Appendix A, Page A-8, Small Construction Projects Program, Project No. M-FE) and the budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Construction Contract
- Presentation

SS:dm:gc