



OPERATIONS COMMITTEE

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Agenda Report

File #: 2023-2781

Agenda Date: 6/5/2024

Agenda Item No: 5.

FROM: Robert Thompson, General Manager
Originator: Mike Dorman, Director of Engineering

SUBJECT:

DIGESTER C, D, F, AND G MECHANICAL REHABILITATION AT PLANT NO. 2, PROJECT NO. FE20-02

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2, Project No. FE20-02;
- B. Award a Construction Contract Agreement to J.F. Shea Construction, Inc. for Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2, Project No. FE20-02, for a total amount not to exceed \$3,694,000; and
- C. Approve a contingency of \$369,400 (10%).

BACKGROUND

The digester system at Orange County Sanitation District's (OC San) Plant No. 2 processes sludge to reduce pathogens and volatile organics and generates methane gas for power and heat. This digester system includes pumps, heat exchangers, and gas piping.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive, responsible bidder
- 24/7/365 treatment plant reliability
- Protect public safety
- Safe, beneficial reuse of Biosolids
- Commitment to safety & reducing risk in all operations

PROBLEM

The existing high rate mixing pumps, heat exchangers, heated sludge recirculation pumps, sludge transfer pumps, hot water pumps, and associated instrumentation for Digesters C, D, F, and G are at

the end of their useful life and require replacement. In addition, the elevated walkways between Digesters C and D, Digesters D and I, and Digesters F and G need structural repairs and the 8-inch PVC gas balance pipes need replacement.

PROPOSED SOLUTION

Award a Construction Contract Agreement for Digester C, D, F, and G Mechanical Rehabilitation at Plant No. 2, Project No. FE20-02. This project will replace the mechanical equipment and associated piping, replace high rate mixing pumps with chopper pumps, and replace the associated electrical and instrumentation equipment. The project will also replace the existing PVC gas balance pipes with stainless steel pipes, rehabilitate pipe supports, and repair the walkway bridges.

TIMING CONCERNS

Delaying the upgrade of the mechanical equipment and gas balance pipes could result in the failure of digesters, reducing the capacity of the digestion system.

RAMIFICATIONS OF NOT TAKING ACTION

Not replacing the mechanical equipment or piping will increase the risk of a digester failure. If too many digesters are out of service, the biosolids will not meet regulatory compliance.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

OC San advertised Project No. FE20-02 for bids on January 23, 2024, and five sealed bids were received on March 20, 2024. A summary of the bid opening follows:

Engineer's Estimate	\$ 4,400,000
<u>Bidder</u>	<u>Amount of Bid</u>
J.F. Shea Construction, Inc.	\$ 3,694,000
Innovative Construction Solution	\$ 3,775,000
Kiewit Infrastructure West Co.	\$ 4,674,000
Filanc	\$ 4,678,397
Shimmick Construction Company, Inc.	\$ 5,214,000

The bids were evaluated in accordance with the OC San's policies and procedures. A notice was sent to all bidders on April 24, 2024, informing them of the intent of OC San staff to recommend award of the Construction Contract Agreement to J.F. Shea Construction, Inc.

Staff recommends awarding a Construction Contract Agreement to the lowest responsive and responsible bidder, J.F. Shea Construction, Inc., for a total amount not to exceed \$3,694,000.

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 the OC San Board of Directors approval of the Construction Contract Agreement.

FINANCIAL CONSIDERATIONS

This request complies with the authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget Update, Fiscal Year 2023-2024, Appendix A, Page 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 Agreement
- Presentation

GS:lb