EWEB Board Consent Calendar Request

For Contract Awards, Renewals, and Increases

The Board is being asked to approve a new contract with **Platt Electric, Inc.** for turn-key replacement of seven (7) legacy variable frequency drives (VFD's) supplied by ABB, over a period of 5 years.

Board Meeting Date: July 7, 2020

Project Name/Contract #: Finished Water Pump Station, Variable Frequency Drive Replacement / Contract # 20-099-GS

Primary Contact: Rod Price Ext. 7122

Contract Amount:

Original Contract Amount:	$600,000 over 5 years
Additional $ Previously Approved:	$0
Invoices over last approval:	$0
Percentage over last approval:	0 %
Amount this Request:	$600,000 (for 7 VFD's)
Resulting Cumulative Total:	**$600,000 over 5 years**

Contracting Method:

Method of Solicitation:	Formal Request for Proposal
If applicable, basis for exemption:	N/A

Term of Agreement: 1 year with the option to renew up to 5 years

Option to Renew? Yes

Approval for purchases *"as needed"* for the life of the Contract: Yes☒ No☐

Proposals/Bids Received (Range): 2 - $444,915 to $595,871

Selection Basis: Highest ranked responsive and responsible proposer

Narrative:

Operational Requirement and Alignment with Strategic Plan

The Hayden Bridge Water Treatment Plant (WTP), Finished Water Pump Station (FWPS), supplies finished drinking water from a 15 million-gallon reservoir, to the EWEB water distribution system. Pumping is accomplished via seven (7) vertical turbine pumps, driven individually, by 600 hp motors; each with its own variable frequency drive (VFD). The purpose of the VFD is to allow pumping at a specific flowrate to match the changing demand of the distribution system.

Estimates for the typical lifespan of a VFD vary from 5-15 years, depending upon factors including, manufacture, quality of build, installation location, and environmental conditions. The VFD's in the Finished Water Pump Station (FWPS) were procured in 2002, have been in operation since early 2003, and have exceeded the 15 year lifespan estimate. They are obsolete and as such, are no longer supported by the manufacturer. This project will replace these VFD's on a 5-year schedule.

Contracted Goods or Services

The contractor will replace seven (7) VFD's over a five (5) year period:

- One in 2020
- Pending renewal - Two in 2021
- Pending renewal - Two in 2022
- Pending renewal - Two in 2023

The service includes removal of existing components, installation of the modular frame within the existing VFD enclosure, installation and wiring of modules, connection to EWEB's existing field-hardware, set-up and start-up of the VFD, including operation from the new local-control panel. Work will be scheduled during low-demand periods to minimize impacts to the water supply.

Prior Contract Activities

EWEB routinely purchases stores materials from Platt. Materials are provided on time and at competitive prices.

Purchasing Process

Staff issued a formal Request for Proposal in May 2020. Staff received two proposals and the highest ranked, responsive and responsible proposal was received from Platt Electric Inc. of Eugene, Oregon. Evaluation criteria included:

- General Adequacy of Proposed Replacement (15 points)
- Solution Modularity (20 points)
- Solution Active Front End/Line Supply Unit (15 points)
- I/O Interface, Local Controls, Communication (10 points)
- Operator Interface (5 points)
- Ability to Provide a Turn-Key Solution (20 points)
- Operational, Control, and Safety (10 points)
- Price (5 points)

Vendor Name	City, State	Offered Price	Ranking
Platt Electric Inc.	Eugene, Oregon	$595,870.94	91 points
US West Corporation	Myrtle Creek, Oregon	$444,915.00	Non-responsive

Competitive Fair Price (If less than 3 responses received)

EWEB invited seven manufacturers (and their representatives) to propose, and to attend a pre-bid meeting. Despite the excellent attendance, we only received two proposals; one was non-responsive due to missing documentation and failure to submit documentation of minimum qualifications. Retrofit installations of VFD's tend to be highly customized. The spacing constraints and commitment by manufacturers may have proven too difficult or time-consuming for most manufacturers. Based on prior discussions with contractors, equipment and installation costs, and comparison pricing for other purchased VFD's, staff are confident that the offered price is at market rates for the purchase and installation of the equipment.

ACTION REQUESTED:

Management requests the Board approve a new contract with Platt Electric, Inc. for **turn-key replacement of seven (7) legacy VFD's**. Approximately $100,000 was planned for these goods or services in the 2020

Water Capital budget of $18 Million, and the remaining VFD replacements will be budgeted annually through the life of the contract. Variances will be managed within the budget process and Board policy.