
RINCONADA WATER TREATMENT PLANT RELIABILITY IMPROVEMENT PROJECT

Project No. 93294057

Contract No. C0601

1. **Notice.** Notice is hereby given that sealed Proposals will be accepted by the Construction Program of the Santa Clara Valley Water District, Room B108, of the District's Administration Building, 5750 Almaden Expressway, San Jose, California 95118 up to 2 p.m. on **April 8, 2015**, for furnishing all material and performing all work necessary for construction of the **Rinconada Water Treatment Plant Reliability Improvement Project**, located in the City of San Jose, California.

2. **California State Department of Industrial Relations Contractor and Sub Contractor Registration Requirements.** California Labor Code section 1771.1 requires:

“(a) A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.”

“(c) An inadvertent error in listing a subcontractor who is not registered pursuant to Section 1725.5 in a bid proposal shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive, provided that any of the following apply:

(1) The subcontractor is registered prior to the bid opening.

(2) Within 24 hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in subparagraph (E) of paragraph (2) of subdivision (a) of Section 1725.5.

(3) The subcontractor is replaced by another registered subcontractor pursuant to Section 4107 of the Public Contract Code.”

3. **Summary of Work**

A. Project Description. The work to be completed under this Contract shall consist of furnishing all tools, equipment, materials, supplies, and manufactured articles and furnishing all labor, transportation and services, including fuel, power, water, and essential communications, and performing all work, or other operations required to construct the **Rinconada Water Treatment Plant Reliability Improvement (RWTP) Project** as shown on the Drawings and detailed in these

Specifications. The Project will be located entirely within the existing approximately 39-acre RWTP facility. The District proposes to improve the existing water treatment train at the RWTP through four principal modifications, the work includes, but is not limited to the following:

#1 The addition of raw water ozonation facilities and processes. Ozone would be used to provide superior disinfection, enhance the removal of particulates from the water, improve the taste of the water, and accelerate removal of other contaminants that might be present in the water sources treated at the RWTP. The formation of disinfection by products (DBPs) is lower with ozone. Ozone functionally replaces chlorine in the treatment process, although chlorine would continue to be used for providing a disinfection residual in the water distribution system.

#2 Replacement of the existing water clarification process/facilities with conventional flocculation and sedimentation processes with plate settlers. The horizontal flow flocculation-sedimentation process is more stable operationally than the existing vertical flow clarifiers and provides greater resiliency for fluctuations in the quality of water treated at the RWTP. In addition, the new basins would be designed to withstand seismic forces during an earthquake.

#3 Removal and replacement of the water process filters. The 12 new filters would meet all current seismic standards, allowing for deep bed filter media to be used and providing greater flexibility for washing the filters, as each new filter would be half the size of the current filters.

#4 Increase the plant capacity from 80 MGD to a maximum of 100 MGD for plant reliability. This increase in plant capacity, while not increasing the amount of water treated annually, provides the flexibility to reliably meet peak summer demands in the water distribution system. The new capacity would enable peak demands to be met reliably and lower potential risk of a water quality violation.

B. Sole Source Products. The Bid Documents require the Contractor to provide the following sole source products in compliance with Public Contract Code §3400.

	Specification Section	Description
1	Sections 11242, 11243, 11244	<u>Adjustable Speed Drives for Chemical Feed Pumps:</u> Allen-Bradley PowerFlex 70
2	Section 11242	<u>Sodium Hypochlorite and Hydrofluosilicic Acid Transfer Pumps:</u> Iwaki magnetic drive centrifugal pumps
3	Section 11244	<u>Diaphragm Chemical Metering Pumps:</u> Milton Roy CENTRAC

	Specification Section	Description
4	Section 11248	<u>Carbon Dioxide Storage and Feed System:</u> TOMCO ₂
5	Sections 13421, 13490	<u>PLCs and Software:</u> Schneider Electric Modicon PLCs, Quantum Unity Redundant Units with Quantum family I/O components, Schneider Electric Modicon Unity Pro PLC programming software, iFix HMI software by GE Intelligent Platforms
6	Section 13421	<u>SCADA and Historian Server Computers:</u> Hewlett-Packard DL380 Generation 8
7	Section 13421	<u>Server Operating System:</u> Microsoft Windows 2012 R2
8	Section 13421	<u>Workstation Graphics Cards:</u> AMD FirePro W600
9	Section 13421	<u>Workstation Operating System:</u> Windows 7
10	Section 13421	<u>Workstation Computers:</u> Dell OptiPlex 7010
11	Sections 13421, 13422	<u>RIO Ethernet Switches:</u> Schneider Electric ConneXium
12	Section 13422	<u>Rack Mounted Ethernet Switches:</u> Cisco
13	Section 13431	<u>Low Range Turbidimeters:</u> Hach 1720E
14	Section 13431	<u>Particle Counters:</u> Hach Model 2200 PCX
15	Section 13431	<u>Fluorometers:</u> Turner Designs Model Algae Watch
16	Section 13431	<u>Analyzers for Chlorine, Fluoride, Ozone in Water, pH, Temperature:</u> Evoqua Water Technologies, Depolox 5 with MFC Analyzer Controller
17	Section 13431	<u>Surface Scatter Turbidimeters:</u> Hach 7 High Range Turbidimeter
18	Section 13431	<u>Transmitters for Low and High Range Turbidimeter Analyzers:</u> Hach sc1000

	Specification Section	Description
19	Section 13432	<u>Magnetic Flow Meters and Transmitters:</u> ABB Instruments Water Master
20	Sections 13701, 13704	<u>CCTV and Security System Components:</u> Axis CCTV camera, Honeywell digital video recording system, Honeywell security system interface modules, HID security system card readers, Altronix security system power supplies
21	Section 13852	<u>Fire Alarm System:</u> Silent Knight/Honeywell components
22	Section 16290	<u>Power and Energy Meters:</u> Square D PowerLogic ION
23	Section 16290	<u>Power Monitoring and Analysis Software:</u> StruxureWare
24	Section 16960	<u>Electrical Analysis Study Software:</u> SKM Power Tools

4. **Contract Time.** Time limit for the completion of the work is **1827** days from the First Chargeable Day of the Contract. Refer to Article 11.04 regarding Project Milestone Completion dates and requirements.
5. **Liquidated Damages.** See Special Provisions Article 11.07 of the contract documents for requirements regarding Liquidated Damages.
6. **Estimated Cost.** The estimated cost of the Project is between \$155 million and \$190 million. This estimate is intended to serve merely as an indication of the magnitude of the work. Neither the Bidder(s) nor the Contractor will be entitled to pursue a claim or be compensated due to variance in the stated estimated cost range.
 - A. **Additive/Deductive Bid Items.** None.
 - B. **Supplemental Bid Items.** These Bid Items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District. The sum of the Total Base Bid and the Total Supplemental Bid will be used to determine the lowest Bid price.
7. **Contractor's License Requirement.** The Bidder must possess a Class A Contractor's license when the Bid is submitted.

8. Pre-Bid Conference and Site Showing.

- A.** A pre-bid conference/site visit will be conducted by the District on **March 4, 2015**. The conference will convene at 10:00 a.m. at the Rinconada Water Treatment Plant Facility, Los Gatos, California. The pre-bid conference will begin with a District presentation on the Small Business Outreach Program and be followed by a site showing. A Bid submitted by any Bidder not represented at a mandatory pre-bid conference/site visit will be considered non-responsive. Attendance at the pre-bid by subcontractors is not required.

Attendance by the Bidder at the pre-bid conference/site visit is:

- Mandatory
 Optional

- B.** The objective of the site visit is to familiarize prospective Bidders with the site; no additional site visits will be allowed. Due to security reasons, any Bidder interested in attending a pre-bid conference/site showing must call the District Plan Room no later than 24 hours in advance at (408) 630-3088, or send an e-mail to scvwdplanroom@valleywater.org and provide the name(s) of each person and their organization who will be attending the pre-bid conference/site showing. Bidders are required to report to the security guard who will have a list of those that called in advance. Each person entering will be required to show a photo ID (CA Driver's License, CA Photo ID, passport) and obtain a visitor's badge. Photography within the facility is restricted. Photos taken are subject to review by security and/or District personnel before allowed to leave the premises. Bidders must be escorted by District while on the premises.
- C.** RWTP is an active construction site. **All persons entering the site will be required to wear proper PPE**, hard hat and safety vest. No open toed shoes are allowed. Parking spaces at the site are limited and carpooling is recommended.
- D.** Reasonable efforts will be made to accommodate persons with disabilities wishing to attend the pre-bid meeting/site visit. Please request accommodations when confirming attendance.
- 9. Availability of Bid Documents.** Contract Documents, including Drawings and Specifications, are available in both paper and electronic (pdf) formats. Paper copies may be purchased for the nonrefundable price of \$300. Provide FedEx account number or add \$30 per set for packaging and postage. Electronic version is free, transferred via file transfer protocol (FTP) site.

To order Contract documents:	Request Form and information available online. Website: http://www.valleywater.org/Programs/Construction.aspx Email: scvwdplanroom@valleywater.org FAX: (408) 979-5631 Phone: (408) 630-3088
To pick up Contract documents in person:	Santa Clara Valley Water District 5700 Almaden Expressway San Jose, CA 95118 Business Hours: 8 a.m. – 5 p.m.

- 10. Inquiries.** The Bidder must submit all requests for clarification, or interpretation of the Bid Documents in accordance with the requirements stated in Article 3.04 of the Standard Provisions. Written questions must be directed to the Project Manager and submitted at least ten (10) calendar days before the deadline for receipt of Bids.

The District may issue written Addenda as appropriate for clarification or other purposes during the bidding period. Addendum notification(s) will be sent to each planholder at the email address provided by the contractor for the planholders list and addenda will be posted on the District’s website at www.valleywater.org/Programs/Construction.aspx.

- A. Project Manager.** The District’s Project Manager for this project is Mr. Mike Munson and can be reached via e-mail at mmunson@valleywater.org or at (408) 630-2926.
- B. Process Questions.** For questions regarding the advertisement process, contact the District Plan Room at (408) 630-3088, or scvwdplanroom@valleywater.org.

11. Prevailing Wage Requirements.

- A.** Workers employed on this project must be paid at rates at least equal to the prevailing wage rates as determined by the State of California Department of Industrial Relations pursuant to §1770 of the Labor Code. Said wage rates are incorporated herein by reference and may be inspected upon request. The rates are also available on the State of California Department of Industrial Relations website at <http://www.dir.ca.gov/>. See Standard Provisions — Articles 6.04 through 6.06 for related requirements.
- B.** This Project is subject to compliance monitoring and enforcement by the State of California Department of Industrial Relations. The Contractor and subcontractors must furnish the records specified in Section 1776 directly to the Labor Commissioner monthly, in a format prescribed by the Labor Commissioner.

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- 12. Bid Proposal Submittal.** All Proposals must be submitted in sealed envelopes addressed to Construction Program of the Santa Clara Valley Water District, and state the project name and project number on the outside of the sealed envelope. Each Bid must be submitted on the prescribed Bid Forms. All information on Bid Forms must be completed in ink.
- A. Alternate Delivery for Bid Submittal.** Bidders electing to submit a Proposal by FEDEX, UPS, DHL, CA Overnight, Golden State Overnight, etc., must address the submittal in accordance with instructions stated in Paragraph 11 above. Any Proposal received after 2:00 p.m. will be considered non-responsive.
- Address the outside delivery envelope as follows:
- Santa Clara Valley Water District
Attention: Construction Program – **BID**
5905 Winfield Boulevard
San Jose, CA 95123-2428
- Note: USPS (US Mail) does not deliver to 5905 Winfield Boulevard.
- 13. Bid Opening.** The Construction Program staff will open Proposals at the time and place stated in Paragraph 1 above.
- 14. Errors or Discrepancies in the Bids.** The District Board of Directors reserves the right to reject any and all Bid Proposals and to waive minor defects or irregularities in any submitted Bid Form(s) and documentation.
- 15. Bidders Security.** Each Proposal must be accompanied by cash, a certified or cashier's check, or a Bidder's bond in the sum of not less than 10 percent of the total aggregate of the Proposal including all additive Bid items. Said checks or bonds must be made payable to the Santa Clara Valley Water District.
- 16. Contract Retention.**

- The Contract Retention for this Project is established at five percent of the Contract Price.
- The Contract Retention for this Project is established at ten percent of the Contract Price. The Board of Directors has made a finding that the Project is substantially complex and therefore requires retention higher than five percent."

Substantially complex project challenges in this case pertain to the complexity and precision required to construct the work within an operating treatment plant that must remain operational at all times except for very brief shutdown periods. The number and length of planned plant shutdowns have to be kept to a minimum in order to minimize interruptions of water production and impacts to the water retailers and their customers. Contractor's work during plant shutdowns typically involves multiple disciplines (civil, mechanical, electrical, control systems) that must be planned and executed

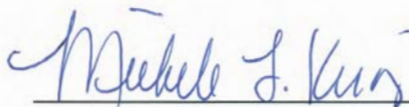
meticulously. The level of precision and coordination required for this Project is unique and beyond what is customarily required.

17. **Substitution of Securities.** The Contractor may, at the Contractor's request and expense substitute securities equivalent to the amount withheld by District to ensure the performance of the contract in accordance with §22300 of the Public Contract Code.
18. **Escrow Bid Documents.**
- A. Escrow Bid Documents must be submitted by the three apparent low bidders in a sealed container, separate from their proposal, no later than 5 p.m. on the 2nd business day (Friday) after the Bid opening. Each container shall be clearly marked on the outside with the bidder's name, date of submittal, project name, and the words "Escrow Bid Documents." Timely submission of the Escrow Bid Documents is considered material by the District.
 - B. The Escrow Bid Documents must be accompanied by a separate certification, **Bid Form 10, Escrow Bid Documents Certification**, signed by an individual authorized by the bidder to execute the bidding proposal, stating that the material in the Escrow Documents constitutes all of the documentary information used in preparation of this bid, and that he/she has personally examined the contents of the Escrow Documents container and has found that the documents in the container are complete.
19. **Small Business Preference.** The District has elected to implement the small business preference provisions of Public Contract Code §2002(a)(1). For purposes of the District's program, a small or micro business is as defined in Government Code §14837. Please refer to the small business compliance requirements stated in the Small Business Instructions included with these Bid documents.

The District is an equal opportunity employer and all contractors of District projects are to have and follow a policy of equal opportunity including adherence to all state and federal laws and regulations, including the Federal Equal Opportunity Clause.

By order of the Board of Directors of the Santa Clara Valley Water District, San Jose, California, on February 10, 2015.

ATTEST: MICHELE L. KING, CMC



Clerk/Board of Directors