



CITY COUNCIL
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Public Works Department

April 24, 2023

Request for Bid 2023

City of Ceres

Water, Wastewater, Stormwater Pump, Motor, Electrical and Instrumentation Services

Revised to reflect Addendum 1

May 9, 2023

Due: June 2, 2023, at 2:00 PM

The purpose of this Request is to hire a qualified contractor to provide services to remove, repair, and install equipment related to water, wastewater, and stormwater pumping conveyance infrastructure. All pricing shall be submitted in bid form in this document.

Background

The City Ceres (City) is located in the central San Joaquin Valley, 80 miles south of Sacramento and 95 miles east of San Francisco, in the heart of Stanislaus County. Ceres is in one of the Central Valley's richest and most diverse agricultural areas. The City enjoys a comfortable climate, with an average of 12 inches of rainfall annually. The average low winter temperature is 38 degrees Fahrenheit, with an average high of 85 degrees Fahrenheit in spring and fall, and an average high temperature in the 90s in summer. The Tuolumne River forms part of the City's northern boundary. The City's current population is 49,038.

Drinking Water System

The City operates a community water system that relies solely on groundwater from the Turlock Groundwater Subbasin. The City has 13 active drinking water wells and four (4) inactive wells with one pressure zone. In 2022, the water system produced a total of 2,110.2 million gallons (MG) with a maximum daily demand of 9.0 MG on 7/24/2022. There are two ground-level water storage tanks (reservoirs) with a combined storage capacity of 3.8 MG that currently serve the city. The reservoirs have an associated booster pump station to pump water from the reservoirs into the distribution system. The tanks have pressure regulating altitude fill valves that allow daily refilling of the tanks during low demand times without lowering the system pressure to unacceptable levels. Fifty-three percent of the total water produced is treated. There is one (1) treatment system for the removal of arsenic and manganese by coagulation and filtration for Well 32. There is one (1) ion-exchange treatment system for the removal of uranium for Well 22. There are five (5) Wells treated with Granular Activated Carbon for the removal of 1,2,3-TCP. The City currently has 11,799 service connections for residential (10,401), multi-residential (450) commercial/institutional (553), landscape irrigation (216), and government accounts (179).

Wastewater Treatment Plant

The City of Ceres treats an average of 2.5 MG a day of wastewater. The facility sits on 210 acres of land. Headworks is equipped with a Parkson Screen that works as a solids removal system and removes five (5) cubic yards of floatable solids per week. Headworks is equipped with two-20 horsepower pumps and two-45 horsepower pumps. The wastewater is then pumped to the extended aeration lagoons. The lagoons are equipped with 14 aerators in four (4) separate lagoon reactors, holding ten (10) million gallons each. The 14 aerators add oxygen to promote the growth of bacteria, which feed on the organic compounds aided by photosynthesis.

Wastewater is then distributed to one (1) of eight (8) evaporation percolation basins for disposal; eventually recharging the groundwater aquifer and evaporating into the atmosphere. During the summer months 110,000 gallons a day of wastewater are used to irrigate the facility landscape areas.

There is 950,000 gallons of wastewater pumped by the Export Pump Station 13 miles through a forced main to Turlock's Wastewater Treatment plant for disposal daily. 1 MG of untreated wastewater gravity-flows to Modesto's wastewater treatment plant each day. On site disposal capacity is rated at 2.5 MG a day.

Collections System

There are 133 miles of sewer line underground in the city. Sewer pipe sizes range from 6-52 inches in diameter. There are 14 sewer lift stations throughout the city that pump all the water to the headworks. The deepest lift station is 26 feet underground. Each lift station is equipped with two (2) pumps and an electrical cabinet with SCADA control.

Stormwater System

A majority of the City's storm drainage system was constructed in 1970. The City's existing storm drain system consists of seven (7) watersheds and 39 fully developed sub-watersheds. Each watershed is assigned a unique name that corresponds to the area of disposal.

The City stormwater system consists of 39 lift stations. Each lift station is equipped with two (2) pumps and a cabinet with SCADA control. The City consists of 28 detention basins and 19 retention basins. There are approximately 337,024 linear feet (LF) of gravity pipeline, 15,262 LF of force main, and 21,702 LF of TID pipelines within the City's limits. The existing storm drain pipelines range in size from 4-60-inches in diameter. A majority of the system consists of 18-inch diameter gravity pipelines.

Parks

The City of Ceres is eight (8) square miles with approximately 1.3 million square feet of landscaped medians and planter strips. These sites contain ground cover, trees, and plant materials. The City Maintains 14 public parks with 80-plus acres which are irrigated by 14 agricultural wells. All wells are on SCADA.

Scope of Services

The scope is divided amongst four areas, Water, Wastewater, Stormwater, and Electrical and Instrumentation. The work will generally consist of repairs, refurbishment, maintenance, shop work, and field work as described in for each task. The Contractor shall provide all necessary supervision, labor, materials, tools, and equipment to perform the work described. The contractor shall supply all labor and equipment.

Water

The City of Ceres has 13 active wells. The well equipment includes a combination of submersible and vertical turbine pumps, ranging in size from 40 to 200 horsepower. Pump depths range from 220 feet to 360 feet and pump columns range in size from six (6) inches to ten (10) inches in diameter. The work includes well pump pulling and installations, water well rehabilitations, well casing removal, repairs and installations, water well video inspections, electric motor repairs, and repair services on various types of pumps and motors at various locations throughout the City. The Contractor shall provide all necessary labor and heavy-duty equipment, such as, but not limited to, drilling rig, pump rig, flatbed truck, boom truck, tractor trailer to complete the as requested including transportation to and from the Contractor's facility to each City worksite.

1. Pump Removal/Installation and Servicing

The Contractor shall be qualified to perform water well pumps removal and installation. At the initial setup for pulling a well pump, the Contractor shall perform lockout/tagout of the electrical and hydraulic systems.

2. Well Video Survey Service

The Contractor shall be qualified to perform water well video inspections using color video equipment with side scan and down-hole survey views. Videos shall be produced in electronic MP4 format in standard definition with a pixel resolution of 640 x 480 pixels or at higher resolutions. Ability to perform these surveys at higher resolutions will be given higher consideration.

The video survey unit shall simultaneously transpose the City's name, well name, footage, and the date of inspection on the monitor screen and the video record. A footage counter/recorder shall read in feet and be accurate within 2 percent (2%) of the actual footage.

The video survey camera shall be capable of right angle or normal downhole viewing with a change in camera lens or mechanical movement of the camera. At the direction of the City, the Contractor must be able to provide right angle viewing to view any casing section in a direct elevation view.

3. Well Rehabilitation and Treatment Services

The Contractor shall be qualified to provide well rehabilitation and treatment services. Furnish all portable engine-driven pumps, necessary to perform well redevelopment and rehabilitation. Costs for temporary piping, sound proofing, and related equipment require approval by the Project Manager.

To perform these tasks, the Contractor shall have the capability to perform mineral analysis, chemical treatment, water quality testing, zone testing, well casing patches and similar casing repairs/improvements, and mechanical treatment on well casings. All chemicals used in treating wells shall be State approved for the purpose intended, must be National Sanitation Foundation (NSF) approved.

The Contractor's estimates shall include the typical type and concentration of chemicals (acids, inhibitors, polymers, neutralizers, etc.) to be/used; the appropriate contact time for the chemicals; and the typical procedure for introducing, mixing, and neutralizing chemicals in the well. In addition, the name(s) and phone numbers of any company(ies) that will supply the treatment chemicals shall be provided. Completed Material Safety Data Sheets (MSDS) for all chemicals used shall include the methods of mechanical treatment (dual swab, wire/nylon brush, sonar jetting, etc.).

Wastewater

The work includes pump pulling and installations, repairs and installations, electric motor repairs, and repair services on various types of pumps and motors at various locations throughout the City.

1. Wastewater Treatment Plant

The work would include motor and controls troubleshooting, removal, repair, and installation. Including aerators floating in sewage lagoons (accessed by boat), wastewater solids handling machines, and wastewater pumps & submersible pumps. Programming, and troubleshooting VFD's. Wire tracing and pulling. Reading, understanding, and following of electrical plans. Drawing or correcting of electrical plans.

2. Collection System

The work includes pump pulling and installations, repairs and installations, electric motor repairs, and repair services on various types of pumps and motors at various lift stations throughout the City. Troubleshooting of lift station controls.

Stormwater

The work includes pump pulling and installations, repairs and installations, electric motor repairs, and repair services on various types of pumps and motors at various locations throughout the City.

Electrical and Instrumentation

The Vendor shall service, test, repair or replace electrical control devices and their components including electrical testing and troubleshooting on low, medium, and high voltage electrical equipment and systems for A/C and D/C electronics, and site construction work. The following equipment is indicative but not all inclusive of the City's current uses:

- (1) 480V Motor Control Center
- (2) Switchgear
- (3) Transfer Switches
- (4) Variable Frequency Drives
- (5) Ground Fault Interrupters
- (6) Circuit Breakers
- (7) Ground and Protective Relays
- (8) Power Transformers 5V-480V
- (9) Wiring and Cabling
- (10) Street Lighting
- (11) Switches
- (12) Warrick Multifunction Switches
- (13) 4-20 mA Transducers
- (14) Solenoids
- (15) Valve Actuators
- (16) Pressure Switches
- (17) Flow Meters
- (18) Process Analyzers
- (19) Pneumatic Control
- (20) Electronic Control

WORK SCHEDULE

Routine Maintenance For the most part, the work will be of a non-emergency, scheduled nature between normal business hours of 6:00 AM to 4:00 PM Monday through Thursday. The work will consist of routine, on-call support to City crews in the repair and maintenance of the City's wells, pumping lift stations, and plants.

Emergency response is typically non-scheduled activity after normal business hours, or when City crews cannot respond with the full level of effort/equipment needed. The Contractor shall be

able to respond at the City's request for emergency services 24 hours a day, 7 days per week. The Contractor shall respond to emergency repairs within 24 hours and within 48 hours for non-emergency repairs.

GENERAL INFORMATION

1. Contract term is for three (3) years with the ability to extend the contract twice for a total of nine (9) years. Prior to any extensions, a meet and confer can be scheduled to re-evaluate contract prices at that time.
2. The Contractor shall be responsible for the skills, methods, actions, and work done by their personnel. The Contractor shall work directly with the City's Public Works Department in determining the quality of the work being performed. The Contractor shall give personal supervision to the work performed and shall be available for consultation.
3. Any information that the City cannot provide to the Contractor that is necessary to properly perform the scope of work is the responsibility of the Contractor to obtain and/or develop.
4. The City reserves the right to reject any and all bids.
5. No interpretation of the meaning of the bid or specifications will be made to any bidder orally. All requests for interpretations and/or clarification shall be in the form of an e-mail. (See notes below for contact information)
6. Responses to requests for interpretation and/or clarification, as well as any supplemental instructions will be in the form of written addendum to the bid. Addendum shall be placed on the City's website under RFP and Bid Opportunities for this project as outlined in the deliverables schedule below. Failure of any bidder to receive any such addendum shall not relieve such bidder from any obligation under their bid as submitted. All addendums so issued shall become part of the contract documents. The City may, in its discretion, extend the time for opening bids as necessary to allow bidders to respond to the addenda.
7. If the work performed does not meet the specifications and repeated requests are made to have the work corrected without satisfaction, the City may enforce a monetary penalty or terminate this contract. Any unsatisfactory issues will be noted as to the time and date of communication to the contractor for correction. Corrections shall be made within three (3) days of notice. Multiple notifications for the same issues over a period and or failure to correct issues may constitute a breach of contract.
8. This is a prevailing wage project; it shall be the Contractor's responsibility to make the labor rate determination. It shall also be the Contractor's responsibility to maintain all records for a *minimum* of five years and meet all reporting requirements from the Department of Industrial Relations (DIR).
9. Monthly Contractor meetings may be held to discuss contract related issues, concerns, and comments for both the Contractor and City.
10. Exhibit A is a copy of the City's Standard Agreement. Once a contractor is selected, they will be expected to sign the contract with like terms and meet or exceed the insurance requirements listed as Exhibit "B".
11. Maintain a log of each visit including date, time, and work accomplished to be turned in monthly with the invoice.
12. Should any chemical be used during the course of work, it shall be approved by the City of Ceres prior to use.
 - a. The Public Works office requires a binder with all chemical labels and SDS for any chemicals used on City grounds. These are to be updated as they change.

The chemical sheets shall accompany the invoice and will be cross-checked with the binder to ensure current information.

13. The City guarantees no minimums or maximums for the amount of work issued during this contract.

The work to be done includes the furnishing of all labor, materials, tools, equipment, and incidentals necessary to complete all the work provided for in the Scope of Services. All work shall be done in accordance with standard methods and practices for landscape maintenance standards.

INVOICING AND PAYMENT

Contractor shall invoice the City for services performed monthly.

1. **Spot checks will be done throughout the month to determine payment for each area ensuring job sites were visited and completed to satisfaction.**
2. **Contractor shall not be paid for partial work.**
3. **This is a prevailing wage Public Works project. At time of invoice, contractor shall submit certified payrolls to the DIR.**

ASSUMPTIONS

1. **The bidder shall carefully examine the site(s) of work. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work to be performed, and the quantities of materials and equipment to be furnished as to the requirements.**
2. **Proposals may be rejected if they show any alteration of form, additions not called for, conditional bids, incomplete bids, obviously unbalanced prices, erasures, or irregularities of any kind. The City reserves the right to reject any and all proposals.**
3. **All proposals must be returned on both Bid Form and Area List with Pricing Schedule in the attached forms. Bids can be mailed, hand delivered or emailed (preferred). Any incomplete bids shall be rejected.**
4. **Contractor shall be responsible to hold all licenses and certifications required to perform any task within these specifications.**

DELIVERABLES:

1. All references and requests for information or clarification for this project shall be in the form of an e-mail to Public Works Administrative Secretary, Elyse Davis-Capoeman at Elyse.Davis-Capoeman@ci.ceres.ca.us.
2. Response to all requests for information or clarification will be in the form of addenda. Addenda shall be posted to the City's website under Bid and RFP Opportunities for this

project. Addenda must be noted as received on bid summary or bid will be considered incomplete.

3. Important Dates:

- a) **RFP Advertisement Date: April 24, 2023**
- b) **Optional job walk: May 16, 2023 8:00 AM @ Smyrna Park 2650 Fowler Road, Ceres**
- c) **Requests for Interpretation and Clarification: May 17, 2023**
- d) **Addenda Due to Contractors: May 26, 2023**
- e) **Bids Due and Opening: June 2, 2023 @ 2:00 p.m.**
- f) **Tentative City Council Award Date: June 26, 2023**
- g) **New Service Agreement will begin July 3, 2023 (tentative)**

4. Bid Submission:

- a) Proposals shall be submitted to the Public Works Department by mail, hand delivery or email.
- b) Completely fill out Bid Summary below. Failure to complete Bid Summary shall result in an incomplete bid by Contractor.
- c) Supply Contact information for three references of work currently being performed of equal size.
- d) Provide Certificate of Insurance noted as Exhibit "C" of the Standard Agreement for Construction or Services.
- e) All addenda must be signed and submitted along with bid packet otherwise bid will be considered incomplete. It is the responsibility of the bidder to check the City website for all posted addenda on the "Addenda due to Contractors" date referenced above.

5. Bids can be mailed, hand delivered or emailed to:

Elyse.Davis-Capoeman@ci.ceres.ca.us

Administrative Secretary
City of Ceres
Public Works Department
2220 Hackett Road
Ceres, CA 95307

Bid Sheet				
Labor Rate				
	Description	Standard Rate	Overtime Rate	Double Time/Holiday
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	Mark Up Rates			
1				
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Bid Sheet			
Equipment Resources Rate List			
	Vehicle Number	Rate	Description
1			
2			
3			
4			
5			
6			
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