Task Order Solicitation (TOS) for Terminal Island Water Reclamation Plant (TIWRP) Control Systems Support

Related Services Area

TOS No. A3-16-08
Statement of Work

1. Background

Terminal Island Water Reclamation Plant (TIWRP) located at 445 Ferry Street, San Pedro, California is a division under Bureau of Sanitation of the City of Los Angeles, which its primary function is to reclaim industrial wastewater to usable water such as irrigation water or underground injection water. TIWRP employs Allen Bradley Programmable Logic Controllers (PLC) and Wonderware for its supervisory control and data acquisition (SCADA) system to control and to monitor the various treatment processes at the plant. The installed control system has approximately 30 PLCs and 10 remote I/O racks, totaled to about 2000 input/output points. The System also has about 30 Human Machine Interface (HMI) workstations (Wonderware application) to allow operation and engineers to interact with the plant processes. The entire control system is networked through either Ethernet or Data Highway Plus (DH+). The central control room is located at the second floor of the plant's admin building, which provides process control and monitoring capability for Operations.

There is a bureau-wide control systems project (LAWIN) underway to replace all the control systems in various treatment facilities with the Honeywell Experion Control Systems. TIWRP is third in line for the replacement sequence. LAWIN entered the construction phase at the end of 2014.

The Bureau is seeking an outside expert who has vast experience in working with the Allen Bradley PLC and Wonderware application to help maintain the system until it is completely replaced.

The Bureau's overall goal for this project is to allow the Information & Control Systems Division (ICSD) to request support services from an experienced contractor as the need for the Allen Bradley PLC and Wonderware application expertise arises. The Bureau will utilize the service from the Contractor on an as needed basis. The Contractor is expected to provide on-site service for support of scheduled construction activities, troubleshooting of unexpected system failures and any other support tasks that the Bureau deems necessary. The projected finish date of this task order is December of 2017.

2. Scope of Services

The successful proposer will provide Allen Bradley PLC and Wonderware application experts to ICSD to troubleshoot and maintain the TIWRP SCADA system on an as-needed basis. The examples of work are:

1.   If there is a need to re-route the data highway, the contractor shall review the work plan and provide recommendations to the City. During the implementation phase, the contractor shall be on-site to work with the City force to complete the task.

2.   In case of a system failure, the contractor should respond within an hour and report on-site to restore the system.

3. Requirements

All contractor personnel working on this project shall meet the following experience requirements and will be engaged in some or all of the following activities:

1.   Any work to be performed on the SCADA systems shall be coordinated through the Control Systems Engineering Associate (CSEA) of the Information & Control Systems Division (ICSD).

2.   Contractor must have prior working knowledge on Allen Bradley PLC and Wonderware application. A minimum of 5 years of field experience for the WDPF II system is required.

3.   Extensive knowledge of the SCADA system including system architecture, data highway configurations, software programming and database maintenance of the system.

4.   Provide hardware support services to the installed SCADA Systems. Hardware services to be provided by Contractor shall include, but not be limited to, hardware installations, testing, troubleshooting, and corrective maintenance. Hardware to be supported shall include controllers, input/output modules, communications modules, data highway, servers, workstations, backplanes and any other subsystems/devices that are integrated into the SCADA System.

5.   Provide assistance to City Staff to maintain the SCADA system data highway integrity in construction phase of the new Honeywell control systems.

6.   Serve as a technical expert to City Staff on the SCADA System.

7.   Provide timesheet detailing billable hours to ICSD for every service request to be made

4. Proposal:

Each proposal shall include, but not be limited to, the following information:

- **Approach to Project**

The proposer shall name a Project Lead to be the contact person between the proposer and ICSD and between the proposer and the contractor that will provide the service. The proposer shall provide to ICSD the number, experience, and availability of personnel, by name, that will be assigned to perform the work specified above.

- **Personnel Qualification**

Submit resumes detailing qualifications, including education, experience, and work history of all personnel who will participate in the work. Emphasize expertise that is applicable to the work specified in this TOS.

- **Project Requirements**

Proposer understood and complied with project requirements. Proposer shall supply the Bureau of Sanitation a project delivery plan including the number of personnel available at any time to satisfy the demand driven service requests of the Bureau.

- **Sub-Contractors**

Proposals must include MBE/WBE subcontractors as outlined in your personal services contract with the City. Subcontractor firms that were not listed in your original proposal and in your contract cannot be added without use of an approved outreach program. Details of this outreach can be supplied upon request. Proposers are reminded that proposals must include Schedule A - "MBE/WBE/OBE Subcontractors Information Form" with their proposal as outlined in the contract you have with the City. The City has set anticipated participation levels (APL) as follows: 10% MBE, 2% WBE, 1% SBE, 1% EBE, and 1% DVBE.

- **Statement of Costs**

Proposers must include an hourly rate for the Contractor for each service call made by ICSD. This hourly rate should reflect the total hourly rate to be billed to the City, including wage to employee, overhead for administrative costs, benefits provided by the consultant, and any other costs. Invoices to the City will be solely for the hourly charges of each contractor responding to the service request. There will be no other charges billable to the City. The City agrees to a minimum charge of four (4) hours per service request made by ICSD. The total project cost of this TOS shall not exceed $100,000.

5. Proposal Submission

Proposals shall not exceed ten (10) pages, exclusive of cover, dividers, and resumes. Proposals shall be submitted via email no later than 2:00 pm of proposal due date to:
- Alexa Esparza, alexa.esparza@lacity.org
- Charles Lee, Charles.Lee@lacity.org

6. Evaluation Criteria

Proposers will be rated and selected based on these criteria: Project Requirements, Personnel Qualifications, and Cost estimate.

The following rating criteria will be used to rate the proposals:

> PROJECT REQUIREMENTS - 25%
> PERSONNEL QUALIFICATIONS – 40%
> COST ESTIMATE – HOURLY RATE 35%

7. Contacts

Sanitation's Automation On Call Contract Manager is: Anita Fernandez, Director of Systems, City of Los Angeles, Phone: (213) 485-2238, E-mail: anita.fernandez@lacity.org

The Project Manager designated for this TOS is Charles Lee, Control Systems Engineer Phone: 310-648-5450, E-mail: Charles.Lee@lacity.org

8. Questions

All Task Order Solicitation questions must be submitted in writing no later than Tuesday, September 6, 2016 to Charles.Lee@lacity.org.

9.Negative Response Requested

We encourage all contractors to respond to this TOS, however, we realize you may choose not to respond for various reasons. Please assist us in understanding the reason(s) you chose not to submit a proposal for this project by sending an email to Charles.Lee@lacity.org stating you will not be proposing and brief explanation why (ex. resource availability, other commitments, project unclear, not enough time to respond, etc).

10.Disclaimer

The City may or may not decide to award any or part of this task order based on its sole convenience and shall not be responsible for any solicitation response costs.