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Request for Proposals RFP #21-1
For Professional Services

For

Design/Build Services for Supervisory Control and Data Acquisition (SCADA) System

Lee Hammond Water Users Cooperative Association is requesting proposals to supply and install a supervisory control and data acquisition system for 9 reservoir locations, 6 pump stations, and a water treatment plant facility. The current systems are working but are lacking in documentation and we would like additional support available for issues. We would like a proposal to include all costs associated with this project in a firm fixed price.

The 9 reservoir locations include tank level and battery level indications on 5 solar powered sites, and level, power failure, other status and control indications on some of the other 4 sites.

The pump station sites each contain 2 electric pumps, power failure, flow meter, pressure sensors, and 2 have pump control valves.

The water treatment plant has 3 identical filter trains, a total of 21 electro pneumatic valve controllers, operators and status indication. There are also numerous pump controls, turbidity, ph, temperature, and chlorine sensors, level and pressure sensors, flow meters, and a backup generator.

The current system is made up of 3 separate radio networks and hmi interfaces that have little interaction with each other. All radios currently in operation are MDS Transnet 900 radios. All of the controllers are programmed with ladder logic and are manufactured by AutomationDirect.

The current HMI software is written in Pascal and runs either on Windows (West Hammond) or on Linux for the other two systems. Alarms are sent either by text messaging or through a Telegram bot. Archival data storage is done in mariadb servers on each server. Two locations, basically the two water offices will no longer need HMI's, plcs, or radios for the new system.

There are a few additions to the current systems that we would like prices to add in the future. We will be building a new pump station around 800 Road 4990 in the next 8 months. We do not have an actual location yet. Also, a repeater site will need to be located to fix occasional communication failures on the far east end of our system.

We will hold a meeting on June 2nd at 10am at the treatment plant at 49 Road 5010, Bloomfield NM. We will proceed from there on a tour of the different sites. All questions regarding this project should be directed to Aaron Lee at alee@lee Hammond.org in writing after the June 2nd meeting. All questions should be submitted by June 16th. Questions and answers will be directed to all who attend the meeting or submit a letter of interest by June 16th.

Proposals are due by 4pm MDT on July 13th and will be evaluated and an award decision will be made that same evening at 6pm MDT at our regular June board meeting. You should not include any proprietary information in your proposal as it could become public during the board meeting.

No contact with members of the Board of Directors or other staff about this project should take place and could be considered ex parte communication and/or a conflict of interest and will be grounds for disqualification of any proposal.

Lee Hammond reserves the right to reject any and all proposals for not being clear or fulfilling the requirements as laid out in the above request, or being unresponsive in any way.

We also reserve the right to waive any irregularities in any or all proposals.

Thank you for your interest and time.

Lee Hammond Water Users Cooperative Association.