

# Calhan Public Works

## Request for Proposal (RFP)

### SCADA / Remote Monitoring & Control System

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#### **Project Overview**

Calhan Public Works is requesting proposals for the design, supply, installation, and commissioning of a comprehensive Supervisory Control and Data Acquisition (SCADA) system. The system will monitor and control three (3) groundwater wells and one wastewater treatment facility, with full remote access and cloud-based functionality.

#### **Scope of Work**

##### **1. Well System Control (3 Wells)**

- Automatic start/stop control based on water storage tank levels
- Integration with existing or new tank level sensors
- Monitoring of well status (run, stop, fault conditions)
- Detection and alarming of well malfunctions

##### **2. Water Storage Tank Monitoring**

- Continuous tank level monitoring
- Level-based control logic for well operation
- High and low level alarm notifications

##### **3. Wastewater Treatment Facility**

- Automatic on/off control of applicable equipment
- Flow monitoring and data logging
- Alarm conditions for abnormal operation

##### **4. Remote Monitoring & Cloud-Based System**

- Fully cloud-based SCADA platform accessible via desktop and mobile devices
- Real-time system status and data visualization
- Historical data trending and reporting
- Secure user access with role-based permissions

## **5. Alarm & Notification System**

- Configurable alarms for:
  - Tank level (high/low)
  - Well malfunctions
  - Wastewater system faults
- Notifications via text, email, or app alerts

## **Deliverables**

- Complete system design and documentation
- Equipment supply and installation
- System configuration and testing
- Operator training
- Ongoing support options

## **Proposal Requirements**

- System description and architecture
- Equipment specifications
- Installation timeline
- Cost breakdown
- Warranty and support details
- Relevant experience and references

## **Project Goals**

- Improve system reliability and automation
- Enable real-time remote monitoring and control
- Provide early detection of system issues
- Reduce manual operation and response time