



**Issued: February 28, 2022**

**REQUEST FOR QUOTATIONS**  
**For**  
**City of Corcoran Water System Meterization Project**

**Submit Responses to:**

**Attn: Dylan Zable**

**City of Corcoran**

**City Hall**

**832 Whitley Ave.**

**Corcoran, California 93212**

**Responses must be received by:**

**2:30 p.m. on April 1, 2022**

**SUBMITTALS WILL NOT BE ACCEPTED AFTER THIS DATE AND TIME**

# CITY OF CORCORAN

## WATER SYSTEM METERIZATION PROJECT

### TABLE OF CONTENTS

<b>I.</b>	<b>INVITATION TO SUBMIT QUOTATIONS</b>	<b>4</b>
<b>A.</b>	<b>BACKGROUND</b>	<b>4</b>
<b>B.</b>	<b>SCHEDULE</b>	<b>5</b>
<b>II.</b>	<b>INTRODUCTION</b>	<b>6</b>
<b>A.</b>	<b>BACKGROUND</b>	<b>6</b>
<b>B.</b>	<b>OBJECTIVES</b>	<b>8</b>
<b>C.</b>	<b>FINANCIAL INFORMATION</b>	<b>8</b>
<b>III.</b>	<b>SCOPE OF WORK AND SCHEDULE</b>	<b>9</b>
<b>A.</b>	<b>WATER METERS</b>	<b>9</b>
<b>B.</b>	<b>AMI TRANSMITTER UNITS</b>	<b>9</b>
<b>C.</b>	<b>DATA COLLECTION / COMMUNICATION SYSTEM</b>	<b>10</b>
<b>D.</b>	<b>PROOF OF CONCEPT (POC)</b>	<b>10</b>
<b>E.</b>	<b>METERING SYSTEM ANALYTICS</b>	<b>11</b>
<b>F.</b>	<b>SYSTEM INTEGRATION AND CUSTOMER PORTAL</b>	<b>11</b>
<b>G.</b>	<b>SYSTEM TRAINING AND SUPPORT</b>	<b>11</b>
<b>IV.</b>	<b>INSTRUCTIONS TO BIDDERS</b>	<b>13</b>
<b>A.</b>	<b>ITEM 1: PROCESS FOR QUOTATIONS EVALUATION AND CONTRACT AWARD</b>	<b>13</b>
<b>1.</b>	<b>STEP ONE (QUOTE SUBMITTAL AND EVALUATION, APRIL 1)</b>	<b>13</b>
<b>2.</b>	<b>STEP TWO (SITE VISIT AND PRESENTATION, APRIL 11-13)</b>	<b>13</b>
<b>3.</b>	<b>STEP THREE (SELECTION, APRIL 15)</b>	<b>14</b>
<b>4.</b>	<b>STEP FOUR (ANTICIPATED CONTRACT AWARD, MAY 11)</b>	<b>14</b>
<b>B.</b>	<b>ITEM 2: RFQ RESPONSE FORMAT</b>	<b>14</b>
<b>V.</b>	<b>EVALUATION CRITERIA 1: BIDDER QUALIFICATIONS</b>	<b>16</b>

<b>VI. EVALUATION CRITERIA 2: TECHNICAL SPECIFICATIONS</b> .....	17
<b>A. COLD WATER METERS</b> .....	17
1. GENERAL REQUIREMENTS.....	17
2. POSITIVE DISPLACEMENT METERS.....	18
3. ULTRASONIC METERS.....	19
<b>B. AMI TRANSMITTER UNITS</b> .....	19
1. GENERAL REQUIREMENTS.....	19
<b>C. DATA COLLECTION / COMMUNICATIONS SYSTEM</b> .....	20
1. GENERAL REQUIREMENTS.....	20
3. AMI SYSTEMS .....	20
<b>D. PROOF OF CONCEPT</b> .....	21
1. GENERAL REQUIREMENTS.....	21
<b>E. METERING SYSTEM ANALYTICS</b> .....	22
1. GENERAL REQUIREMENTS.....	22
<b>F. SYSTEM INTEGRATION AND CUSTOMER PORTAL</b> .....	22
1. GENERAL REQUIREMENTS.....	22
2. CUSTOMER PORTAL .....	23
<b>G. SYSTEM TRAINING AND SUPPORT</b> .....	23
1. GENERAL REQUIREMENTS.....	23
<b>VII. EVALUATION CRITERIA 3: COST PROPOSAL TABLES</b> .....	24
1. GENERAL REQUIREMENTS .....	24
2. TABLE A. COLD WATER METERS AND METER REGISTERS.....	25
3. TABLE B. AMI TRANSMITTER UNITS .....	26
4. TABLE C. DATA COLLECTION / COMMUNICATION SYSTEM .....	26
5. TABLE D. PROOF OF CONCEPT (POC) .....	27
6. TABLE E. METERING SYSTEM ANALYTICS.....	27
7. TABLE F: SYSTEM INTEGRATION AND CUSTOMER PORTAL .....	28
8. TABLE G: TOTAL COST PROPOSAL SUMMARY .....	28
<b>VIII. SIGNATURE</b> .....	30

## I. INVITATION TO SUBMIT QUOTATIONS

### A. BACKGROUND

The City of Corcoran is requesting RFQ (Request for Quotations) for the furnishing of 3,638 new radio-read water meters, as well as the furnishing of an Advanced Metering Infrastructure (AMI) system for the entire city drinking water utility system. This RFQ is for intended for the procurement of materials, supplies, and support to assist the City in implementing the completion of this citywide project. The City will be responsible for the installation of the meters, but qualified bidders will be expected to provide all necessary support and instruction for the successful completion of this system. The full system implementation of this project must be completed by December 31, 2024. The system shall have a life of at least 20 years. See Section III, Scope of Work and Schedule, for a detailed task overview.

Sealed proposals are requested and will be received by City of Corcoran for “City of Corcoran Water System Meterization Project.” Each quote must be submitted in a sealed envelope clearly marked “RFQ for City of Corcoran Water System Meterization Project” on the outside of the envelope. Interested and qualified firms are requested to submit six (6) hard copies and an electronic version of a written quote in a sealed envelope no later than 2:30 p.m. PT on April 1, 2022.

Sealed quotes will be accepted in person at the City of Corcoran City Hall, 832 Whitley Ave., Corcoran, CA 93212, or by mail to the City’s Clerk’s attention at the same address. An electronic copy of the proposal will also be required, preferably on a flash drive as one PDF file.

Requests for electronic copies of the RFQ and any questions regarding this RFQ or the Project should be directed to the Project Manager below. All questions must be received by March 22, 2022. Answers to questions will be responded by March 25, 2022, will be sent to all parties that submitted a question.

Dylan Zable

832 Whitley Ave.

Corcoran, CA 93212

Email: [dylan.zable@cityofcorcoran.com](mailto:dylan.zable@cityofcorcoran.com)

**The City of Corcoran reserves the right to accept or reject any and all quotations during the time for awarding the contract for the City of Corcoran Water System Meterization Project. Furthermore, the City of Corcoran shall have the right to waive any minor informality or irregularity in any proposal. The City of Corcoran may reject any proposal that does not comply with Section IV (Instructions to Respondents) or other contract documents.**

#### **B. SCHEDULE**

The following table details the tentative schedule for this RFQ process:

<b>Activity</b>	<b>Date</b>
<b>Deadline to Submit Questions</b>	<b>March 22, 2022</b>
<b>Deadline to Answer Submitted Questions</b>	<b>March 25, 2022</b>
<b>Deadline for RFQ submittal</b>	<b>April 1, 2022</b>
<b>City Committee review</b>	<b>April 6, 2022</b>
<b>Short-Listed Bidders Presentations</b>	<b>April 11-13, 2022</b>
<b>Selected Company notified</b>	<b>April 15, 2022</b>
<b>Proposal and agreement presented to City Council for consideration</b>	<b>May 10, 2022</b>

## II. INTRODUCTION

### A. BACKGROUND

The City of Corcoran provides water service to approximately 3,638 residential and commercial connections serving a population of approximately 23,000 people over an area of 6.4 square miles. Corcoran is located in the County of Kings within the San Joaquin Valley, approximately 60 miles south of Fresno, at an elevation of 207 feet. This location could present challenges due to extreme heat (up to 115 degrees Fahrenheit in peak summer) and sporadic below freezing temperatures in the winter.

Of the 3,638 total water services, the City of Corcoran has 1,952 metered water services and 1,686 unmetered water services. Of those customers that are metered, the meters mainly consist of nutating disc Badger and Neptune models, ranging from 3/4 inch to 2 inch for residential customers and up to 10 inch for commercial and industrial customers. Below is a table that contains the quantities of each meter size in the distribution system:

<b>Meter Size</b>	<b>Quantity of Meters</b>
3/4"	132
1"	1,459
1 1/2"	120
2"	195
3"	12
4"	15
6"	13
8"	5
10"	1
Total	1,952

At this time, all 1,952 meters are manually read one time per month. The City utilizes Springbook software. Approximately 95% of the meters are located in outdoor concrete boxes with either concrete or fiberglass lids. The remaining meters are located either without a concrete box, within a metal box and lid, inside of a building, or installed in above ground enclosures. Approximately 90% of the City of Corcoran’s water meters are approaching the end of their 20 year life cycle, while the other 10% has been replaced within the last 5 years.

The City also has many unmetered customers. The following is a table that breaks down the quantities of each unmetered service line size in the distribution system. NOTE: This table is approximate, as not every service line has been located, exposed and measured in the distribution system.

<b>Unmetered Service Line Size</b>	<b>Quantity</b>
¾”	750
1”	750
1 ½”	20
2”	150
3”	5
4”	3
6”	7
8”	1
10”	0
Total	1,686

The City of Corcoran is now interested in transitioning to a fully metered water system, utilizing metering technology that will increase operational efficiency and improve conservation and customer service objectives. **The City has decided to utilize AMI technology for this.** No other metering system is to be proposed. See Section III, Scope of Work for more details.

## B. OBJECTIVES

The City of Corcoran is soliciting quotations from firms for the procurement of 3,638 water distribution system meters and the furnishing of an AMI system with a design life of at least 20 years. The selected firm will be responsible for providing all the necessary materials, supplies and support to assist the city in implementing this citywide water meterization project. The City will be responsible for the installation of the meters, and the selected firm must be prepared to assist the City in completing this project and be fully operational by December 31, 2024.

This project is necessary to increase the accuracy, timeliness, and precision of the monthly meter readings by replacing all meters that have been installed more than 5 years ago with new cold water meters. For those meters that have been installed within the last five years, the City will check for compatibility with the approved meter system. If compatible, the City will not purchase new meters for those locations, but instead make any necessary modifications. If incompatible, the City will replace those meters as well.

The City is also considering metering data analytics and customer portal solutions. Firms may also submit optional quotes for these additional solutions, with or without the furnishing of the water meters or AMI system.

## C. FINANCIAL INFORMATION

The City of Corcoran is using funds from California's State Water Resources Control Board Clean Water State Revolving Fund. In accordance with this agreement, the City of Corcoran will purchase approximately 3,638 radio-read cold water meters as well as all necessary equipment, infrastructure, and software required to furnish an AMI system, on a schedule that will be negotiated with the selected Bidder.



### III. SCOPE OF WORK AND SCHEDULE

The services required for the City of Corcoran Water System Meterization Project are outlined below. However, final scope of work and schedule will be negotiated with the selected Bidder and may be modified. The scope of work is divided into seven parts, as outlined below.

Part A. Water Meters

Part B. AMI Transmitter Units

Part C. Data Collection and Communication System

Part D. Proof of Concept

Part E. Metering System Analytics

Part F. System Integration and Customer Portal

Part G. System Training and Support

#### A. WATER METERS

1. Furnish approximately 3,638 replacement water meters (positive displacement and/or ultrasonic are the two acceptable meter types). Any meter that the City has installed within the last 5 years will be evaluated for compatibility with the AMI system; if compatible, that meter will be retrofitted and integrated into the system rather than replaced. The meter life should be at least 20 years.

#### B. AMI TRANSMITTER UNITS

1. Furnish transmitter units for all water service meter locations. Transmitter units shall be capable of transmitting information to the data collection and communication system installed as part of this contract or to other existing collection points. The City would like

to be completely under an AMI fixed network system. All equipment necessary to connect the water meters (or their registers) to the transmitter units is required.

### C. DATA COLLECTION / COMMUNICATION SYSTEM

1. Furnish the proposed AMI data collection and/or communication system. For AMI systems, this may include whatever data collection units as necessary for a fully functioning system. GIS maps of the available City assets are available upon request. As are GIS maps of the City's water meter and flat-rate valve locations.
2. Furnish the communication system capable of transferring data from the data collection units to the City's Springbrook Utility Billing System or other alternative compatible system that can be clearly demonstrated to integrate and work effectively with the city system.

### D. PROOF OF CONCEPT (POC)

1. The Bidder that is selected will be required to conduct a Proof of Concept (POC) done in coordination with city installation of up to 50 meters and transmitter units throughout the service area, and then testing the system. Proof of Concept locations will be determined by City of Corcoran staff and will be in one section of the service area. The selected Bidder will provide all hardware and software tools to schedule, deploy, and activate the meter and transmitter units. To pass the POC, meters must be successfully read daily for a period of two weeks and maintain a read success rate of at least 98.5% every day for the period. The selected Bidder will not be allowed to proceed to full system purchase until the City of Corcoran is satisfied that the system is performing as described.

## E. METERING SYSTEM ANALYTICS

NOTE: Part E is an optional bid item, and is not required for Bidders bidding on Parts A-D, and G. The City will be accepting quotes from Bidders for only Part E.

1. Furnish a metering data management system to store and manage the data collected by the AMI system. This will be either hosted on the City's network or by using hosting services offered by the bidder. If offsite hosting is proposed, all associated maintenance and operation costs must be disclosed and presented.
2. For AMI systems, furnish a data analytics package that provides the ability to obtain, analyze, and utilize data stored in the metering data management system. Software must be provided either through licensing or a hosted solution.

## F. SYSTEM INTEGRATION AND CUSTOMER PORTAL

NOTE: Part F is an optional bid item, and is not required for Bidders bidding on Parts A-D, and G. The City will be accepting quotes from Bidders for only Part F.

1. Provide integration of the AMI system with the City's Springbrook Utility Billing System.
2. Optional for Bidders bidding on Items A-D. For AMI systems, furnish a customer portal for City customers to look at consumption history and leak detection information. Integrate within the City's Springbrook Utility Billing System.

## G. SYSTEM TRAINING AND SUPPORT

1. Provide adequate documentation describing the operation and maintenance of the AMI system and its components for use by City employees.

2. Provide training sufficient to enable City personnel to troubleshoot, configure, implement, operate, and maintain the AMI system.

## IV. INSTRUCTIONS TO BIDDERS

### A. ITEM 1: PROCESS FOR QUOTATIONS EVALUATION AND CONTRACT AWARD

The City will follow the steps below to select the Bidder whose proposal has been determined the most advantageous for the City in furnishing an AMI system for its water utility. The intended date of Bidder selection is April 15, 2022 and contract award on May 11, 2022.

#### 1. STEP ONE (QUOTE SUBMITTAL AND EVALUATION, APRIL 1)

Bidders will submit their quotations in the period of time detailed in I, Invitation to Submit Quotations which follows the RFQ Response Formation Requirements. The City will then evaluate all the quotation packages submitted according to the following evaluation criteria below to establish a short list of qualified Bidders:

Quotations Evaluation Criteria	Weight Percentage
1. Qualifications of Bidder (Based on answers given in V, Evaluation Criteria 1: Qualifications of Bidder)	25%
2. Response to Technical Specifications (Based on answers given in VI, Evaluation Criteria 2: Technical Specifications)	50%
3. Cost Proposals (Based on answers given in VII, Cost Proposal Tables)	25%

#### 2. STEP TWO (SITE VISIT AND PRESENTATION, APRIL 11-13)

If the City of Corcoran chooses, it can further evaluate up to three Bidders via site visits and presentations. This presentation shall involve discussion of the Bidder's proposed meters and AMI system, live demonstration of the system user interface for both the utility and customers, the process of extracting information from the system and importing it into the billing system, and the deployment process.

Upon completion of the site visit and presentation to the short-listed Bidders, the City will then include that information into the evaluation criteria and weigh it appropriately.

### 3. STEP THREE (SELECTION, APRIL 15)

The City will then select their preferred Bidder's contract and enter contract negotiations.

### 4. STEP FOUR (ANTICIPATED CONTRACT AWARD, MAY 11)

Once the contract has been finalized, the City will then present the contract to City Council on May 10, 2022. If the City Council approves of the contract, the Bidder will then be contacted to sign the necessary legal documents as soon as May 11, 2022 or soon afterwards.

## B. ITEM 2: RFQ RESPONSE FORMAT

Bidders shall submit a written proposal that presents their qualifications, technical specifications of products, and costs as described below.

- A. Bidder shall submit six (6) hard copies and one electronic copy (PDF) of the quotation package.
- B. In the written quotations package, the following items must be satisfied:
  - a. Cover letter on company letterhead, signed by the person who would enter contract negotiations with the City.
  - b. Responses to Evaluation Criterion 1-3.
  - c. No more than 50 pages long.
- C. Any discrepancies, need for interpretations, and Request for Information (RFI) in this RFQ should be brought to the project manager's attention via email. Written answers to clarify questions that arise may then be issued to the public.

D. The Scope of Work as described in III, Scope of Work and Schedule, and VI, Evaluation Criteria 2: Technical Specifications, of this RFQ. The City reserves the right to add or eliminate portions of those sections, as the City deems necessary.

## V. EVALUATION CRITERIA 1: BIDDER QUALIFICATIONS

Provide responses to the questions below.

1. Provide a minimum of three references – preferably at least one from a local municipality (within 90 miles of Corcoran) - regarding similar projects completed by the Bidder within the past 15 years. These references should include contact names, telephone numbers, project descriptions, and project completion dates.
2. Provide information regarding the Bidder's meter types (positive displacement and/or ultrasonic) with an ultimate recommendation for the City's utility water system.
3. Provide information regarding the Bidder's meter system options, with an ultimate recommendation for the City's utility water system.
4. Provide information on the warranty of the Bidder's meter types (positive displacement and/or ultrasonic) and system infrastructure.



## VI. EVALUATION CRITERIA 2: TECHNICAL SPECIFICATIONS

The following describes the technical requirements for the cold water meters and AMI system. The City intends to purchase the best-designed and operating water meters and AMI system to meet its long-term needs. For some items listed below, the City has identified minimum requirements that must be met. For other items, the City has identified desired end results and is open to various methods to achieve those results.

In the quotations package, please provide responses to each lettered section of the Technical Specifications. If there is any lettered section to which the Bidder does not comply, clearly identify the exceptions. Attached documentation, such as product brochures that answer the technical specification questions, will also suffice.

### A. COLD WATER METERS

#### 1. GENERAL REQUIREMENTS

- a. Replacement water meters shall be new positive displacement or ultrasonic meters of similar flow characteristics. Bidders shall describe how the proposed meters meet the requirements stated below. Bidders may quote both positive displacement and ultrasonic meters.
- b. All new meters shall be warranted to meet or exceed American Water Works Association standards C700, C701, C702, C707, C708, C710 or C715 for accuracy and head loss requirements for new meters.
- c. All meters must be “no-lead” and conform to the National Sanitation Foundation (NSF) 61 standard.
- d. All  $\frac{3}{4}$ ” meters must be of standard 9” lay length, and 1” meters will be standard 10.75” lay length.
- e. All meters and registers shall have a unique serial number neatly stamped or embossed.
- f. Registers shall display water consumption in units of cubic feet.

- g. Bidder must provide warranty information for meters and registers.
- h. Bidder must provide lead time for delivery of meter orders.
- i. The registration lid shall have the name of the manufacturer permanently molded and the serial number shall be imprinted for identification. The lid shall overlap to protect the lens and be made of engineered polymer.
- j. The meter shall register not less than 98.5% and not more than 101.5% of the water passed through the meter when it is operating within normal test flow limits. At the minimum test flow rate, the meter shall register not less than 97.0 and not more than 103.0% of the water passed through the meter.

## 2. POSITIVE DISPLACEMENT METERS

- a. If quoted, positive displacement meters shall be manufactured in accordance with applicable American Water Works Association standards C700, C701, C702, C707, C708, C710 or C715.
- b. All positive displacement meters shall be provided with an electronic encoder-type register. These must be manufactured in accordance with the applicable AWWA standard.
- c. The City may require, in their supplemental specifications, an affidavit from the manufacturer that the meters furnished comply with all applicable requirements of this specification. For each meter furnished, a certificate shall be submitted showing the meter has been tested for accuracy and capacity, in accordance with the applicable AWWA standards. Failure to meet any part of this specification shall be sufficient cause for rejection.
- d. A table must be submitted with the quotations package that indicates meter size up to 10", lay length, maximum operating capacity, maximum pressure loss at MOC, and normal test flow limits, at minimum.

### 3. ULTRASONIC METERS

- a. If quoted, ultrasonic meters shall be manufactured in accordance with applicable American Water Works Association standards C700, C701, C702, C707, C708, C710 or C715.
- b. Provide the warranted battery life.
- c. The City may require, in their supplemental specifications, an affidavit from the manufacturer that the meters furnished comply with all applicable requirements of this specification. For each meter furnished, a certificate shall be submitted showing the meter has been tested for accuracy and capacity, in accordance with the applicable AWWA standards. Failure to meet any part of this specification shall be sufficient cause for rejection.
- d. A table must be submitted with the quotations package that indicates meter size up to 10", lay length, maximum operating capacity, maximum pressure loss at MOC, and normal test flow limits, at minimum.

## B. AMI TRANSMITTER UNITS

### 1. GENERAL REQUIREMENTS

- a. A description of the physical characteristics of the transmitter, including height, length, width, weight, and a picture of the transmitter unit.
- b. A description of the recommended transmitter configuration, e.g., within the register, under the meter lid, on top of the meter lid, etc.
- c. A description of the battery used in the transmitter unit, including the expected battery life and if it is removable and replaceable.
- d. A description of the programmability of the transmitter unit, including what data can be transmitted.
- e. A description of the minimum height clearances above the meter and below the ground for transmitter installation.
- f. A description of the connection to meter registers.

- g. A description of the transmitter and battery warranty and expected life.

## C. DATA COLLECTION / COMMUNICATIONS SYSTEM

### 1. GENERAL REQUIREMENTS

- a. All water meters must be equipped to communicate with an AMI system that will enable the City to obtain timely, accurate and automated meter readings.
- b. If any licenses are required to be obtained, the Bidder must obtain all licenses on behalf of the City. Licenses must be obtained and assigned radio frequencies verified as suitable for use with the AMI system before any AMI equipment may be installed.

### 3. AMI SYSTEMS

- a. Indicate how often meter readings are normally obtained.
- b. Describe the capacity of each system component, in terms of number of meter readings stored or the number of meter readings that can be transmitted within a given time interval.
- c. Describe how the system obtains on-demand readings from a particular meter.
- d. Describe the capabilities of the system to obtain short-interval readings (e.g. hourly) to monitor and profile water consumption patterns from a particular meter or group of meters.
- e. Describe the system's communication technology for both radio-based systems and cellular-based systems.
- f. The system must contain tamper detection capability which, when the meter, transmitter or any wiring has been tampered with, must cause a tamper message to be indicated when the transmitter sends its data.

- g. The system must monitor water consumption through the meter and indicate when there is a suspected leak. Describe how the system identifies and communicates leak detection information at the time reading information is communicated.
- h. A description of any other detections.
- i. For a fixed network radio data collector system, provide a description of the mode of operation and schedule by which the data collector captures, stores, and re-transmits data received from the transmitters back to the AMI control computer.
- j. For a fixed network radio data collector system, indicate the estimated number of data collectors. The Bidder is responsible for providing a sufficient number of data collectors so that at least 98% of all expected reads are obtained. NOTE: If 100% cannot be reached, propose the number of cellular network system meters that will be required to obtain the full water utility meter reads. A map of the City-owned assets that contain towers and facilities that may be used for fixed network data collectors can be found by sending an email to [dylan.zable@cityofcorcoran.com](mailto:dylan.zable@cityofcorcoran.com).
- k. Indicate options for mounting data collectors and the Bidder's recommended configuration. Indicate minimum height of the building upon which the collector would be installed.
- l. Describe how the data collector is powered.

## D. PROOF OF CONCEPT

### 1. GENERAL REQUIREMENTS

- a. Provide any prior experiences of performing proof of concept, including customer name and results of the POC.
- b. Furnish fifty 1" water meters of the City's preferred type, as well as the requisite transmitter units and AMI infrastructure to the City. City will work with the awarded Bidder for installation.
- c. Obtain a minimum of daily reads that achieve 98.5% accuracy.

## E. METERING SYSTEM ANALYTICS

NOTE: The City is considering a metering analytics system that can extract and analyze water consumption data for review, analysis, and use by City staff. This may or may not be the same system offered by Bidders who supply the water meters and AMI system.

### 1. GENERAL REQUIREMENTS

- a. Describe the proposed analytics system, including the name of the system, primary point of contact, and functionality of the system. This can include leak detection analysis, consumption analysis, group consumption analysis, predictive analytics, water loss determination, backflow analysis, etc.

## F. SYSTEM INTEGRATION AND CUSTOMER PORTAL

NOTE: The City is considering an integration and customer portal system that will allow City customers to engage and analyze AMI data. This may or may not be the same system offered by Bidders who supply the water meters and AMI system.

### 1. GENERAL REQUIREMENTS

- a. Bidder must provide all required software and interfaces necessary for City staff to operate and manage the AMI system.
- b. Integration into City's Springbrook Utility Billing System . If not possible, the Bidder must describe other options.
- c. Describe how data obtained from the AMI system can be interfaced with the City's GIS.
- d. Describe the user interface to be used by City staff, including customization options and whether it is user or cloud based.

- e. Describe the accessibility for users (City staff) that exist for data entry and editing.

## 2. CUSTOMER PORTAL

- a. The City is considering a customer portal option, accessible by Internet, that can include at minimum a display of historical consumption and leak detection information. This portal shall have, at minimum, the capability of providing a link to the City's separate website where customer payments can be made.
- b. Describe the proposed customer portal, including customer access options, consumption historical information, emergency, or scheduled messages to specific groups of customers, leak detection information, and the supported languages of the customer portal.

## G. SYSTEM TRAINING AND SUPPORT

### 1. GENERAL REQUIREMENTS

- a. The City must be provided with all documentation needed to install, operate, and maintain the AMI system and all its components. Documentation will serve for training and reference and must be kept up to date with any system or software upgrades.
- b. The City requires training of all appropriate staff to enable them to effectively operate and maintain the system. The training will take place before and after AMI system installation, at junctures that both the City and awarded Bidder deem appropriate.
- c. The Bidder must provide on-site, online, and telephone support as needed by the City over the 20-year life of the system to ensure its proper performance.

## VII. EVALUATION CRITERIA 3: COST PROPOSAL TABLES

### 1. GENERAL REQUIREMENTS

- a. Bidder must provide prices for the equipment and services specified in VI, Evaluation Criteria 2: Technical Specifications. All quantities are estimated, and the City may purchase as indicated at the prices quoted, except for the data collectors required to establish the communications network for a fixed network system, or any other ancillary equipment needed for a fully functional AMI system, whose quantities are to be furnished by the awarded Bidder.
- b. Bidder must complete each blank cell for each line item listed in the cost proposal tables below. Indicate “N/A” if the equipment described is not incorporated in the Bidder’s proposed AMI system design. Also, indicate “N/A” in Tables A.1, A.2, B.1, C.1, and D.1 if the Bidder is choosing to not bid on water meters and is solely bidding on the system integration and customer portal and/or metering analytics system items of this RFQ.
- c. Pricing is to remain firm for the period of the contract, which is currently estimated to be through December 31, 2024.
- d. Include California state tax in both the unit cost and total cost.



## 2. TABLE A. COLD WATER METERS AND METER REGISTERS

NOTE: Positive displacement and/or ultrasonic meters may be proposed.

Table A.1. Positive Displacement Meters

Size of Meter	Quantity	Unit Cost	Total Cost
¾"	850		
1"	2,359		
1 ½"	140		
2"	245		
3"	12		
4"	10		
6"	15		
8"	6		
10"	1		
Total	3,638		

Table A.2. Ultrasonic Meters

Size of Meter	Quantity	Unit Cost	Total Cost
¾"	850		
1"	2,359		
1 ½"	140		
2"	245		
3"	12		
4"	10		
6"	15		
8"	6		
10"	1		
Total	3,638		

### 3. TABLE B. AMI TRANSMITTER UNITS

NOTE: Include California state tax for both the unit cost and total cost of the AMI transmitter units.

Table B.1. AMI Transmitter Units

Quantity	Unit Cost	Total Cost
3,638		

### 4. TABLE C. DATA COLLECTION / COMMUNICATION SYSTEM

NOTE: Include only the unit cost of a fixed network system collector. The quantity of the collectors will be determined after the preferred Bidder has been selected.

Table C.1. AMI Data Collection / Communication System

Description of Equipment	Quantity	Unit Cost	Total Cost
Handheld devices required			
AMI data collection units			
Fixed network system collectors	1		
Other (List)			
Total			

## 5. TABLE D. PROOF OF CONCEPT (POC)

Table D.1. AMI POC Upfront Cost

Description of Equipment	Quantity	Total Cost
1" positive displacement meter	50	
1" ultrasonic meter	50	
Handheld devices required		
AMI data collection devices	1	
Fixed network system collectors		
Other (List)		
Total		

## 6. TABLE E. METERING SYSTEM ANALYTICS

NOTE: Please list in detail any other costs that are not listed and need to be included for start-up.

Table E.1. Metering System Analytics

Description of Equipment	Quantity	Unit Cost	Total Cost
Analytics System, upfront costs			
Analytics Support, annual costs			
Other (list)			
Total			

7. TABLE F: SYSTEM INTEGRATION AND CUSTOMER PORTAL

NOTE: Please list in detail any other costs that are not listed and need to be included for start-up.

Table F.1. System Integration and Customer Portal

Description of Equipment	Quantity	Unit Cost	Total Cost
Integration with Springbrook (or other)			
Integration with GIS			
Customer Portal			
Customer Portal Support, annual costs			
Other (list)			
Total			

8. TABLE G: TOTAL COST PROPOSAL SUMMARY

Table G.1. Total Cost Proposal (Positive Displacement Meters with AMI)

Table Number	Description of Equipment	Total Cost
A.1	Positive Displacement Meters	
B.1	AMI Transmitter Units	
C.1	AMI Data Collection / Communications System	
D.1	AMI POC Up-front Cost	
E.1	Metering System Analytics	
F.1	System Integration	
G.1	Customer Portal	
	Total	

Table G.2. Total Cost Proposal (Ultrasonic Meters with AMI and Customer Portal)

Table Number	Description of Equipment	Total Cost
A.2	Ultrasonic Meters	
B.1	AMI Transmitter Units	
C.1	AMI Data Collection / Communication System	
D.1	AMI Up-front Cost	
E.1	Metering System Analytics	
F.1	System Integration	
F.1	Customer Portal	
	Total	

## VIII. SIGNATURE

This cost proposal is submitted by:

NAME OF BIDDING COMPANY: \_\_\_\_\_

SIGNATURE OF AUTHORIZED PERSON: \_\_\_\_\_

PRINTED NAME OF AUTHORIZED PERSON AND TITLE:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATE: \_\_\_\_\_