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**ADDENDUM ONE**

Date of Addendum: June 15, 2023

NOTICE:

This Addendum modifies, amends, and supplements designated part of the BID DOCUMENTS for the project identified as “Water Meters, AMI and Appurtenances” dated June 2023 is hereby made a part thereof by reference and shall be as binding as though inserted in its entirety in the locations designated hereunder. It shall be the responsibility of the Bidder to notify all subcontractor and suppliers he proposes to use for the various parts of the work of any changes or modifications contained in this Addendum. No claim for additional compensation due to lack of knowledge of the contents of the Addendum will be considered.

**SPECIFICATION AND PROPOSAL:**

1. Add new paragraph titled, “Guarantee of Work”, to Section 4.0 (Scope of Work), Technical Specifications on page 24 following the paragraph titled, “Installation and Training” as follows:

**Guarantee of Work**

Except otherwise specified, all work shall be guaranteed by the Bidder against defects resulting from the use of inferior materials, equipment or workmanship for (5) years from the date of final acceptance. Make good any work or material, or the equipment and contents of said building or site disturbed in fulfilling any such guarantee.

If the Bidder, after notice, fails to proceed promptly to comply with the terms of the guarantee, PWSB may have the defects corrected and the Bidder shall be liable for all expenses incurred.

2. Delete pages 32-35 of Section 11.0 (Bid Form and Specifications) and replace with the revised pages 32-36 of the Bid Proposal and Bid Form attached to this addendum #1.

**BIDDERS’ QUESTIONS AND ANSWERS:**

**Question #1**

Question: Is Field Programming acceptable? By the regulations of the FCC and owning our license, Sensus has a higher-powered frequency ability, but requires specific FCC license for a city or town.

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, RF Meter Interface Unit (MIU), Operations Specifications for requirements.*

**Question #2**

Question: The meters stipulate they need to be Mach 10 which is the branded meter of Neptune and needs to be ultrasonic. The Sensus Iperl has been in the market since 2010 and exceeds the performance standards of AWWA and performance accuracies in your document. Is the Iperl meter acceptable?

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, Meters, Meter Couplings, Cable, Cold Water Meter for requirements.*

**Question #3**

Question: The Iperl has plastic threads on the end of the meters. Based on statistics, returns, and my experience, the Iperl spuds have less returns than their bronze spuds and equivalents and we would like clarification on acceptability. Is the Iperl meter acceptable?

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, Meters, Meter Couplings, Cable, Cold Water Meter for requirements.*

**Question #4**

Question: Will the MIU/RF devices be installed inside or outside the residence? This will affect range for fixed collectors.

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, Physical/Mechanical Requirements, Wall Unit for installation requirements.*

**Question #5**

Question: Would the supply board consider a two week extension so as to gather specific information to perform a propagation study to accurately price the equipment quantities for a Fixed network?

*Answer: Sealed bids shall be submitted by 12:00 PM on Thursday, June 22, 2023.*

**Question #6**

Question: Would the city be open to considering a Cellular Solution for their AMI system?

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, Fixed Network Compatibility for communication protocol requirements.*

**Question #7**

Question: Under the section "Cold Water Meter", it states "Meters shall be Mach 10 solid state ultrasonic as manufactured and supplied by Neptune or equivalents that meet the performance standards of the specification." Is this a proprietary bid for Neptune only? Or, will an equivalent meter be considered if it meets the specifications besides being manufactured by Neptune?

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, Meters, Meter Couplings, Cable, Cold Water Meter for requirements. The specification is clear on this.*

**Question #8**

Question: Should the ultrasonic meter be capable of providing pressure information and water temperature information? Example: Should the ultrasonic meter have built in pressure sensors so that it can alert the utility of spikes or drops in pressure? (this will help detect service line leaks, water main breaks, etc)

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, Meters, Meter Couplings, Cable, Cold Water Meter for requirements. This is not a requirement of the specification.*

**Question #9**

Question: Is it the Pawtucket Water Supply Boards intentions to utilize the AMI/fixed network system from day one and have the capability to read the meters via drive-by/AMR as a back-up if the network goes down? OR, do they intend to start in a Drive-by/AMR mode, with the ability to upgrade to AMI in the future?

*Answer: The intent is to utilize the AMI/fixed network system as soon as possible.*

**Question #10**

Question: The AMI Network Functionality states that it must provide hourly consumption interval data - will it be acceptable if the system provides 15-minute interval data, in addition to hourly? 15-minute interval data provides even great benefits than hourly.

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, AMI Network Functionality for minimum requirements.*

**Question #11**

Question: The AMI Functionality Section states that the system shall provide priority alarm notification of potential leak and/or reverse flow events with user configurable email or text messages for notification to utility personnel. Will additional alerts/alarms be acceptable, such as Low Temperature Alerts (catch a meter freeze before it happens), Pressure Alerts, Empty Pipe Alerts, Tamper Alerts, etc., in addition to potential leak alerts and reverse flow events?

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, AMI Network Functionality for minimum requirements.*

**Question #12**

Question: Is the Pawtucket Water Supply Board not requiring a Customer Portal with this brand new metering system? A customer portal provides the end user the ability to monitor their own water usage and set leak alerts via a website or smartphone application.

*Answer: Refer to Section 4.0 Scope of Work, Technical Specifications, AMI & AMR Utility Software Application Overview section for the requirements.*

**END OF ADDENDUM ONE**

## 11.0 – Bid Form

### **FURNISHING WATER METERS AND APPURTENANCES**

The Pawtucket Water Supply Board (PWSB) is soliciting bids for the furnishing of Ultrasonic Water Meters, Appurtenances and an Automatic Meter Reading & Infrastructure (AMR & AMI) System. Several shipments may, therefore, be required during the course of the contract. The bidder agrees that all materials shall be shipped as ordered and shall be delivered to the Pawtucket Water Supply Board meter stock room or other location as directed by PWSB as soon as possible after an itemized order is placed. Complete delivery of all items ordered at various times must be made within 30 days of the order unless a longer lead time is noted for specific items on the bid sheet. At least 24 hours advance notice shall be provided prior to making any delivery. No delivery will be accepted before 7:30 A.M. nor after 3:00 P.M.

The undersigned hereby proposes to furnish the materials, equipment and services listed in the Proposal for the unit prices indicated and in accordance with the technical specifications in Section 4.0, Scope of Work. The unit prices will include all charges such as freight, unloading, etc. Material quantities as listed are estimates only and the actual quantity of materials ordered may vary from the stated quantities. The bidder further agrees that, if awarded the contract, the unit prices offered in this Proposal shall remain valid through December 31, 2024. Materials may be ordered at any time during this period at the unit prices shown in the bid. Certain items may not be ordered at all. Upon mutual agreement of both parties, the contract may be extended for not more than one (1) additional year with no change in unit prices.

**To be eligible for consideration, Bidder must quote on EACH AND EVERY ITEM and complete the “Anti-Kickback Acknowledgment” form attached (APPENDIX A) to this document.**

Payment will be made for the total quantity of materials delivered at the unit prices stipulated in the Proposal. Payment will be made only after all items to be supplied on each order or partial order as requested by the PWSB are delivered.

**23-045: Water Meters, AMI and Appurtenances**

**BID PROPOSAL**

**(All blanks on this form must be completed in ink or typewritten)**

Bidder acknowledges receipt of the following addenda:

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Name of Bidder (Type or Print)

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Signature

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Title

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Company

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Address

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Telephone Number and Extension

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The bidder understands that the Pawtucket Water Supply Board reserves the right to determine equivalent proposals, reject any or all bids and to award contracts which will be in the best interest of the Pawtucket Water Supply Board.

**A. Bidder proposes to furnish water meters and appurtenances in accordance with the Contract Documents at the following prices:**

Item	Description	Estimated Quantity	Unit Price	Extended Price
1.	5/8" Water Meter	22,050	\$	\$
Unit Price in Words:				Per Unit
2.	3/4" Water Meter	300	\$	\$
Unit Price in Words:				Per Unit
3.	1" Water Meter	560	\$	\$
Unit Price in Words:				Per Unit
4.	1-1/2" Water Meter	215	\$	\$
Unit Price in Words:				Per Unit
5.	2" Water Meter	375	\$	\$
Unit Price in Words:				Per Unit
6.	RF Meter Interface Unit – Wall Mount	23,000	\$	\$
Unit Price in Words:				Per Unit
7.	1-1/2" Flange Kits with Gaskets	200	\$	\$
Unit Price in Words:				Per Unit
8.	2" Flange Kits with Gaskets	350	\$	\$
Unit Price in Words:				Per Unit
9.	1-1/2" Flange/FIP Meter Flange Coupling	200	\$	\$
Unit Price in Words:				Per Unit
10.	2" Flange/FIP Meter Flange Coupling	350	\$	\$
Unit Price in Words:				Per Unit
	SUBTOTAL for Part A, Meters and Appurtenances (Sum of Items 1 – 10)			\$
	Subtotal in Words:			Dollars

**B. Bidder proposes to furnish and install an Automatic Meter Reading/Infrastructure System in accordance with the Contract Documents at the following prices:**

Item	Description	Estimated Quantity	Unit Price	Extended Price
11.	AMR & AMI Software System annual subscription per customer (Includes all cloud-based software (SaaS), Customer Portal Software, installation, programming, support during system integration)	23,500 Customers	\$	\$
Unit Price in Words:				Per EndPoint
12.	Fixed Network Data Collection Units (Includes all specified hardware, antenna, cable, UPS and Installation)	6	\$	\$
Unit Price in Words:				Per Unit
13.	Fixed Network Data Collection Units - Maintenance Plan (per unit/per year)	6	\$	\$
Unit Price in Words:				Per Unit
14.	Handheld Data Collector Device	4	\$	\$
Unit Price in Words:				Per Unit
15.	Handheld Data Collector Device – Maintenance Plan (per unit/per year)	4	\$	\$
Unit Price in Words:				Per Unit
16.	Mobile Data Collection Device	4	\$	\$
Unit Price in Words:				Per Unit
17.	Mobile Data Collection Device – Maintenance Plan (per unit/per year)	4	\$	\$
Unit Price in Words:				Per Unit
18.	Training and Support (hours)	80	\$	\$
Unit Price in Words:				Per Hour
	SUBTOTAL for Part B, AMR & AMI System (Sum of Items 11 – 18)			\$
Subtotal in Words:				Dollars

**C. The Total Contract Price is equal to the Sum of the Subtotals of Part A and B of the Bid Proposal as shown above:**

Total Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_ )

**D. Add/Alternate Items**

D.1.0 Fixed Network Data Collection Unit:

Unit Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

D.2.0 UPS Outdoor Power System Assembly for Fixed Network Data Collection Unit:

Unit Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

D.3.0 Antenna for Fixed Network Data Collection Unit:

Unit Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

D.4.0 150W Solar Panel Assembly for Fixed Network Data Collection Unit:

Unit Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

D.5.0 Handheld Data Collector Device:

Unit Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

D.6.0 Mobile Data Collection Device:

Unit Price in Words: \_\_\_\_\_ Dollars (\$ \_\_\_\_\_)

**Note: Bids to be evaluated based on total contract price lump sum in Section C of the Bid Proposal and unit price bid items 1 through 18 in Sections A and B of the Bid Proposal. Acceptance and incorporation of Add/Alternate bid items shall be at PWSB's sole discretion.**