

Town of Ayer
Department of Public Works
25 Brook Street
Ayer, Massachusetts 01432
Telephone 978-772-8240

Acknowledgement of Receipt

Release Date	January 9, 2017
Bid Title	Furnish and Deliver Water Meters
Bid Number	17DPW02
Number of Documents	The Bid Package consists of one (1) PDF documents.
Pre-Bid Conference	Not Applicable
Questions Due	January 20, 2017@ 12:00 PM
Bids Due	January 25, 2017 @ 2:00 PM
Please provide the requested information below as acknowledgment that you have received our bid package noted above. It is recommended that interested bidders complete this acknowledgment and return via Fax to the Town of Ayer, Department of Public Works at 978-772-8244 or by email at DPW@ayer.ma.us . Only by doing this, will the Town be able to provide notification of addenda* or answered questions relating to this Bid. Only those companies or individuals shown on the Distribution Register will be sent addenda to this Bid. By completing and returning this acknowledgement will ensure you are recorded on the Distribution Register. Proposals from companies or individuals not acknowledging the addenda may be rejected as not responsive .	
Name of Company or Individual (Print)	
Name / Title of Contact (Print)	
Address (line 1) (Print)	
Address (State/City/Zip) (Print)	
Telephone Number	
Fax Number	
E-mail Address (Print)	
Signature	
Date	
* Addenda will be posted to the website. Please check the website for addenda before submitting your bid to the Town. Bidders who access the bid package from the Town's website are responsible for checking the website periodically for any addenda that may be issued by the Town.	

Invitation for Bids
17DPW02
Furnish and Deliver Water Meters
Released: January 9, 2016



Bids Due
January 25, 2017 @ 2:00 PM
Town of Ayer DPW
25 Brook Street
Ayer, Massachusetts 01432

LEGAL NOTICE

**Town of Ayer
Invitation for Bid (IFB)
17DPW02
Furnish and Deliver Water Meters**

The Town of Ayer is accepting sealed bids for Furnish and Deliver Water Meters. Copies of the Invitation for Bid (IFB) package will be available beginning **Monday January 9, 2017** at the **Ayer Department of Public Works, 25 Brook Street, Ayer, Massachusetts 01432** between the hours of 7:30 A.M. – 3:30 P.M, or from the Town's web site www.Ayer.ma.us and will be available until submission deadline. Sealed bids must be submitted no later than **2:00 PM, Wednesday January 25, 2017** to the **Ayer Department of Public Works, 25 Brook Street, Ayer, MA 01432**. LATE BIDS WILL NOT BE CONSIDERED. Bids will be publicly opened after submission deadline. The Town reserves the right to reject any and all bids as determined to be in the best interests of the Town and to waive minor informalities.

**Mark Wetzel, P.E.
Superintendent of Public Works
January 9, 2017**

17DPW02
Furnish and Deliver Water Meters
Procurement in Brief

Primary Procurement Contact	Mark Wetzel, P.E. 978-772-8240 mwetzel@ayer.me.us
Bid Package Available	Monday, January 9, 2017 Information and details of bidding requirements may be obtained at the DPW Administration, 25 Brook Street, Ayer, Massachusetts 01432, or online at the Town's web site http://www.Ayer.ma.us
Pre-bid Meeting	Not Applicable
Deadline for Written Questions	Friday, January 20, 2017 @2:00 PM By Mail: Ayer DPW, 25 Brook Street, Ayer, MA 01432 BY Fax: 978-772-8244 By E-mail: DPW@Ayer.ma.us Questions are to be clearly labeled as: QUESTIONS - (Furnish and Deliver Water Meters - 17DPW02)
Addenda	If any changes are made to this bid, an addendum will be issued. Addenda will be e-mailed and posted on the Town's webpage to all bidders on record as having received the bid package.
When and where bids are due	Wednesday, January 24, 2017, 2:00 PM, AYER DPW, 25 Brook Street, Ayer, Massachusetts 01432. LATE BIDS WILL NOT BE CONSIDERED
Where bids will be opened	Ayer DPW, 25 Brook Street, Ayer, MA 01432. After submission deadline
Bid Deposit	Will NOT be Required
Number of Required Paper Copies	1 copy
Contract Award	Approval of Board of Selectmen
Contract Length	This will be a 1year contract, starting upon execution. This agreement may be renewed or extended for up to TWO additional years in ONE year increments.

Upon Award of Contract	
Payment Bond	Will NOT be Required
Performance Bond	Will NOT be Required
Insurance	Refer to Contract Terms.
<p>* Facsimile transmissions for written inquiries must be sent prior to the above date and time deadlines. Any hand delivery or facsimile received after the due date and time will not be addressed. The time/date stamp machine located in the receiving office will govern for the date and time requirements mentioned in the table above and throughout this document. Please allow enough time for hand delivery or facsimile transmissions.</p> <p>** The time for award may be extended by the Town. The Town reserves the right to change, delay, cancel, or expedite the contract award date. The Bidder agrees that the offer is effective for (a) at least ninety (90) calendar days from the opening date of the bids (b) a contract is executed, or (c) this bid is cancelled, whichever of (a), (b) or (C) occurs first. The Town reserves the right to reject any and all bids as determined to be in the best interests of the Town and to waive minor informalities.</p>	

PART 1 – GENERAL CONDITIONS AND SUBMISSION REQUIREMENTS

1.1 INTENT

The Town of Ayer is issuing this Invitation for Bids (IFB) with the intention of acquiring bids for Furnish and Deliver Water Meters. All bids are subject to the provisions of M.G.L. Chapter 30B. The Town will award the contract to the lowest responsive and responsible bidder. The Town of Ayer reserves the right to reject any and all bids as determined to be in the best interests of the Town and to waive minor informalities. Such actions will be deemed to be in the best interests of the Town. Unless sooner rejected or accepted, all bid proposals must be firm and continue in effect for ninety calendar days (90) following the date of bid opening.

The intention of this IFB is to provide services as needed.

1.2 QUANTITIES

Unless otherwise stated, the quantities set forth herein are ESTIMATES ONLY. Any quantities indicated on the Bid Price Form or elsewhere in the bid package are estimates only and are given solely as a basis for the comparison of bids. The Vendor shall have no claim for additional compensation, or refuse to do the work called for, or provide the requested items, by reason of the actual quantities involved being greater or lesser by any amount than those called for in the bid.

1.3 GENERAL CONTRACT TERMS

The successful Bidder must enter into the Form Agreement included in this IFB. In accordance with Massachusetts General Laws, the contract continuation beyond first year is subject to annual appropriation and/or availability of funding.

The Town may terminate the Contract at any time upon written notice for any reason including its own convenience or for cause, including but not limited to, failure to perform the work required under the contract, failure to document satisfactorily to the Town amounts being charged, failure to have any necessary local, State or Federal licenses and/or permits, failure to pay any and all required taxes, failure to comply with any local, State or Federal regulations pertaining to services to be provided, failure to promptly correct any performance or lack of performance which conflicts with the Town's use, and failure for satisfactory behavior of all staff and management. In the case of a termination for cause, the Town shall give the Contractor a written notice as provided in the Agreement.

1.4 QUESTIONS REGARDING BID

The Bidder shall be satisfied as to the requirements to enable intelligent preparation of your bid. The Bidder shall be familiar with all the Bid material requirements and documents before submitting the bid in order that no misunderstanding shall exist. Bidders shall promptly raise the issue of any ambiguity, inconsistency or error, which they may discover upon examination of the bid documents, specifications, services, work site or any other conditions which may apply. No allowance will be made for any claim that the bid is based on incomplete information.

Inquiries concerning any part of this Bid shall be directed to the individual(s) listed under the Procurement in Brief. Bidders should note that **oral communications are not binding on the Town and only written responses by the Town will be considered.** All

requests/questions must be submitted in writing. Questions may be delivered by hand, fax or email as referenced under the Procurement in Brief by the deadline. Questions that may be asked during any pre-bid conference should also be sent in writing in order to receive an official response. Requests properly presented that in the opinion of the Town require interpretation, correction, or change in the Bid Documents will result in an issuance of an Addendum to the Bid Documents. Such Addendum shall subsequently become part of the contract. The Town will forward responses to all persons who are on record as receiving the bid package. Questions received after the due date will not be responded to unless the Town determines it is necessary. Bidders, please allow enough time for hand delivery or facsimile transmissions.

1.5 INFORMATION ABOUT CHANGES TO THE BID (ADDENDA)

In the event that changes/additions are made to this bid, an addendum will be issued to every person (entity) on record as receiving the bid package. Addenda will be emailed, if an email address was not provided, then it will be faxed. If a fax number was not provided, then the addenda will be mailed. Addenda will also be posted to the website. Please check back on the website for addendums before submitting your bid to the Town. Bidders may not be notified individually of Addendums.

1.6 BID DEPOSITS AND BONDS – Not Applicable

1.7 MINIMUM WAGE RATES – Not Applicable

1.8 PAYMENT AND DISCOUNT TERMS, ADJUSTMENTS FOR INCOMPLETE OR UNACCEPTABLE WORK

Payment terms for the Town of Ayer are net 30 days. The unit bid price shall be the basis for payment for purchased items or services. Payment shall be based on the items or services purchased. Invoicing may be performed after delivery, work has been completed, or monthly, for items or services that have been fulfilled.

Invoices are to itemize charges for labor, equipment, and supplies. The Town will not be responsible for payment of any charges not itemized to the Town's satisfaction. Pre-payment is NOT allowed. Invoices must include the Town's purchase order number. The Purchase Order number will change with each fiscal year.

Invoices for additional services must include the date and times of the work, the type of the services performed, the number of hours or units to be charged, and the name of the person who authorized the work. They are to be sent in duplicate directly to the Town's designee for processing and are not to be included on the regular monthly invoice.

Adjustments for Incomplete or Unacceptable Work

The Town reserves the right to withhold payment for incomplete or unacceptable work, as outlined in this IFB. The Town shall provide notice of any work that is deemed to be incomplete or unacceptable, for which the Vendor shall rectify that condition to the satisfaction of Town. The Town will also reduce the bill for any services deemed

unsatisfactory. At no time will penalty assessment be recoverable by the Vendor.

The Vendor shall take all proper precautions to protect Town and private property from damage and/or loss. Should any damage to, and/or loss of, property be caused by the Vendor, the Vendor will be required to make repairs and/or restitution immediately at its expense.

1.9 BID MODIFICATIONS OR WITHDRAWALS

Bids may be corrected, modified, or withdrawn prior to the submission deadline; requests to do so must be received in writing to the Town Manager. After the submission deadline, bids may not be changed. Minor mistakes may be waived by the Town.

1.10 PREMATURE OPENING OF A BID

The Town will not be responsible for the premature opening of any bid not properly identified. The Town may reject bids which are incomplete, not properly endorsed, or signed, or which otherwise are contrary to these instructions.

1.11 – UNEXPECTED CLOSURE OR DELAYS

If, at the time of the scheduled bid submission deadline, the designated location for delivery of the bid is closed due to uncontrolled events such as fire, snow, ice, wind, building evacuation or other the deadline will be postponed until **11:00 a.m.** on the next normal business day. Bids will be accepted at the same location until that date and time.

1.12 – LATE SUBMISSIONS

The Town assumes no responsibility for late submissions due to mail, courier, or delivery problems. LATE BIDS WILL NOT BE CONSIDERED.

1.13 - REJECTION OF BIDS

The bid must satisfy all the requirements in order to be considered for award. Failure to complete the required forms, answer any questions, or provide the required documentation will be deemed NON-RESPONSIVE and result in rejection of the bid unless the Town determines that such failure constitutes a minor informality that can be corrected without prejudice to other Bidders. A bid may be rejected if the Bidder:

- Fails to adhere to one or more of the provisions established in the bid package;
- Fails to submit its bid by the time or in the format specified herein or to supply the minimum information requested herein;
- Fails to submit its bid to the required address on or before the specified submission deadline;
- Misrepresents its service or provides demonstrably false information in its bid, or fails to provide material information.

1.14 – TAXES

Purchases made by the Town are exempt from the payment of all Federal excise tax and the payment of Commonwealth of Massachusetts sales tax and any such taxes must not be included in the bid prices. If requested, the Town will provide the awarded bidder with a copy of the Certificate of Exemption.

1.15 – PUBLIC RECORDS

Under the Massachusetts General Laws, the Town cannot assure the confidentiality of any materials or information that may be submitted by a vendor in response to this Bid. Thus vendors who choose to submit confidential information do so at their own risk. All bids or other materials submitted by the vendor in response to this Bid will be open for inspection by any person and in accordance with Massachusetts General Laws, Chapter 66 (Public Records Law). Any statements reserving any confidentiality or privacy rights in the submitted responses or otherwise inconsistent with these statutes will be void and disregarded. Unless specifically addressed by statute, the Town may charge twenty cents (\$0.20) per page for photocopies, twenty-five cents (\$0.25) per page for microfilm copies and fifty cents (\$0.50) per page for computer printouts. The Town may charge the actual cost of reproducing a copy of a record that is not susceptible to ordinary means of reproduction, such as large computer records or over-sized plans. The Town may charge and recover a fee for the time an employee spends searching, redacting, photocopying and re-filing a record. The Town will provide a written, good faith estimate of the applicable copying, search time and segregation time fees to be incurred prior to complying with a public records request where the total costs are estimated to exceed ten dollars (\$10.00).

All proposals, materials, drawings, plans, etc. shall become the property of the Town and may be considered under the Public Records Law public information.

1.16 – CONFLICT OF INTEREST

By execution of a contract with the Town of Ayer, the Bidder acknowledges that the Town of Ayer is a municipality for the purposes of Massachusetts General Laws, Chapter 268A (the Massachusetts conflict of interest statute), and agrees, as circumstances require, to take actions and to forbear from taking actions so as to be in compliance at all times with the obligations of the contractor based on said statute.

1.17 – OTHER NOTICES

The consideration of all bids and subsequent selection of the successful applicant shall be made without regard to race, color, sex, age, handicap, religion, political affiliation or national origin.

The Bidder shall adhere to the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws, Chapter 151B).

The provisions relating to non-discrimination and affirmative action in employment shall flow through all contracts and subcontracts that the successful Bidder may receive or award as a result of this contract.

Any services provided by the Bidder shall be rendered through a professional services contract; the Bidder will not be considered an employee of the Town and will not receive any benefits of an employee.

The Bidder shall comply with Massachusetts General Laws, Chapter 66A if the Bidder becomes a "holder" of "personal data". The Bidder shall also protect the physical security and restrict any access to personal or other Town data in the Bidder's possession, or used by the Bidder in the performance of the Contract, which shall include, but is not limited to the Town's public records, documents, files, software, equipment or systems.

1.18 – PRE-BID CONFERENCE

Refer to Procurement in Brief for details, if any.

1.19 – TIE BID

In the event that there is a **tie bid** between two (2) responsive and responsible bidders, the award of the contract will be determined by a coin toss. The bidder's whose submission was received earliest shall be assigned "Heads" in the coin toss. In the event that there is a **tie bid** with three (3) or more responsive and responsible bidders, the award shall be made by a draw by lot limited to those bidders. The coin toss/draw by lot shall be scheduled within two (2) business days from when it was determined by the Town to be a tie bid. The bidders involved shall be given an opportunity to attend. The coin toss/drawing shall be witnessed by at least three (3) Town officials. The tie breaker event shall be held at the Ayer Town Hall during regular business hours.

1.20 – CONTRACT AWARD

The Town reserves the right to reject any and all bids as determined to be in the best interests of the Town and to waive minor informalities. The contract will be awarded to the responsive and responsible bidder offering the lowest price for year one of the bid. There will be only one contract awarded under this bid.

The Town herein declares its express purpose not to award the contract to any Bidder unable to furnish evidence, satisfactory to the Town, that it has sufficient ability, experience, and capital to execute and complete the work in accordance with the contract. If requested, any Bidder may be required to demonstrate financial stability satisfactory to the Town.

The Board of Selectmen are the awarding authority for the contract. Award, payment and performance obligations shall depend on the availability and appropriation of funds.

The Town reserves a period up to ninety (90) calendar days following the opening of the

bids in which to evaluate and award the contract.

Upon bidder selection, the Town of Ayer will mail or email the contract to be executed by the Bidder, who will return the required number of copies with the required insurances and bonds. The Town of Ayer will then counter-sign the contracts and will return one complete contract to the Bidder. Unless otherwise noted by the Town, the terms and conditions contained therein are not negotiable.

1.21 – SUBMISSION

REQUIREMENTS

1. The bid is to be submitted and addressed as follows: Department of Public Works, 25 Brook Street, Ayer, Massachusetts, 01432.
2. The bid is to be clearly marked: IFB 17DPW02, Furnish and Deliver Water Meters
3. Bidder should acknowledge all addenda related to this IFB, if any. Failure to receive or acknowledge any addenda does not relieve the bidder of any changes, conditions, quantities, methods, requirements that may result by the issuance of the addenda. Bidders are encouraged to check the Town's website www.Ayer.ma.us for addenda before submitting your bid to the Town.
4. Bidder must submit a completed **Bidder Information Response** form with the contact information and questions answered.
5. Bidder must submit a completed **Bid Form** or an exact copy, signed by an individual authorized to negotiate for and contractually bind the Bidder. All prices must be reflective of all costs for delivery. No price adjustments will be allowed. Fuel surcharges or vehicle surcharges or adjustments will not be allowed.
6. Bidder must provide the required number of references. For each, provide the following: a contact person and title, customer's name, address, telephone number, email, and a brief description of the actual services provided (sample format included in bid package). Do not use the names of relatives or Town Employees as references. Do not use any previous Town contracts as a source of project reference information. You may use previous Town contracts as a record of your experience only. The Town has provided a Professional References Form (attached) that the bidder may use but is not required to use this form; however, the Bidder is required to provide in whatever format at least the requested information that is stated on the Professional Reference Form. If any of the requested information is not available, the bidder is to disclose this fact and why.
7. A signed **Certificate of Good Faith**;
8. A completed **Certificate of Compliance with Massachusetts Tax Laws** or Certificate of Good Standing issued by the Massachusetts Department of Revenue;

9. A completed **Certificate of Authority** (attached) or **Corporate Resolution**; if applicable;
10. Bids must be received and time stamped no later than the deadline stated in the **Procurement in Brief** (Where and When Bids are Due). LATE BIDS WILL NOT BE CONSIDERED.
11. A **Bid Bond** NOT required.
12. Delivery will be at the expense of the Bidder. Any and all damages that may occur due to packaging or shipping will be the sole responsibility of the Bidder

The Town reserves the right to reject any and all bids as determined to be in the best interests of the Town and to waive minor informalities.

PART 2 – SCOPE OF SERVICES or PRODUCT SPECIFICATIONS

2.1 – GENERAL

The Town of Ayer invites bids to furnish and supply components for an existing advanced encoder-based remote metering system.

COMPATIBILITY

The existing Automatic Meter Reading System consists of reading equipment, meters, RF transmitters and software provided by the Neptune Technology Group. The meters, RF transmitters and software supplied for this bid shall in all ways be compatible with the existing system.

2.2 – Delivery

Delivery of meters must be made within ten (10) days of an order being placed. All delivery is FOD and no additional charges for shipping, gas, or other items may be added to the price.

2.3 –BID ITEMS 1&2: METER INTERFACE UNITS (MIUs)

Meter Interface Units MIUs shall collect meter usage from an encoder meter register and transmit the meter reading and a unique ID number to the data collection device. They shall interrogate the encoder register and transmit the meter reading and other information to Ayer's existing remote reading device. MIUs shall be compatible with Neptune and Sensus-protocol (UI-1203) absolute encoder registers. MIUs shall feature "auto detect" functionality to detect the type of encoder connected and shall not require reprogramming in the field. MIUs must be capable of being read by a walk-by handheld computer equipped with a RF receiver, a mobile system with an RF receiver mounted in a vehicle, and a fixed network data collection system.

The MIU shall be capable of logging 96 days of hourly consumption data, available for retrieval via RF activation from the handheld data collection device.

The MIUs shall be attached to new meters, or they shall retrofit existing meters in the field. The MIUs shall be manufactured in both wall and pit models. The wall MIU shall have the ability to be mounted in a basement or on the outside of a house. The pit MIU shall have the ability to function when mounted in a pit or an underground vault. The wall and pit MIUs shall have a fully-potted, submersible design.

The MIU shall operate within FCC Part 15.247 regulations for devices operating in the 902 MHz to 928 MHz unlicensed band. The output power of the devices will be governed by their conformance to these relevant FCC standards. The MIU shall transmit using the frequency hopping, spread spectrum technique comprised of alternating pseudo-random frequencies within the 902 MHz to 928 MHz unlicensed band. The System shall not require any special

licensing, including licenses from the FCC, and must be expandable at any time without getting authorization from the FCC.

No wake-up tone shall be necessary. No MIU programming shall be necessary for installation. The MIU shall be able to provide 8-digit reading resolution from absolute encoders using Sensus UI-1203 protocol in mobile as well as fixed network data collection applications, simultaneously, without need for programming.

The MIU shall read the encoded register at 15-minute intervals to provide accurate leak and reverse flow detection using 8-digit resolution reads. The MIU shall transmit readings from the encoder that are not older than 15 minutes. The MIU shall transmit the meter reading continuously at a predetermined transmission interval. The MIU shall transmit fixed network messages every 7½ minutes – standard. No programming shall be necessary to activate transmission of fixed network messages. The fixed network message shall include multiple meter readings for redundancy to improve read success rates. The MIU shall transmit mobile messages every 14 seconds – standard. No programming shall be necessary to activate or revert to transmission of mobile messages.

Power shall be supplied to the MIU by a lithium battery with capacitor. The number of radio-based meter reads performed must not affect the battery life. The battery life shall not be affected by outside erroneous wake-up tones (e.g., other water, gas, or electric utilities reading and therefore sending out a wake-up tone). The battery shall be a fully potted component of the MIU with no external wires.

Tamper – If wiring has been disconnected, a “non-reading” shall be provided indicating wire tamper; a reading that gives the last available reading is an incorrect reading.

Each device shall have unique preprogrammed identification numbers of ten (10) characters. ID numbers will be permanent and shall not be altered. Each device shall be labeled with the ID number in numeric and barcode form. The label shall also display FCC approval information, manufacturer’s designation, and date of manufacture.

The MIU shall transmit the encoder meter reading and a unique MIU ID number.

The MIU shall interface to Neptune ARB® V, ProRead™ E-Coder communication protocol absolute encoder registers via a 3-conductor wire without need for special configuration to the MIU.

Mounting brackets shall be included with each MIU. The bracket will clamp around the meter register to hold the MIU.

WALL UNIT

- The MIU housing shall be capable of mounting both indoors and outdoors on a wall or pole or attached directly to the meter. The device must be water resistant and capable of exposure to spray and splash. The device must be able to withstand a 200-hour salt fog test as specified in NEMA 4 standard.

- The device shall provide a location for a tamper-deterrent seal. Tampering with the device functions or connections shall not be possible without causing visible damage to the device exterior or to the seal.
- The device shall be capable of operating at temperatures of -22°F to +149°F (-30°C to +65°C) with operating humidity of 0 to 100% condensing.
- The circuit board and the battery will be protected by a potting material.
- The unit must retrofit to existing installations.
- The MIU device must be protected against static discharge without loss of data per IEC 801-2, issue 2.

PIT UNIT

- For pit or vault applications, the MIU antenna shall be designed to be installed through the industry standard 1¾" hole in the pit lid with no degradation of transmission range. The MIU antenna unit will be capable of mounting to various thicknesses of pit lids from ½" to 2½".
- The device shall be capable of operating at temperatures of -22°F to +149°F (-30°C to +65°C) and operating humidity of 0 to 100% condensing.
- The range will not be affected when the pit is flooded.
- The circuit board and the battery will be protected by a potting material.
- The antenna shall be made of a metallic and polymer material to withstand traffic and shall have a dual seal connection to the MIU housing.
- The MIU device must be protected against static discharge without loss of data per IEC 801-2, issue 2.

2.4 –BID ITEM 3,4,5,6 & 7 : Displacement Type Magnetic Drive Cold Water Meters

Meters shall be displacement type - magnetic drive 5/8" - 2". Meters must be manufactured in an ISO 9001 manufacturing facility and conform to the "Standard Specifications for Cold Water Meters" AWWA Standard C700 (latest revision) or as otherwise stated. Multi jet and single jet meters will not be accepted. All meters to be measuring flow in cubic feet.

TYPE

Only magnetic driven, positive displacement meters of the flat nutating disc type will be accepted.

SIZE, CAPACITY, LENGTH

- The size, capacity, and meter lengths shall be as specified in AWWA Standard C700 (latest revision). The maximum number of disc nutations is not to exceed those specified in AWWA C700 latest revision.
- The maincase and cover shall be cast from a NSF/ANSI 61 compliant and NSF/ANSI 372 certified durable lead free, high copper alloy. The serial number should be stamped between the outlet port of the maincase and the register. Maincase markings shall be cast raised and shall indicate size, model, direction of flow, and NSF 61 certification. Plastic maincases are not acceptable.
- Maincases for 5/8", 3/4" and 1" meters shall be of the removable bottom cap type with the bottom cap secured by four (4) bolts on 5/8" and 3/4" sizes and six (6)

bolts on the 1" size. Intermediate meter maincases shall also be made of the same lead-free brass material in sizes 1-1/2" and 2" with a cover secured to the maincase with eight (8) bolts. Meters with a frost plug, a screw-on design or no bottom cap shall not be accepted in 5/8"-1" sizes. The 5/8" meters shall have a cast iron bottom cap.

- All no lead maincases shall be guaranteed free from manufacturing defects in workmanship and material for the life of the meter.

BOLTS

All maincase bolts shall be of 300 series non-magnetic stainless steel to prevent corrosion.

MEASURING CHAMBER

- The measuring chamber shall be of a 2-piece snap-joint type with no fasteners allowed. The chamber shall be made of a non-hydrolyzing synthetic polymer.
- The control block shall be the same material as the measuring chamber and be located on the top of the chamber. The control block shall be located after the strainer.
- The measuring chamber outlet port shall be sealed to the maincase outlet port by means of an "O" ring gasket.
- The flat nutating disc shall be a single piece made from non-hydrolyzing synthetic polymer and shall contain a type 316 stainless steel spindle. The nutating disc shall be equipped with a synthetic polymer thrust roller located within the disc slot. The thrust roller head shall roll on the buttressed track provided by the diaphragm.
- The chamber shall be warranted for 10 years against freeze damage if the meter has been equipped with a frost proof cast iron or synthetic polymer bottom cap.

STRAINERS

All meters shall contain a removable polypropylene plastic strainer screen. The strainer shall be located near the maincase inlet port, before the measuring chamber. The strainer shall also function as the device that holds the measuring chamber in place within the maincase. Straps or other types of fasteners shall not be accepted.

PERFORMANCE

Each meter must be accompanied by a factory test tag certifying the accuracy at the flows required by AWWA C700.

All meters shall be warranted as follows:

Size	Low Flow Accuracy	Low Flow New Meter Accuracy	Low Flow Repaired Meter Accuracy
5/8"	1/8 gpm @ 95%	5 Yrs or 500 KGal	5-10 Yr or 1.5 MGal
3/4"	1/4 gpm @ 95%	5 Yrs or 750 KGal	5-10 Yr. or 2.3 MGal
1"	3/8 gpm @ 95%	5 Yrs or 1 MGal	5-10 Yr. or 3 MGal
1-1/2"	3/4 gpm @ 95%	2 Yrs or 1.6 MGal	10 Yrs or 5 MGal

Normal meter operating range shall be as follows:

<u>Size</u>	<u>Accuracy Range \pm</u>
<u>1.5%</u> 5/8"	1/2 - 20 gpm
3/4"	3/4 - 30 gpm
1"	1 - 50 gpm
1-1/2"	2 - 100 gpm

Bidder Information Response
Furnish and Deliver Water Meters
17DPW02

Legal Name of the Bidder: _____

Company Name: _____

Company Address: _____

City State Zip: _____

Company Web Address: _____

Company Telephone: _____ Company Fax number: _____

State of Incorporation (Date): _____

If the bidder is a partnership, give full names and addresses of all partners; and if an individual, give residential address if different from business address.

Company Contacts - Required

Individual submitting the bid (this is the individual who should sign the Certificate of Good Faith):

Name: _____ Title: _____

Mailing Address _____

Telephone: _____ Fax number: _____

Email Address: _____

Individual to be contacted about the bid (if different from the individual submitting the bid):

Name: _____ Title: _____

Mailing Address _____

Telephone: _____ Fax number: _____

Email Address: _____

Best Times to Contact: _____

Individual authorized to contractually bind the company (This will be the individual whose name and title will appear in the contract documents and will execute the contract if the contract is awarded to the company):

Name: _____ Title: _____

Mailing Address _____

Telephone: _____ Fax number: _____

Email Address: _____

Best Times to Contact: _____

CERTIFICATE OF GOOD FAITH

The undersigned hereby certifies that s/he will comply with all laws and regulations applicable to awards made subject to Massachusetts General Laws, Chapter 30B.

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature of individual submitting the bid or proposal

Individual Full Name (Print/Type)

Name of Business (Print/Type)

(Date)

Two Witnesses or Notary

Witness One Signature

Witness Two Signature

Witness One Full Name (Print/Type)

Witness Two Full Name (Print/Type)

Witness One Primary Address

Witness Two Primary Address

OR

Commonwealth of Massachusetts

County of _____

On this _____ day of _____, 20____, before me, the undersigned notary public, personally appeared _____ (name of document signer), proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

☐ as partner for _____, a partnership.

☐ as _____ for _____, a corporation.

☐ as attorney in fact for _____, the principal.

☐ as _____ for _____, (a) (the) _____.

(official signature and seal of notary)

My commission expires: _____

This form must be completed and filed with bid submission

CERTIFICATE OF COMPLIANCE WITH MASSACHUSETTS TAX LAWS

Certificate of Good Standing issued by the Massachusetts Department of Revenue dated no earlier than 90 days before the bid submission deadline may be submitted in place of this certificate.

Pursuant to Massachusetts General Laws, chapter 62C, section 49A, the undersigned acting on behalf of the Bidder*, certify under the penalties of perjury that to my best knowledge and belief, the Bidder* is in compliance with all laws of the Commonwealth relating to taxes, reporting of employees and Bidders, and withholding and remitting child support.

Individual

Signature

Date

Name (please type or print)

Social Security Number

Corporate

Corporate Name (please type or print)

Signature of Corporate Officer

Date

Name of Corporate Officer (please type or print)

Title (please type or print)

Taxpayer Identification Number

** As used in this certification, the word "Bidder" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals*

This Form or Certificate of Good Standing issued by the Massachusetts
Department of Revenue is to be filed with the bid submission.

CERTIFICATE OF AUTHORITY

1. I hereby certify that I am the Clerk/Secretary of _____
(Insert full name of Corporation)

2. corporation, and that _____
(Insert the name of officer who signed the **contract and bonds**)

3. is the duly elected _____
(Insert the title of the officer in line 2)

4. of said corporation, and that on _____
(The date must be **ON OR BEFORE** the date the officer signed the **contract and bonds**.)

at a duly authorized meeting of the Board of Directors of said corporation, at which all the directors were present or waived notice, it was voted that

5. _____ the _____
(Insert **name** from line 2) (Insert **title** from line 3)

of this corporation be and hereby is authorized to execute contracts and bonds in the name and on behalf of said corporation, and affix its Corporate Seal thereto, and such execution of any contract of obligation in this corporation's name and on its behalf, with or without the Corporate Seal, shall be valid and binding upon this corporation; and that the above vote has not been amended or rescinded and remains in full force and effect as of the date set forth below.

6. ATTEST: _____ AFFIX CORPORATE
(Signature of **Clerk or Secretary**)* SEAL HERE

7. Name: _____
(Please print or type name in line 6)*

8. Date: _____
(Insert a date that is **ON OR AFTER** the date the officer signed the **contract and bonds**.)

* The name and signature inserted in lines 6 & 7 must be that of the Clerk or Secretary of the corporation.

Bid Price Form

Furnish and Deliver Water Meters 17DPW02

The Bid Form or an exact copy is to be signed by the individual authorized to negotiate for and contractually bind the Bidder. Failure to fully complete the form, provide the requested information, or make any alterations may be considered a conditional bid. Conditional bids will be rejected.

All questions must be answered, and the data given must be clear and comprehensive. Please type or print legibly. If necessary, add additional sheets if needed. This information will be utilized by the Town for purposes of determining bidder responsiveness and responsibility with regard to the requirements and specifications of the Contract.

The bidder agrees with submission of this bid that the offer is effective for (a) at least ninety (90) calendar days from the opening date of the bids (b) a contract is executed, or (c) this bid is cancelled, whichever of (a), (b), or (c) occurs first.

	Year 1: March 1, 2017 - December 31, 2017					
	Description	Unit	Unit Price	Est. Qty.		Estimated Cost (Unit Price x Est. Qty.)
1	MIU - Wall Unit	each	\$	X	150	\$
2	MIU - Pit Unit	each	\$	X	1	\$
3	Displacement Type Meter 5/8"	each	\$	X	100	\$
4	Displacement Type Meter 3/4"	each	\$	X	5	\$
5	Displacement Type Meter 1"	each	\$	X	5	\$
6	Displacement Type Meter 1 1/2"	each	\$	X	3	\$
7	Displacement Type Meter 2"	each	\$	X	7	\$
	Year 1 Total Items 1 Through 7					\$

	Year 2: January 1, 2018 - December 31, 2018					
	Description	Unit	Unit Price	Est. Qty.		Estimated Cost (Unit Price x Est. Qty.)
1	MIU - Wall Unit	each	\$	X	300	\$
2	MIU - Pit Unit	each	\$	X	1	\$
3	Displacement Type Meter 5/8"	each	\$	X	150	\$
4	Displacement Type Meter 3/4"	each	\$	X	5	\$
5	Displacement Type Meter 1"	each	\$	X	5	\$
6	Displacement Type Meter 1 1/2"	each	\$	X	3	\$
7	Displacement Type Meter 2"	each	\$	X	2	\$
	Year 1 Total Items 1 Through 7					\$

	Year 3: January 1, 2019 - December 31, 2019					
	Description	Unit	Unit Price	Est. Qty.		Estimated Cost (Unit Price x Est. Qty.)
1	MIU - Wall Unit	each	\$	X	300	\$
2	MIU - Pit Unit	each	\$	X	1	\$
3	Displacement Type Meter 5/8"	each	\$	X	150	\$
4	Displacement Type Meter 3/4"	each	\$	X	5	\$
5	Displacement Type Meter 1"	each	\$	X	5	\$
6	Displacement Type Meter 1 1/2"	each	\$	X	3	\$
7	Displacement Type Meter 2"	each	\$	X	1	\$
	Year 1 Total Items 1 Through 7					\$

Bidder Name: _____

Bidder Acknowledges Addenda# _____