

Legal Notice

Sealed bids will be received at the Office of the Mayor, Medina City Municipal Building, located at 132 North Elmwood Ave., Medina, Ohio until 10:00 a.m. (Ohio time) on March 10, 2015 for the purchase of Service Department materials for the City of Medina located at 132 North Elmwood Ave., in the City of Medina, Ohio according to the specifications on file in the Office of the Mayor and available to all prospective bidders.

All bids must be accompanied by a Bid Bond or Certified Check payable to the order of the City of Medina, Ohio, in the sum of ten percent (10%) of the bid amount as a guarantee that if such bid is accepted, the bidder will deliver the materials according to the given specifications or in default thereof, said check will be forfeited to the City of Medina as liquid damages.

The City of Medina reserves the right to reject any and all bids and to waive any informality in the bidding process.

Signed: Nino Piccoli, Service Director

Gazette:

February 24, 2015

March 3, 2015

WATER METER SPECIFICATIONS
FOR
COLD WATER METERS—DISPLACEMENT TYPE
WITH ECR ENCODER TYPE REMOTES
5/8" – 1" SIZES

TYPE

Magnetic Drive, Sealed Register, Positive Displacement Type Cold Water Meters. Meters must be compatible with the Sensus Automatic Meter Reading System.

Meters shall be used for indicating the consumption of water and cover the type of meter known as cold water meter of the piston type. The meters shall meet the following specifications. Failure to meet any part of the specification shall be sufficient cause for rejection.

In submitting proposals, bidders are requested to bid only on what they consider their first-line meters and not on the so-called competitive type meters. The Medina Water Department reserves the right to decide whether, in its judgment, meters are first-line or so-called competitive meters. No bid will be considered on meters of a design which has not been listed for at least two years in the catalog regularly issued by the manufacturer.

SIZE

Must conform to American Water Works Standard C-700 as most recently revised.

LENGTH

Must conform to American Water Works Standard C-700 as most recently revised

CASES

All meters shall conform to NSF Standard 61 (Annex F and G) and NSF Standard 372 (Reduction of Lead in Drinking Water Act).a non-corrosive. All meters shall have the size and direction of water flow through the meter clearly indicated. The manufacturer's serial number must be permanently affixed to the maincase to aid in identification and must be visible so that it can be read from directly above the water meter.

EXTERNAL BOLTS AND WASHERS

All external bolts and washers shall be of corrosion resistant material and be easily removed from the maincase. All threaded maincase bolt holes must be covered, to aid in removal of the bolts for repair.

ENCODER REGISTER AND REMOTES

Must conform to American Water Works Standard C-700 as most recently revised.

METER TRANSCIEVER UNIT

The register must be of the straight reading type and have a full test dial on the face of the register. It shall read in cubic feet and be capable of direct visual reading at the meter and by remote reading utilizing a Meter Transceiver unit (MXU) for use with an Automatic Meter Reading (AMR) system. All reduction gearing shall be contained in a permanently hermetically sealed, tamperproof enclosure made of a corrosion resistant material.

The register shall be attached to the meter utilizing a bronze or plastic bonnet register box. The register must be field replaceable by utility personnel with the use of a manufacturer-supplied field tool. The field tool must not be commercially available. Seal wiring or a frangible head seal screw is not acceptable.

The meter register shall be provided with three terminal connections. The connection between the meter register and the TouchPad shall be accomplished with the use of only two terminal connections. The register shall transmit the meter reading and register identification number directly to the interrogation device.

For installations where moisture is not a concern, the terminal connections shall be protected with a dust cover on the register. The dust cover will be of a snap-on configuration not requiring screws and be equipped with seal wire holes for security. When the meter is to be installed in a vault or pit set installation, the terminal connections shall be permanently factory sealed to three wire interconnecting cable with an environmentally approved epoxy to prevent moisture penetration and eliminate the need for field sealing requirements.

The register output data format shall be 7-bit ASCII (American Standard Code for Information Interchange) digital, plus an even parity bit. Upon interrogation with a AMR, the register will transmit a 4-digit or 6-digit odometer reading (customer specified) and an 8-digit register identification number. The register identification number is to be factory set and non-programmable so as to protect the integrity of the system by eliminating possible programming duplication of the identification number in the field. The 4-digit or 6-digit meter reading is to be interrogated from the register by direct contact of the register's odometer wheels to a circuit board which encodes the meter reading to the interrogation device. Data is to be positive true. (The register's ASCII digital output is to be capable of interfacing directly to an AMR transponder to transmit data via radio signal to an AMR system.)

MEASURING CHAMBER

The measuring chamber shall be a suitable synthetic polymer and shall not be cast as part of the maincase. All assemblies shall be interchangeable in all measuring chamber assemblies of the same size. The measuring chamber piston shall operate against a replaceable control roller, allowing for repair to AWWA standards. The control roller shall rotate on a stainless measuring chamber steel pin, to provide added strength, wear resistance and corrosion resistance. There shall be an elastomeric seal or seals between measured and unmeasured water, preventing leakage around the measuring element.

MAGNETIC COUPLING

The motion of the piston will be transmitted to the sealed register through the use of a magnetic coupling.

STRAINERS

All meters must be provided with a corrosion resistant strainer, with an effective straining area at least twice the bore diameter which can be easily removed from the meter without the meter itself being disconnected from the pipeline.

CHANGE GEARS

Change gears will not be allowed to calibrate the meter. All registers of a particular registration and meter size shall be identical and completely interchangeable. Should meters arrive with registers containing more than one gear combination, the entire shipment will be returned to the manufacturer freight collect and the next responsible bidder will receive the award.

ACCURACY AND HEADLOSS TESTS

Meters shall conform to current AWWA C-700, current revision, test flows, head loss and accuracy standards.

PRESSURE CAPABILITY

Meters shall operate up to a working pressure of 150 pounds per square inch (psi), without leakage or damage to any parts. The accuracy shall not be affected when operating at this pressure due to possible distortion. Accuracy shall not be affected by variations in pressure up to 150 psi.

PERFORMANCE WARRANTIES

In evaluating bid submittals, warranty coverage will be considered. All bidders are required to submit their most current nationally published warranty statements for water meter maincases, encoder registers and measuring chambers.

SHIPMENT VERIFICATIONS

A statistically controlled sample of each meter shipment will be tested by the utility to insure each shipment meets the utility performance and materials specifications.

CITY OF MEDINA, OHIO
PROPOSAL FOR
2015 METER REQUIREMENTS

DATE: _____

To the Mayor and Service Director
Municipal Building
132 North Elmwood Avenue
Medina, Ohio 44256

Gentlemen:

The undersigned proposes to furnish the following Cold Water Meters to the City of Medina, Ohio, during the year 2014 at the following unit prices listed below and meeting the specifications attached hereto:

A. COLD WATER METERS (DISPLACEMENT TYPE WITH ECR)

5/8" X 1/2" With connection (Approx. 200)	@ \$ _____ each
Without Connection	@ \$ _____ each
3/4" With connection	@ \$ _____ each
Without connection	@ \$ _____ each
1" With connection	@ \$ _____ each
Without connection	@ \$ _____ each
1 1/2" With Brass Elliptical Flange Connection	@ \$ _____ each
Without Elliptical Flange Connection	@ \$ _____ each
2" With Brass Elliptical Flange Connection	@ \$ _____ each
Without Elliptical Flange Connection	@ \$ _____ each

1) METER TRANSCIEVER UNIT (MXU)

Priced separately for ordering purposes

Single port	@ \$ _____ each
Dual port	@ \$ _____ each

B. COLD WATER METERS (ELECTROMAGNETIC FLOW TYPE WITH ECR)

5/8" X 1/2" With connection (Approx. 200)	@ \$_____ each
Without Connection	@ \$_____ each
3/4" With connection	@ \$_____ each
Without connection	@ \$_____ each
1" With connection	@ \$_____ each
Without connection	@ \$_____ each

C. COLD WATER METERS MAGNETIC DRIVE COMPOUND

1 1/2" Compound	@ \$_____ each
2" Compound	@ \$_____ each
3" Compound	@ \$_____ each
4" Compound	@ \$_____ each
6" Compound	@ \$_____ each
8" Compound	@ \$_____ each
10" Compound	@ \$_____ each

D. COLD WATER METERS MAGNETIC DRIVE FOR FIRE SERVICE UL/FM APPROVED WITH STRAINER

4"	@ \$_____ each
6"	@ \$_____ each
8"	@ \$_____ each
10"	@ \$_____ each

WATER METER SPECIFICATIONS
FOR
COLD WATER METERS—ELECTROMAGNETIC FLOW TYPE
WITH ECR ENCODER TYPE REMOTES
5/8" – 1" SIZES

TYPE

Solid state, battery operated electromagnetic flow measurement system with a hermetically sealed, glass covered, electronic register with a programmable 9-digit display.

CONFORMANCE TO STANDARDS

Must conform to American Water Works Standard C-700 and C-710 as most recently revised with respect to accuracy and pressure loss requirements, or other appropriate American Water Works Standard. Must be compliant with ANSI/NSF Standard 61 Annex G.

REGISTER

The register must be an electronic device encapsulated in glass with 9 programmable digits utilizing a liquid crystal display (LCD). It will have indicators for flow direction, empty pipe, battery life and unit of measurement. The register must be hermetically sealed with a heat tempered glass cover and be tamper resistant. The register shall not be removable from the measuring sensor. The register shall utilize a magnetic coupling technology to connect to a touch read, radio read or fixed base meter reading system in either an inside or pit set installation.

MEASURING ELEMENT

The measuring element shall be made of a noncorrosive, lead-free glass fiber reinforced, PPS (polyphenylene sulfide) based resin. A battery powered magnetic flow sensor utilizing silver/silver chloride electrodes will be utilized to measure the velocity of the water which is linearly proportional to the volume. The measuring element will have no moving parts and will be specific for each size.

EXTERNAL HOUSING

The register and measuring element will be an integrated unit housed within a thermal plastic external casing. This integrated unit will not be removable from the external housing. The systems shall have the size and direction of water flow through the system imprinted on the external housing.

STRAINERS

Each system must be provided with a replaceable, corrosion-resistant synthetic polymer strainer screen.

ACCURACY AND HEADLOSS TESTS

Systems shall conform to current AWWA C-700 and C-710, current revision, or other appropriate American Water Works Standard, test flows, head-loss and accuracy standards.

PRESSURE CAPABILITY

System shall operate up to a working pressure of 200 pounds per square inch (psi), without leakage or damage to any parts. The accuracy shall not be affected by variation of pressure up to 200 psi.

PERFORMANCE WARRANTIES

In evaluating bid submittals, warranty coverage will be considered. All bidders are required to submit their most current nationally published warranty statements for water meter maincases, registers and measuring chambers.

SHIPMENT VERIFICATIONS

A statistically controlled sample of each shipment will be tested by the utility to insure each shipment meets the utility performance and materials specifications.

WATER METER SPECIFICATIONS

FOR

COLD WATER METERS—COMPOUND/TURBINE - TYPE WITH ECR ENCODER TYPE REMOTES 1 1/2" – 10" SIZES

TYPE

Direct Magnetic Drive, Sealed Register, Compound Type Cold Water Meters. Meters must be compatible with the Sensus Automatic Meter Reading System.

Meters shall be used for indicating the consumption of water and cover the type of meter known as cold water meter of the compound/turbine type. The meters shall meet the following specifications. Failure to meet any part of the specification shall be sufficient cause for rejection.

In submitting proposals, bidders are requested to bid only on what they consider their first-line meters and not on the so-called competitive type meters. The Medina Water Department reserves the right to decide whether, in its judgment, meters are first-line or so-called competitive meters. No bid will be considered on meters of a design which has not been listed for at least two years in the catalog regularly issued by the manufacturer.

SIZE

Must conform to American Water Works Standard C-700 as most recently revised.

LENGTH

Must conform to American Water Works Standard C-700 as most recently revised

CASES

All meters shall conform to NSF Standard 61 (Annex F and G) and NSF Standard 372 (Reduction of Lead in Drinking Water Act).a non-corrosive. All meters shall have the size and direction of water flow through the meter clearly indicated. The manufacturer's serial number must be permanently affixed to the maincase to aid in identification.

EXTERNAL BOLTS AND WASHERS

All external bolts and washers shall be of corrosion resistant material and be easily removed from the maincase. All threaded maincase bolt holes must be covered, to aid in removal of the bolts for repair.

ENCODER REGISTER AND REMOTES

The electronic register shall be hermetically sealed with an electronic pickup containing no mechanical gearing. It shall have a large character LCD that displays AMR, totalization and a resettable test totalizer. The AMR resolution shall be fully programmable. The LCD shall also display flow direction. The battery shall have a 10 year life guarantee.

MEASURING CHAMBER

The measuring chamber shall be a suitable synthetic polymer and shall not be cast as part of the maincase. The measuring chamber shall consist of a measuring element, removable housing, and all-electronic register. The measuring element shall be mounted on a horizontal stationary stainless steel shaft with sleeve bearings and be essentially weightless in water. All assemblies shall be interchangeable in all measuring chamber assemblies of the same size. There shall be an elastomeric seal or seals between measured and unmeasured water, preventing leakage around the measuring element.

MAGNETIC COUPLING

The direct magnetic drive shall occur between the motion of the measuring element blade position and the electronic register. Any and all additional intermediate, magnetic or mechanical, drive couplings are not acceptable.

STRAINERS

All meters must be provided with a corrosion resistant strainer, with an effective straining area at least twice the bore diameter and be a V-shaped configuration for the purpose of maintaining a full unobstructed flow pattern.

STRAIGHTENING VANES

A straightening vane assembly is mandatory and shall be positioned directly upstream of the measuring element. The straightening vane assembly shall be an integral component of the measuring chamber.

ACCURACY AND HEADLOSS TESTS

Meters shall conform to current AWWA C-700, current revision, test flows, head loss and accuracy standards.

PRESSURE CAPABILITY

Meters shall operate up to a working pressure of 150 pounds per square inch (psi), without leakage or damage to any parts. The accuracy shall not be affected when operating at this pressure due to possible distortion. Accuracy shall not be affected by variations in pressure up to 150 psi.

PERFORMANCE WARRANTIES

In evaluating bid submittals, warranty coverage will be considered. All bidders are required to submit their most current nationally published warranty statements for water meter maincases, encoder registers and measuring chambers.

SHIPMENT VERIFICATIONS

A statistically controlled sample of each meter shipment will be tested by the utility to insure each shipment meets the utility performance and materials specifications.

CITY OF MEDINA, OHIO**PROPOSAL FOR****2015 METER REQUIREMENTS FOR CLASS II
TURBINE TYPE METERS WITH ECR REGISTER**

DATE: _____

To the Mayor and Service Director
Municipal Building
132 North Elmwood Avenue
Medina, Ohio 44256

Gentlemen:

The undersigned proposes to furnish the following Cold Water Meters to the City of Medina, Ohio during the year 2014 at the following unit prices listed below and meeting the specifications attached hereto:

A. CLASS II TURBINE TYPE METERS WITH ECR REGISTER

1-1/2"	With Connection	@ \$_____ each
	Without Connection	@ \$_____ each
2"	With Connection	@ \$_____ each
	Without Connection	@ \$_____ each
3"	Without Connection	@ \$_____ each
4"	Without Connection	@ \$_____ each
6"	Without Connection	@ \$_____ each
8"	Without Connection	@ \$_____ each
10"	Without Connection	@ \$_____ each

The above prices based F.O.B. Medina, Ohio

The City of Medina reserves the right to reject any and all bids.

Signed By: _____

Title: _____

Company: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone: _____