

INVITATION TO BID

Notice is hereby given that sealed bids will be received by the Jackson County Utility Authority until 10:00 a.m., February 1, 2012 at the Authority office, 1225 Jackson Avenue, Pascagoula, MS 39567 (Phone: 228-938-6809, ext. 303) for the purchase of water service valves and appurtenances.

Complete specifications may be obtained from the Authority's office on request or may be inspected between 8:00 a.m. and 4:00 p.m., Monday through Friday at the above address.

Run: 01/12/12 and 01/19/12

Bill: Address in Ad.

**BID REQUIREMENTS AND SPECIFICATIONS
FOR
WATER VALVES AND APPURTENANCES**

Bid Requirements

The Jackson County Utility Authority is accepting sealed bids for water valves and appurtenances.

Bids will be accepted until **10:00 a.m. on February 1, 2012**, then opened and read aloud shortly thereafter.

Bids must be in a sealed envelope addressed to the Jackson County Utility Authority, 1225 Jackson Avenue, Pascagoula, MS 39567, and **must be clearly marked on the outside of the envelope:**

“WATER VALVES AND APPURTENANCES - DO NOT OPEN”

Delivery is the sole responsibility of the bidder. The Authority is not responsible for lost, misdirected, or late mail.

Submission of a bid proposal constitutes agreement on the part of the Bidder to all aspects of the requirements and specifications of this document.

All bids must be submitted on the attached bid form, and must be signed and dated. Bid shall include a manufacturer's material specification for each material being submitted for bid. Bidder shall enter the delivery time required for each item being bid to the nearest whole day. Delivery time shall be defined as the time required (in calendar days) to deliver the requested material to the Authority from the date the request for material is sent to the Supplier.

It is the intent of the Authority to award the bid to the bidder providing the lowest and best bid. Delivery time is weighted heavily in the selection of best bid.

The Authority reserves the right to reject any and/or all bids received.

It shall be incumbent upon the bidders to understand the specifications. Requests for clarifications shall be in writing and shall be submitted to the Authority at least five (5) days prior to the time and date set for the bid opening. The specifications and conditions of this bid are intended to promote competition to the maximum extent practicable. It is the responsibility of the bidder to notify the Authority's Purchasing Agent of restrictive competition. The notice of restrictive specifications/conditions must be submitted to the Authority at least five (5) days prior to the bid opening. Failure to conform to this requirement may be cause for a protest to be rejected.

The Authority intends to enter into a contract for the purchase of water valves and appurtenances for one (1) year, with a one (1) year option to renew. The bid prices shall remain in effect for the one (1)

year contract and the one (1) year option to renew.

Bid items shall be quoted per each, which shall include all costs associated with the purchasing of these items including delivery cost. The Bid will be awarded on an “all or none” basis.

Specification sheets shall be provided with your bid, if bidding other than requirements set forth in Section 0210 Water Valves and Appurtenances – Water and Sewer Standard Specifications.

Deliveries shall be made upon request, and the vendor shall invoice the Authority for each of the separate deliveries and reference the purchase order number assigned. Invoice shall reflect the bid price for the each unit and the total amount of each delivery. No additional amount will be paid by the Authority.

All deliveries shall be FOB Jackson County Utility Authority, 11028 Hwy 57, Vancleave, MS 39565 between the hours of 8:00 a.m. and 3:00 p.m., Monday through Friday. Two business day’s notice is required for deliveries. The Supplier shall provide equipment and personnel necessary to handle the materials and remove them from the delivery truck using methods recommended by the material manufacturer to prevent damage to the materials or surrounding surfaces. No delivery shall be removed from the truck prior to authorized personnel reviewing the delivery ticket and accepting the condition and quantity of the materials for delivery. **All items for delivery shall be marked using item numbers as listed on the “Items for Bid” list.**

If the successful Bidder fails to provide required units or fails to correct problems within fifteen (15) days of notification by the Authority of such problems, the Jackson County Utility Authority reserves the right to cancel the proposed contract with thirty (30) days written notification by the Authority to the Bidder.

In the event the successful bidder fails to provide commodities contained in his bid for reasons beyond his control, purchases of such commodities shall be made by the Authority from one (1) of the bidders whose bid was accepted as an alternate. The successful bidder shall provide written response with delivery date of requested materials to the Authority within 2 business days of the request of materials. Failure to respond to the request shall signify the successful bidder cannot deliver the materials and the Authority will request materials from an alternate bidder.

Questions may be directed to Beverly Dennis in the Authority’s Purchasing office by calling 228-938-6809, ext. 303.

BID FORM

TO: JACKSON COUNTY UTILITY AUTHORITY
1225 JACKSON AVENUE
PASCAGOULA, MS 39567

BIDDER: _____

ADDRESS: _____

TELEPHONE: _____

DATE: _____

BIDDER'S SIGNATURE: _____

BIDDER'S NAME (Type or Print): _____

SECTION 0210
WATER VALVES AND APPURTENANCES

JACKSON COUNTY UTILITY AUTHORITY
WATER AND SEWER STANDARD SPECIFICATIONS

PART 1 – GENERAL

1.01 Description

These Specifications shall govern the furnishing of water valves and appurtenances for the Authority. The valves and appurtenances shall be of the classes, sizes, and dimensions shown thereon.

1.02 Quality Assurance

- A. Source Quality Control: Obtain valves and fittings from no more than one manufacturer.
- B. Reference Standards: The work, materials and related activities shall be in accordance with the latest standards of the American Water Works Association (AWWA), American National Standards Institute (ANSI), American Society for Testing and Materials (ASTM), Uni-Bell Pipe Association, Mississippi Department of Health, Mississippi Department of Environmental Quality, and any other related State or Federal standards or requirements.
- C. The valves and appurtenances shall be delivered to the Authority sealed in packaging, as recommended by the manufacturer, for long term storage of the materials in a covered shop building.

PART 2 – MATERIALS

2.01 Materials

- A. General: All valves and appurtenances shall have manufacturer's name and working pressure cast in raised letters on valve body. All exposed valves shall be flanged with ends conforming to ANSI B16.1 Class 125. 1. All bolts, nuts, and studs on or required to connect buried or submerged valves shall be stainless steel. Bolts and nuts shall have hexagon heads and nuts. Gasket material and installation shall conform to manufacturer's recommendations.
- B. Water Service:
 - 1. General: All brass components in contact with potable water must be made from either CDA/UNS Brass Alloys C89520 or C89833 with a maximum lead content of 0.25% by weight. Brass saddles shall be made from CDA/UNS C83600.
 - 2. Service Saddle: Shall be No-Lead Brass saddle per ASTM B62 and ASTM B584 in accordance with AWWA C800. Saddle shall have double 18-8 type 304 stainless steel straps or band and EPDM rubber gasket per ASTM D2000 as manufactured by Ford Meter Box Company, Inc. Style 202BS, Mueller BR2 (brass) or equal. Saddle shall have female threaded connection AWWA (CC).
 - 3. Corporation Stop: Corp Stop shall be a ball type valve and comply with AWWA C800 and be made of No-Lead Red Brass. The end connections shall be male tapered AWWA (CC) thread by pack joint with stainless steel insert for connection to water service pipe per Specification 0200. Corporation stop shall be manufactured by Ford Meter Box Company, Inc. Style FB1000 series, Mueller

- 300 series, or equal.
4. Curb Stop: Curb stop shall be a straight ball meter valve and comply with AWWA C800 and be made of No-Lead Brass. Tee head shall be capable of rotating a full 360 degrees. The operating nut shall be lockable. The end connections shall be pack joint for connection to water service pipe per Section 0200 and meter swivel nut. For services with meters larger than one (1) the curb stop shall have pack joint by flanged or MIP connection. Curb stop shall be manufactured by Ford Meter Box Company, Inc., model Ball Meter Valve, Mueller, model P-24350/24335 or equal.
 5. Nipples: Shall be schedule 40, No-Lead Brass and rated for 150 psi working pressure.
 6. Coupling: Shall be No-Lead Brass and used for connecting valves to water service pipe with MIP by pack joint end connections. Shall include a stainless steel insert. Couplings shall be manufactured by Ford Meter Box Company, Inc., Mueller, or equal.
 7. Meter Box:
 - a. Non-Traffic Rated: Shall be NDS D1200 for automatic meter reading or approved equivalent. Box and cover must be polypropylene material with a minimum body and cover thickness of 0.25". Meter box shall be capable of housing curb stop, straight style dual check valve, water meter and pressure reducing valve (where required). Cover shall have cast iron flip lid.
 - b. Traffic Rated: Shall be fiberglass box rated for vehicular traffic loadings and sized to fit the meter, curb stop, check valve and pressure reducing valve (where required). Cover shall be polymer concrete with cast iron flip lid for viewing the meter. Box and cover shall be Quazite, CDR, Pentek, or equal.
 - c. Standard Size: 13" width x 19" length x 12" height (minimum dimensions)
 - d. Jumbo Size: 17" width x 30" length x 12" height (minimum dimensions)
- C. Fire Hydrants: Hydrants shall conform to AWWA C502. Main valve shall be 5 ¼ inches with compression type closing utilizing water pressure for positive sealing. Valve shall open left (counter clockwise). Hydrant shall have two 2 1/2 inches hose connections and one 4 ½ inches hose connection including matching chained caps for each opening. Threads shall be National Standard unless otherwise specified by the Local Fire Department. The inlet connection shall be buried with a minimum of four (4) feet cover. The hydrant shall be operated with a 1 ½ inch (point to flat) pentagon operating nut. Hydrant shall include a ground line breakable component that will shear off upon impact at the ground line without damage to the barrel and a stainless steel safety stem coupling that will separate upon impact. Hydrant shall have two drain valves and at least two drain openings. Hydrant Nozzle shall be placed 18 inches from the ground line complying with NFPA Handbook. Hydrant spacing shall not exceed 500 ft. spacing without approval from the Authority and Fire Marshall. Hydrants shall be painted in accordance with manufacturer's recommendations to the color determined by the local fire agency. Hydrants shall be Mueller Super Centurion 250 (A-423) or approved equal.
- D. Gate Valve: Valves shall be resilient seat, non-rising stem type with cast iron body and bonnet complying with AWWA C509. Valves shall turn left (counter clockwise) to open and the valve body shall indicate the direction of operation. All buried valves shall include a 4 ½ inch diameter three piece adjustable cast iron valve box with stem extensions (as required), operating nuts, and heavy duty cast iron covers. Additional extensions may be required to the valve box as necessary to reach finished grade. Use of pipe material to extend box shall not be permitted. Exposed valves shall have flanged

ends conforming to ANSI B16.1, Class 125 and buried valves shall have mechanical joints per ANSI A21.11 (AWWA C111). Valves shall be located on all sides of any tee or cross connection and at a maximum spacing of 1000 linear feet for continuous runs of water main. Valves shall be M&H Style 4067 or approved equal

- E. Joint Restraints: Restraint shall be a mechanical restraint for connecting pipe to mechanical joint fittings. Restraint shall be made of ductile iron per ASTM A536 with type 304 stainless steel nuts and bolts and EPDM or Buna-N gaskets. Restraints shall be made with twist off nuts to insure proper actuating of the restraint to the type of pipe for which it is being used (i.e. ductile iron, PVC or HDPE). Restraints shall be manufactured by EBBA Iron, model Megalug, Mueller, model Aquagrip, or equal.
- F. Repair Coupling:
1. Pipes 10" and Larger (transmission mains): Coupling shall be a mechanical joint repair coupling (restrained) for connecting two straight sections of water mains. Sleeve shall be fusion bonded epoxy coated carbon steel per ASTM A283 or ductile iron with 18-8 type 304 stainless steel bolts and nuts. Glands/followers shall be coated ductile iron. Gaskets shall be SBR per AWWA C111. Coupling shall be rated for a minimum 150 psi working pressure. Coupling shall be EBBA 3800, Smith-Blair 470, or equal.
 2. Pipes 4" thru 8" (distribution mains): Coupling shall be as required for transmission mains. Except when axial restraint is not deemed necessary then coupling may be Hymax 2000, Ford Coupling, Smith-Blair 411, or equal.
 3. Pipes 3" and smaller (service lines): Coupling shall be made of brass with pack joint by pack joint for end connections for CTS HDPE water service pipe. Each coupling shall be provided with two stainless steel inserts. Couplings shall be Ford Pack Joint Coupling, Mueller, or equal.
- G. Bell Joint Leak Clamp may be used when a joint is leaking but there is no axial restraint necessary to keep the bell and spigot from separating. Clamp rings (bell and spigot ends) shall be split ring type for installation on existing pipe and made of ductile iron per ASTM 536 with a fusion bonded epoxy coating. Gaskets shall be a "kee-lok" type for installation on existing water main and made of Buna-N NSF61 approved. All nuts and bolts shall be stainless steel. Clamp shall be Smith-Blair model 274 or equal.
- H. Repair Clamp: Clamp shall be a full circle repair clamp. Band, bolts, nuts, and lugs shall be 304 Stainless Steel. Clamp gasket shall be virgin SBR or Buna-N for water service and be provide full 360 degree pipe coverage for the entire length of the clamp. Clamp shall be rated for 150 psi working pressure. Clamp shall be Ford FS series or equal for water mains and Smith and Blair 247 Redi-Clamp, Mueller 230 Mini-Band, or equal for water service pipe.
- I. Tapping Sleeve: Band, lugs, flange, and bolts and nuts shall be 304 Stainless Steel with flanged joint outlet for connection of a tapping valve. Nuts shall be coated to prevent galling. Sleeve shall have three quarter (3/4) inch test plug to ensure proper sealing before tapping-of main. Sleeve gasket shall be virgin SBR or Buna-N for water service and provide full 360 degree pipe coverage for the full length of the sleeve. Tapping valve shall have flanged and mechanical joint connections. Sleeve shall be rated for 150 psi working pressure. Sleeve shall be Mueller H-304, Ford FTSS, or equal. Connection to water main shall require written approval from the Authority.
- J. Electronic Marker Ball: All pressure pipelines shall include marker balls to precisely mark the location of underground utilities. Markers shall incorporate a different frequency for water and sewer facilities for identification. Markers shall be made of a watertight polyethylene shell colored blue for water. Active markers shall be programmable with a

unique 10 digit ID and 256 bits of memory. Memory shall be capable of containing 6 lines with 8 characters on each line and a 13 character descriptive label. Markers shall be 3M Model 1400 Series or compatible with the Authority's current Utility Marking System. Markers shall be installed in accordance with the manufacturer's recommendations.

**** END OF SECTION ****

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ITEMS FOR BID

Tapping Saddles				Bid Price	Delivery Time
Item #	Description	Tap Size	Tap Thread	(per each)	(days)
1	6" C900 PVC	1"	CC	\$	
2	8" C900 PVC	1"	CC	\$	
3	10" C900 PVC	1"	CC	\$	
4	10" C900 PVC	2"	CC	\$	
5	12" C900 PVC	1"	CC	\$	
6	12" C900 PVC	2"	CC	\$	
7	18" C905 PVC	1"	CC	\$	
8	18" C905 PVC	2"	CC	\$	

Corporation Stop				Bid Price	Delivery Time
Item #	Description	Size	Thread	(per each)	(days)
9	Corporation Stop	1"	CC	\$	
10	Corporation Stop	2"	CC	\$	

Meter Valve				Bid Price	Delivery Time
Item #	Description	Size	CTS Poly Connection	(per each)	(days)
11	Meter Valve	1"x3/4"	pack joint ²	\$	
12	Meter Valve	1"	pack joint ²	\$	
13	Meter Valve	2"	pack joint ²	\$	

Water Service Repair Clamp

Item #	Description	size	length
30	Clamp ¹	3/4"	6"
31	Clamp ¹	1"	6"
32	Clamp ¹	2"	6"

Water Main Repair Clamp

Item #	Description	Size
33	Repair Clamp ⁴	6"
34	Repair Clamp ⁴	8"
35	Repair Clamp ⁴	10"
36	Repair Clamp ⁴	12"
37	Repair Clamp ⁴	18"

Fire Hydrant Assembly

Item #	Description
38	Hydrant

Joint Restraint

Item #	Description	Size
39	Joint Restraint ^{3,4}	6"
40	Joint Restraint ^{3,4}	8"
41	Joint Restraint ^{3,4}	10"
42	Joint Restraint ^{3,4}	12"
43	Joint Restraint ^{3,4}	18"

Bid Price
(per each)

Delivery Time
(days)

\$	
\$	
\$	

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Repair Coupling			
Item #	Description	Size	
44	Repair Coupling ⁴	6"	
45	Repair Coupling ⁴	8"	
46	Repair Coupling ⁴	10"	
47	Repair Coupling ⁴	12"	
48	Repair Coupling ⁴	18"	

Bid Price	Delivery
(per each)	(days)
\$	
\$	
\$	
\$	
\$	

Gate Valves			
Item #	Description	Size	
49	Gate Valve ⁴	6"	
50	Gate Valve ⁴	8"	
51	Gate Valve ⁴	10"	
52	Gate Valve ⁴	12"	
53	Gate Valve ⁴	18"	

\$	
\$	
\$	
\$	
\$	

Bell Joint Leak Clamp			
Item #	Description	Size	
54	Bell Clamp ⁴	6"	
55	Bell Clamp ⁴	8"	
56	Bell Clamp ⁴	10"	
57	Bell Clamp ⁴	12"	

\$	
\$	
\$	
\$	

Total bid in words
\$

Items Notes

- ¹Item bid price shall be to supply part for either IPS or CTS outside diameter tubing, which shall be specified when ordered.
- ²Item shall include stainless steel insert for each pack joint in bid price.
- ³Item shall include stainless steel bolt pack and gasket in bid price.
- ⁴Item bid price shall be to supply part for either AWWA C900/C905 or Ductile Iron pipe, which shall be specified when ordered.