



HOPKINSVILLE WATER ENVIRONMENT AUTHORITY

Bid Packet:

FY 2022 - 2023

Sealed Bid # 2223-13

Construction Material for Water Main Extension to Ascend Elements

Bid Opening:

Thursday, March 9, 2023 @ 1:00 P.M. CST
401 East 9th Street, Hopkinsville, KY, 42240
HWEA Boardroom

BID PACKET

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IMPORTANT: In the event any of the documents are not enclosed, please advise the Purchasing Officer immediately.



INVITATION TO BID

Sealed bids for furnishing and delivering the following:

FY 2022 - 2023

Sealed Bid # 2223-13

Construction Material for Water Main Extension to Ascend Elements

will be received at HWEA's Main Office, 401 East 9th Street, P. O. Box 628, Hopkinsville, Kentucky, until 1:00 p.m., CST, on March 9, 2023, at which time the bids will be opened and read aloud publicly in the HWEA Board Room, at the same address.

The Bid Packet contains the Invitation to Bid, General Conditions, Specifications, and Detailed Specifications.

GENERAL CONDITIONS

1. INSTRUCTIONS, SPECIFICATIONS AND FORMS

Instructions, specifications and forms may be obtained via the HWEA website, in person, or by email from the HWEA Purchasing Officer at 401 East 9th Street, Hopkinsville, KY, 42240. Telephone number 270-887-2782, email jrenshaw@hwea-ky.com, or see our website at www.hwea-ky.com.

- (a) All bids shall be submitted on and in accordance with the attached Bid Form. The form shall be signed and dated in the appropriate space.
- (b) Each bid shall be submitted in a sealed envelope and clearly marked on the outside of the envelope with the following:

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Sealed Bid # 2223-13
Water Main Extension to Ascend Elements

- (c) If forwarded by mail, the sealed envelope containing the proposal must be enclosed in another envelope: FY 2022 - 2023 - SEALED BID # 2223-13 – CONSTRUCTION MATERIAL FOR WATER MAIN EXTENSION TO ASCEND ELEMENTS and shall be mailed to the HWEA Purchasing Officer, P.O. Box 628 Hopkinsville, KY 42241, allowing sufficient time for such mailing to reach this address prior to the scheduled closing time for receipt of bids.
- (d) Additional information or clarifications of any of the instructions or information contained herein may be obtained from the Purchasing Officer.
- (e) Any bidder or bidders finding any discrepancy in or omission from the specifications, in doubt as to their meaning, or believing that the specifications are discriminatory, shall notify the Purchasing Officer in writing within 5 days of the scheduled opening of bids. Exceptions as taken in no way obligates HWEA to change the specifications. The Purchasing Officer will notify all bidders in writing, of any interpretations made of specifications or instructions.
- (f) HWEA will assume no responsibility for oral instructions or suggestions. All official correspondence in regard to the specifications should be directed to and will be issued by the Purchasing Officer.

- (g) The successful bidder may have to purchase a City of Hopkinsville vendor's license prior to the official award of the bid, in order to meet the requirements of City of Hopkinsville ordinances.
- (h) Any bidder may withdraw their bid either in person or in writing at any time prior to the scheduled time for the receipt for bids. Withdrawals after the scheduled time for the receipt of bids will not be permitted.

2. AWARD OF CONTRACTS

- (a) The HWEA Board may award the contract to the bidder it finds to be the most responsive (considering price, time of delivery, compliance with specifications and past experiences) and not necessarily the lowest price. HWEA reserves the right to reject any and all bids.
- (b) All bids will be awarded based on the most current edition of HWEA's Purchasing Policy, as amended.
- (c) All bids will be judged on the basis of best buy to HWEA and compliance with the General Conditions and conformance with the bid specifications. HWEA reserves the right to reject any and all bids.
- (d) Any other considerations or basis for judgment will be stated in the specifications.
- (e) Unless otherwise stated, the Purchasing Officer reserves the right to award contracts or place orders to a single source or divide awards and orders or enact such combination which in his judgment, shall be in the best interest of HWEA.

3. DELIVERY

- (a) Item(s) shall be delivered F.O.B. destination with delivery costs and applicable charges to be included in the bid.

4. COMPETITION

In order to assure fair competition and to permit determination of the best bid:

- (a) The Detailed Specifications, which may include a name of any manufacturer, trade name, or manufacturer or vendor catalog number mentioned in the specifications or Bid Form is to designate a standard of quality and type and for no other reason.
- (b) Bids which show any omission, irregularity, alteration of forms, additions not called for, conditional or unconditional unresponsive bids, or bids obviously unbalanced may be rejected.
- (c) All bids shall be accompanied by such descriptive literature and documents as may be called for by the specifications or Bid Form.
- (d) Specifications provided are based on HWEA needs and uses, estimated costs of operation and maintenance, and other significant and / or limiting factors to meet HWEA requirements and shall be consistent with HWEA's policies. Minimum or maximum specifications where included, are not established arbitrarily to limit competition or to exclude otherwise competitive bidders.

5. DISPUTES

In cases of disputes, as to whether or not an item or service quoted or delivered meets specifications, the decision of the Purchasing Officer, or authorized representative shall be final and binding on all parties. The Purchasing Officer may request written recommendation of the head of the Department using the item.

6. EXCEPTIONS

The submission of a bid shall be considered an agreement to all the terms, conditions and specifications provided herein as listed in the various bid documents, unless specifically noted otherwise in the space provided on the Bid Form.

7. BID BINDING

Unless otherwise specified, all formal bids submitted shall be firm and irrevocable for a period of sixty (60) calendar days from the date of opening.

8. UNIT PRICING

Unless clearly shown on the Bid Form that it is the intent of the bidder that a reduced total price is being offered on the basis of receiving an award of all items covered by the total, any totals should be the actual sum of the extension of unit price(s), extended price(s), and/or total price(s). If a mistake is observed in arithmetic, unit prices govern and the bid will be refigured accordingly.

9. DELIVERY TIME

The bidder is to indicate on the Detailed Specification Form the approximate lead time on delivery.

10. WARRANTY

The material furnished in accordance with these specifications shall be guaranteed to be free from defect in workmanship, material, or equipment. Brass must also be free of lead.

SPECIFICATIONS

1. GENERAL SPECIFICATIONS

- (a) All items are to be equipped with all manufacturer's standard equipment as listed in the manufacturer's literature.
- (b) The items shall be manufactured in production and shall be of good listed quality as to workmanship and materials used.
- (c) The material furnished in this bid shall be produced by a domestic manufacturer. Domestic manufacturer means "any producer or manufacturer that produces materials / products in the United States of America."

2. INFORMATION TO BE FURNISHED BY BIDDER

- (a) Each bid shall have attached the following information:
 - 1. A copy of manufacturer's warranty.
 - 2. A copy of the complete descriptive literature to include operation, installation and maintenance instructions.

3. EXCEPTIONS

- (a) Major exceptions to these specifications or failure to submit requested information may be considered cause for rejection of the bid.

DETAILED SPECIFICATIONS

The following are minimum specifications for;

FY 2022 - 2023
Sealed Bid # 2223-13
Water Main Extension to Ascend Elements

BIDDER SPECIFICATIONS

Bidder is requested to indicate either by writing "Comply" or "Exceptions" whether his product meets the minimum specifications as listed on this opposite side. If "Exception" is written, please indicate in the space provided the deviation.

ANY AND ALL BIDS WHICH ARE RETURNED MUST HAVE THE FOLLOWING PAGES COMPLETED AND RETURNED OR BID MAY NOT BE CONSIDERED.

DETAILED SPECIFICATIONS FOR DUCTILE IRON PIPE

- Pipe shall have asphaltic coating on the exterior
- Pipe shall have a cement mortar lining on the interior
- Pipe shall include fastite or equal joint gaskets with grease and all other necessary accessories for proper installation
- Ductile Iron Pipe shall be Pressure Class 350, adequate for 350 psi (2413-kPa) operating pressure
- 16" Ductile Iron Pipe order shall contain Qty. 40 joints of gauged pipe for the total order
- The gauged pipe shall be marked accordingly to differentiate from non-gauge pipe
- Pipe shall be 18ft or 20ft lay length
- Tolerance of OD of spigot end shall be ± 0.06 inches for DI pipe below 12 inches
- Tolerance of OD of spigot end shall be between - 0.08 & + 0.05 inches for DI pipe 14-24 inches
- Pipe shall comply to NSF / ANSI 61 & 372
- Pipe shall be UL Listed
- Pipe shall be in accordance with ANSI / NSF 372
- Pipe shall be new and manufactured in the United States of America (USA)
- Pipe shall be cast, cleaned, lined, coated, tested and certified at a single manufacturing facility located in the United States of America (USA) with all manufacturing units contiguous to one another
- All gaskets used to seal pipe joints shall be manufactured in the United States of America (USA)
- An alternative thickness class or pressure class that is in stock will be accepted for bid, but a certified shop drawing of the pipe must be submitted with bid
- Pre-approved manufacturers are McWane Ductile, American Pipe and US Pipe

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
6" Ductile Iron Pipe OD 6.90 inches			
8" Ductile Iron Pipe OD 9.05 inches			
12" Ductile Iron Pipe OD 13.20 inches			
16" Ductile Iron Pipe OD 17.40 inches			

DETAILED SPECIFICATIONS FOR DUCTILE IRON RESTRAINED JOINT PIPE

- Pipe shall have asphaltic coating on the exterior
- Pipe shall have a cement mortar lining on the interior
- Pipe shall have retainer that ductile iron and designed for use with ductile iron only
- Pipe shall have a lock ring that is corrosion resistant alloy steel per ANSI A21.11
- Retainer shall have a spherical inside surface which engages the lock ring and segmented lugs which mate with lugs on the locking bell
- The retainer lock shall prevent rotation after assembly
- The lock ring shall be factory welded onto the plain end of the pipe
- Pipe shall have integrally cast ductile iron lugs on the bell end of the pipe
- Pipe shall have a retainer, retainer lock and roll pin furnished with lock ring
- Pre-approved restraint joint pipe products are Flex Ring®, TR Flex®, and Super-Lock®
- Ductile Iron Pipe shall be Pressure Class 350, adequate for 350 psi (2413-kPa) operating pressure
- Pipe shall be 18ft or 20ft lay length
- Tolerance of OD of spigot end shall be between - 0.08 & + 0.05 inches for DI pipe 14-24 inches
- Pipe shall comply to NSF / ANSI 61 & 372
- Pipe shall be UL Listed
- Pipe shall be in accordance with ANSI / NSF 372
- Pipe shall be new and manufactured in the United States of America (USA)
- Pipe shall be cast, cleaned, lined, coated, tested, and certified at a single manufacturing facility located in the United States of America (USA) with all manufacturing units contiguous to one another
- All gaskets used to seal pipe joints shall be manufactured in the United States of America (USA)

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
12" Ductile Iron Restrained Joint Pipe OD 13.20 inches			
16" Ductile Iron Restrained Joint Pipe OD 17.40 inches			

DETAILED SPECIFICATIONS FOR GATE VALVES

- Non-rising stem
- Meet or exceed ANSI/AWWA C515 Standard, UL 262 Listed, FM 1120/1130 Approved, and certified to ANSI/NSF 61 & 372
- Epoxy coating meet or exceed ANSI/AWWA C550 standard
- Iron wedge, symmetrical & fully encapsulated with molded rubber; no exposed iron
- Triple O-ring seal stuffing box
- 2" square wrench nut - open left
- 350 psig maximum working pressure, 700 psig static test pressure
- Designed for potable water applications
- 2" gate valves shall have a 2" threaded end dimensions that comply with ANSI B2.1
- 6" through 16" gate valves shall have a Mechanical Joint Ends
- Pre-approved valve is Mueller A-2361-23 gate valves for 6", 8", 12" & 16" gate valves
- Pre-approved valve is Mueller A-2362-8 gate valves for 2" threaded gate valves

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
2" Threaded Gate Valve			
6" MJ x MJ Gate Valve			
8" MJ x MJ Gate Valve			
12" MJ x MJ Gate Valve			
16" MJ x MJ Gate Valve			

DETAILED SPECIFICATIONS FOR FIRE HYDRANTS

- Meets ANSI/AWWA C502 standards
- Post type dry barrel design
- Dry top design with O-ring sealed reservoir
- Traffic feature with stainless steel safety stem coupling
- Compression type main valve
- Operating nut - open left
- Field replaceable hose and pumper nozzle
- Dual bronze drain valves
- 350 psig maximum working pressure, 700 psig static test pressure
- 5 1/4" main valve opening 3-way (2 hose nozzle / 1 pumper nozzle)
- Fire Hydrant shall have a mechanical joint shoe
- Fire Hydrant shall have a bury depth of 3' 6" (42")
- Barrell shall be yellow in color
- Designed for potable water applications
- Pre-approved fire hydrant is Mueller Super Centurion 250 psi A423

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
5 1/4" 3 Way Fire Hydrant w/ 6" Mechanical Joint Shoe – Yellow in Color, 3' 6" Bury			

DETAILED SPECIFICATIONS FOR RETAINER GLANDS

- Restraint Gland shall be for ductile iron pipe
- Gland body shall be made of high strength ductile iron per ASTM A536, Grade 65-45-12
- Restraint Glad shall be compatible with all mechanical joints conforming to ANSI / AWWA C111 / A21.11
- Restraint Gland shall have ductile iron wedge activating screw w/ Auto-Tork® break-away head design
- Wedges shall be contoured to fit the pipe
- Gland, screw and segments shall be protected with black Armorguard® e-coat
- Restrain Glands 4" - 12" shall be FM Approved
- Restraint Glands 4" - 48" shall be UL Listed
- Pre-approved restraint glands are Ford Meter Box Company UFR1400-D and EBAA Iron, Inc. Megalug Series 1100

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
6" Retainer Gland for Ductile Iron Pipe			
8" Retainer Gland for Ductile Iron Pipe			
12" Retainer Gland for Ductile Iron Pipe			
16" Retainer Gland for Ductile Iron Pipe			

DETAILED SPECIFICATIONS FOR DUCTILE IRON FITTINGS

- Fittings shall be ANSI / AWWA C110 / A21.10, NFPA 13 / 24, UL listed and approved
- Fittings shall be cast of ASTM A536 qualified ductile iron
- Fittings shall have date code cast on the fitting for traceability
- Fittings shall have made in USA cast on the fitting
- Fittings with mechanical joints shall be rated at 350 psi
- Fittings shall have a joint deflection 5* max for 2" through 12" and 3* max for 14" through 48"
- Fittings shall have asphalt coating exterior per ANSI / AWWA C104A / A21.4 and ANSI / AWWA C110 / A21.10
- Fittings shall have cement lining per ANSI / AWWA C104 / A21.4
- Fittings shall be fusion bonded epoxy coated per ANSI / AWWA C116 / A21.16
- Pre-approved manufacturers are Tyler Union Company, Star Pipe Products

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
12" 22 ½ DIMJ Bend			
12" 45 DIMJ Bend			
16" x 12" DIMJ Reducer			
16" DIMJ Cap			
16" x 6" DIMJ Tee			
16" x 8" DIMJ Tee			
6" x 2" DIMJ Tapped Tee			
Ductile Iron Slip Joint Valve Box Complete			
16" x 6" DIMJ Tee			

DETAILED SPECIFICATIONS FOR CASING

- Steel Casing Pipe shall be new and have an exterior bitumastic asphalt coating
- Steel Casing Pipe shall be manufactured in the United States of America
- Casing Spacer shall be type 304 (18-8) stainless steel per ASTM A240
- Casing Spacer liner shall be elastomeric PVC per ASTM D149
- Casing Spacer chock skid shall be glass reinforced nylon
- Casing Spacer fasteners shall be type 304 (18-8) stainless steel per ASTM A193
- Casing Spacer shall be center restrained
- Casing Spacer chock width shall be 12"
- Casing Spacer shall fit ductile iron pipe with an OD of 17.40"
- Casing Spacer shall insert into steel casing pipe with an OD of 24" and a wall thickness of 0.5"
- Pre-approved casing spacers are Powerseal® 4810 Casing Chock
- Casing End Seal shall be a modular, elastomer sealing system to create a permanent hydrostatic seal on casing pipe
- Casing End Seal shall be pressure resistant to 20 psig (40ft of head)
- Casing End Seal rubber shall be EPDM rubber
- Casing End Seal hardware shall be S316 stainless steel
- Casing End Seal shall be manufactured in an ISO 9001 certified facility
- Casing End Seal shall fit ductile iron pipe with an OD of 17.40"
- Casing End Seal shall fit and seal a steel casing pipe with an OD of 24" and a wall thickness of 0.5"
- Pre-approved casing end seals are GPT Industries Link-Seal® Modular Pipe Sealing Systems for Wall Penetrations

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
24" Steel Casing Pipe			
Stainless Steel Casing Spacer			
Casing End Seal			

DETAILED SPECIFICATIONS FOR BRASS NIPPLE

- All service brass will comply with AWWA C-800
- All service brass shall be certified to NSF 61
- Components in contact with potable water will comply with latest requirements of the Federal Safe Drinking Water Act
- All service brass shall be produced by a domestic manufacturer in the United States of America

DESCRIPTION	COMPLY	EXCEPTION	DELIVERY TIME
2" x 12" MIP x MIP Brass Threaded Nipple			



RECEIPT OF BID PACKET

FY 2022 - 2023
Sealed Bid # 2223-13
Construction Material for Water Main Extension to Ascend Elements

I hereby acknowledge receipt of the subject bid packet.

Company Authorized Signature

Date



BID FORM

Item Description	Unit	Quantity	Unit Cost	Total Cost	Lead Time
6" Ductile Iron Pipe	LF	126			
8" Ductile Iron Pipe	LF	36			
12" Ductile Iron Pipe	LF	342			
12" Ductile Iron Restrained Joint Pipe	LF	72			
16" Ductile Iron Pipe	LF	2214			
16" Ductile Iron Restrained Joint Pipe	LF	198			
2" Threaded Gate Valve	EA	1			
6" MJ x MJ Gate Valve	EA	7			
8" MJ x MJ Gate Valve	EA	1			
12" MJ x MJ Gate Valve	EA	1			
16" MJ x MJ Gate Valve	EA	5			
5 1/4" 3 Way Fire Hydrant w/ 6" Mechanical Joint Shoe - Yellow in Color, 3' 6" Bury	EA	6			
6" Retainer Gland for Ductile Iron Pipe	EA	21			

BID FORM CONT.

Description	Unit	Quantity	Unit Cost	Total Cost	Lead Time
8" Retainer Gland for Ductile Iron Pipe	EA	3			
12" Retainer Gland for Ductile Iron Pipe	EA	9			
16" Retainer Gland for Ductile Iron Pipe	EA	32			
12" 22 ½ DIMJ Bend	EA	2			
12" 45 DIMJ Bend	EA	1			
16" x 12" DIMJ Reducer	EA	1			
16" DIMJ Cap	EA	2			
16" x 16" DIMJ Tee	EA	1			
16" x 8" DIMJ Tee	EA	1			
6" x 2" DIMJ Tapped Tee	EA	1			
Cast Iron Slip Joint Valve Box Complete	EA	15			
16" x 6" DIMJ Tee	EA	7			
24" x 0.5" Steel Casing	LF	60			
Casing Spacers	EA	16			
Casing End Seals	EA	4			
2" x 12" Threaded Brass Nipple	EA	1			

Total Lump Sum Bid \$ _____

Quantity is approximate, actual order may be **± 25% of Est. Quantity** once HWEA construction plans are approved



BID FORM

FY 2022 - 2023

Sealed Bid # 2223-13

Construction Material for Water Main Extension to Ascend Elements

Company Name: _____

Address: _____

Telephone: _____ Email: _____

I, the undersigned, do hereby certify that I am a duly authorized representative of _____ located at _____ and I have carefully examined the Invitation to Bid, General Conditions, Specifications and Bid Form and agree to all terms and conditions as set forth therein.

Signature: _____

Title: _____

Acknowledged before me this _____ day of _____, 2023

NOTARY PUBLIC
My Commission Expires: _____