

# REQUEST FOR BIDS

## V-BOX SAND AND SALT SPREADER

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Department of Public Services

1015 S Lincoln Avenue

Three Rivers, MI 49093

(269) 273-1845

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# Bidding Information

## Performance Bids

The City of Three Rivers is committed to the concept of performance bids. All vendors are encouraged to submit bids which conform to the stated specifications, as well as, suggest deviations from the specifications, which in the vendor's opinion would be beneficial to the City in terms of price and performance. The City reserves the right to accept or reject any bid under these terms.

### *I. Instructions*

- A. Bids must be typewritten or clearly printed in ink and signed by a duly-authorized representative of the firm submitting the quote.
- B. Bids must be submitted in sealed envelopes, clearly marked on the outside, "**Bids for V-Box spreader**".
- C. Bids will be received by the Office of the City Clerk, City Hall, 333 West Michigan Avenue, Three Rivers, Michigan, 49093, until **2:00 p.m. local time, Thursday, May 26 2016**. All bids will be date stamped and time marked when received.
- D. Faxed or emailed bids shall not be accepted.
- E. If you received this document from our website, you must e-mail your contact information to [aroth@threeriversmi.org](mailto:aroth@threeriversmi.org) so we can place you on the bidders list for addenda.

### *II. Conditions Applicable to Bids*

- A. Applicable Laws: The Ordinances and Charter of the City and laws of the State of Michigan concerning competitive bidding, contracts and purchases will be employed.
- B. Taxes: The City of Three Rivers is generally exempt from Federal Excise and Michigan State Sales Tax. Prices should not include tax.
- C. If the bidder elects to deviate from the specifications stated, all exceptions or other changes must be clearly noted.
- D. The City reserves the right to reject any and all bids, waive informalities or defects in bids, or accept such bids as it shall deem to be in the best interest of the City of Three Rivers.
- E. The City does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or the provision of services.
- F. The Bidder shall provide a completed W-9 form with this bid
- G. The City plans to award the equipment purchase at the **June 7, 2016** Commission meeting.
- H. A guarantee delivery date for the shipper shall be noted on the bid on the space provided.
- I. If you have any further questions, please contact Amy Roth, at 269-273-1845 or e-mail inquiries to [aroth@threeriversmi.org](mailto:aroth@threeriversmi.org).

## Bid Form

The undersigned having familiarized (himself/themselves) with the local conditions affecting the cost of the product and the Contract Documents hereby proposes to provide and furnish all labor, materials, necessary tools, equipment, utility and transportation services necessary to perform and complete in a workmanlike manner all work required in accordance with the specifications as prepared by the Department of Public Services, City of Three Rivers, Michigan, for, including Addenda No. \_\_\_\_\_ issued thereto, the following unit prices:

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

TELEPHONE \_\_\_\_\_ DATE \_\_\_\_\_

BID AMOUNT (INCLUDING APPLIED DISCOUNTS) \_\_\_\_\_

DISCOUNT AMOUNT \_\_\_\_\_

## Specifications for V-Box Spreader

### *General*

It is the intent of these specifications to describe a V-Box sand and salt spreader made of 201 grade stainless steel construction.

The below listed specifications and instructions are in no way intended to eliminate any company, vendor, bidder or product from the bid process. It is the sole intent of these specifications and instructions to describe a v-box spreader that will be the best product available to the City of Three Rivers and its residents.

This specification shall describe a **HENDERSON FSH II CONVEYOR** V-box material spreader or approved equal, capable of hauling and spreading free flowing granular materials, evenly over a roadway up to 40 feet. This unit shall consist of a stainless steel body, rear discharge conveyor, spinner disc, power drive, and all components necessary to make a complete operating unit. Bidders must submit with their proposal, notating any deviations, complete specifications on the unit they propose to furnish. Bidders must respond to each section of the specification with a “yes” or “no” for each section. If “yes” is checked, bidder is expected to supply exactly what is described. If “no” is checked, a detailed explanation of the deviation must be provided, on this form or on a separate piece of paper included in the bid, no matter how minor it may be. Failure to respond to either “yes” or “no”, the bid will be rejected for non-compliance.



## Minimum Conveyor Requirements

The conveyor system shall be rear discharge design consisting of a 24" wide pintle chain conveyor.

The pintle chain shall be D667x heat treated alloy steel chain with an average ultimate strength of 21,000 lbs./strand.

The chain pins shall be 7/16" in diameter with 2-1/4" pitch.

The conveyor cross bars shall be 1/4" x 1-1/2" on 4-1/2" centers (every other link).

The cross bars are to be welded on both the top and bottom to the pintle chain.

The ends of the cross bars shall be formed with an approximate 30 degree taper to ensure maximum downward pressure on the crossbars as the chain conveys.

The drive and idler sprockets shall be 8-tooth cast self cleaning design and keyed to the drive and idler shafts.

The drive shaft shall be 1.5" in diameter manufactured from TG&P alloy steel.

The idler shaft shall be 1.5" in diameter, manufactured from CR1018 steel.

The idler shaft and non-powered end of the drive shaft shall turn on a 4-bolt flange bearing. The bearing shall utilize a B-type seal and include a grease zerk.

Chain tensioning shall be maintained by means of two spring-loaded idler bearing adjustment plates with a minimum of 4" of adjustment. The idler take-up bolt shall be a minimum of 5/8".

The conveyor shall be equipped with a belt type chain wiper located at the lower rear of the roll over plate. The wiper shall minimize material from being carried to the front of the spreader atop of the chain flights.

The conveyor shall be driven thru a 50:1 reduction worm gearbox. The steel worm gear shall be hardened and ground with an aluminum bronze output gear with a minimum tensile strength of 90,000 lbs.

The output bearings shall be tapered roller type.

The gearbox shall be driven by a direct coupled 96cc, 5.9CIR, 2-hole SAE A mount hydraulic motor. The motor shall feature 7/8" O-ring porting with a 1" woodruff keyed output shaft.

Yes No

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## Spinner Chute Assembly

The spinner chute shall be fabricated from no less than 10ga 201 grade stainless steel and have no less than 250sq.in of opening.

To accommodate various spreader mounting heights, the chute shall be 4-position telescopic design which to provide adjustment of the lower section to between 29" to 38" below the mounting surface.

There shall be two 5-position internal baffles, fabricated from no less than 10ga 201 grade stainless steel located above the spinner disc to adjust material placement onto the disc. These baffles shall be adjustable without the need for tools by utilizing a notched positive lock.

Four (4) bottom spinner deflectors, fabricated from no less than 10ga 201 grade stainless steel, shall be over-lapping design to prevent loss of granular material when the deflectors are raised. The front most deflector shall be fixed. The side and rearmost deflectors shall be adjustable with (4) positions of rod and pin adjustment without the need for tools. Chain adjustable deflectors are not acceptable. The adjustable deflectors shall be removable without the need for tools.

The spinner disc shall be 20" in diameter, fabricated from 10ga grade 50 steel. It shall include (6) 2.25" tall, 10ga 409 grade stainless steel bolt-on replaceable spinner vanes. The spinner disc shall utilize a replaceable machined spinner hub.

The hydraulic spinner motor shall be top mount design providing protection of the hydraulic motor from damage. Bottom mount motor or drive shaft with bearings will not be accepted. The top mounted spinner motor shall be enclosed in the spinner chute to maximize granular material flow to the spinner disc. For serviceability, the spinner chute shall have open access to the spinner motor.

A spinner bypass chute shall be provided that allows for the stationary unloading of granular material. When in the pivoted "down" position, the chute shall provide complete bypass of the spinner and bottom deflectors. When in the "up" position, the chute shall become part of the enclosed spinner chute providing granular material flow to the spinner. The bypass chute shall have a quick latch system pinning into position without the use of tools.

## Paint

All metal surfaces are to be SS etched cleaned to remove slag, splatter, oxide, and oil residue.

All stainless steel components to remain in natural finish.

All steel components to be painted black.

Yes No

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***Delivery***

Guaranteed delivery date \_\_\_\_\_

Spreader shall be furnished fully serviced and assembled.

***Warranty***

Provide information on the warranty covering the spreader for materials and workmanship, cost of warranty is to be included in the bid price.

Distributor or representative shall provide the closest location to the City of Three Rivers for a parts and service facility.

Indicate location of service/parts facility

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\_\_\_\_\_  
\_\_\_\_\_

The distributor facility must have adequate stock of parts and mechanics trained to work on their mowers.

No contract or sub-let maintenance and or warranty service shall be acceptable. **NO EXCEPTIONS**