

# **City of Scottsbluff, Nebraska**

**Monday, January 6, 2014**

**Regular Meeting**

## **Item Consent4**

**Council to approve bid specifications for the purchase of a Shredder for use in composting the City's biosolids, grass clippings and yard waste, and authorize the City Clerk to advertise for bids to be received on Monday, January 27, 2014 at 1:00 p.m.**

**Staff Contact: Lynn Garton**

# Agenda Statement

Item No.

For meeting of: January 6, 2014

**AGENDA TITLE:** Council to approve bid specifications for the purchase of a Shredder for use in composting the City's biosolids, grass clippings and yard waste, and authorize the City Clerk to advertise for bids to be received on Monday, January 27, 2014 at 1:00 p.m.

**SUBMITTED BY DEPARTMENT/ORGANIZATION:** Mark Bohl, Public Works Director

**PRESENTATION BY:** Consent

**SUMMARY EXPLANATION:** These bid specifications are for the purchase of a Shredder that is needed in order to process green waste as a compost amendment. It will reduce the waste to a sufficient size prior to incorporating it into the compost mixture. We have included the option of trading in a 2005 Wood Hog toward this purchase.

These bid specifications have been reviewed by legal before bring before Council for consideration.

**BOARD/COMMISSION RECOMMENDATION:**

**STAFF RECOMMENDATION:** Staff requests that Council approve the bid specifications and authorize the City Clerk to advertise for bids to be received on January 27, 2014 at 1:00 p.m.

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## EXHIBITS

Resolution ☐ Ordinance ☐ Contract ☐ Minutes ☐ Plan/Map ☐

Other (specify) ☒ Bid Specifications

**NOTIFICATION LIST:** Yes ☐ No ☐ Further Instructions ☐

**APPROVAL FOR SUBMITTAL:** \_\_\_\_\_  
City Manager

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Rev 3/1/99CClerk



## **CITY OF SCOTTSBLUFF**

**Environmental Services**

**A Division of**

**Public Works**

2525 Circle Drive

Scottsbluff, NE 69361

# **Bid Specifications For The Purchase of One (1) New, Slow Speed, High Torque Power Shredder**

**Issue Date: January 6, 2014**

**Publish Dates: Fridays – January 10<sup>th</sup>, January 17<sup>th</sup>, and January 24<sup>th</sup>, 2014**

**Closing Date/Time: Monday, January 27, 2014 at 1:00 p.m.**

### **Contact**

**Lynn A. Garton – Water Reclamation Supervisor  
308-630-6292**

**NOTICE TO BIDDERS**  
Request for Bid Proposals  
For the Purchase of One New  
Slow Speed, High Torque Power Shredder

Sealed Bids will be received by the City of Scottsbluff, Nebraska at the office of the City Clerk until 1:00 P.M. on Monday, January 27, 2014, for furnishing One (1) New, Slow Speed, High Torque Power Shredder. Bids will include the option of trading in One (1) Used 2005 Morbark Wood Hog, Model 3600, toward this purchase. All Bids must be received by the City Clerk, of the City of Scottsbluff, 2525 Circle Drive, Scottsbluff, NE 69361. Bids must be submitted in a sealed envelope plainly marked "Request for Bid Proposals, Slow Speed, High Torque Power Shredder". Specifications and Instructions to Bidders are available at the office of the City Clerk or on-line by going to [www.scottsbluff.org](http://www.scottsbluff.org). Inquiries may be addressed to Lynn A. Garton, Water Reclamation Supervisor, 308-630-6292 or [lgarton@scottsbluff.org](mailto:lgarton@scottsbluff.org). The Council reserves the right to reject any and all bids and to waive irregularities.

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Cindy Dickinson  
City Clerk

Publish – 3T  
January 10, 2014  
January 17, 2014  
January 24, 2014

## INSTRUCTIONS TO BIDDERS

1. All Bids shall be submitted on the Bid Forms provided for this purpose in order that they may be properly compared and evaluated.
2. The Bid shall be for One (1) New, Slow Speed, High Torque Power Shredder.
3. The Bid shall include the option of trading in One (1) Used 2005 Morbark Wood Hog Model 3600, hours unknown, toward this purchase. The used equipment is listed on the Bid Form provided. Used equipment may be viewed at the City of Scottsbluff Compost Facility photos and details may be obtained by contacting the Water Reclamation Supervisor at 308-630-6292 or [lgarton@scottsbluff.org](mailto:lgarton@scottsbluff.org).
4. The Bid shall be quoted F.O.B. Scottsbluff, NE.
5. Bids shall state the make and model of proposed equipment and include complete detailed specifications with manufacturer's brochure, specifying the identical model being bid.
6. The City is exempt from Federal Excise and State Sales Tax. A tax exemption certificate will be furnished by the City of Scottsbluff.
7. The Bids shall be submitted to the City Clerk's office by 1:00 P.M., January 27, 2014, in a sealed envelope, and the envelope clearly marked "Request for Bid Proposals, Slow Speed, High Torque Power Shredder."
8. The Council reserves the right to reject any and all bids and to waive any irregularities for any reason deemed necessary.
9. Award of purchase by the City will not become final until Council approval is received. Following approval a Notice of Award will be provided to the successful bidder.
10. City will pay for equipment meeting all specifications upon proper documentation of same, no sooner than the first Council meeting following delivery of same.
11. Delivery time from date order is placed to vendor shall be one hundred twenty (120) days or less.
12. Price that is stated on the Bid Proposal Form shall be good for 30 calendar days following bid opening.
13. Any items of noncompliance or deviation from the minimum specifications listed on the following pages must be written in the space provided and submitted with the Bid Proposal.
14. Actual equipment being bid must be available for inspection by City personnel after the bids are opened and before the next council meeting when the purchase will be approved.



## **MINIMUM SPECIFICATIONS FOR ONE (1) NEW, SLOW SPEED, HIGH TORQUE POWER SHEDDER**

### **General:**

- It is the intent of these specifications to establish minimum requirements for One (1) New, Slow Speed, High Torque Power Shredder. This equipment shall be equivalent to or exceed the following specifications. The equipment equivalent must be written in the space provided and any items of noncompliance or deviation from the minimum specifications listed must also be written in the same area. This equipment shall include all manufactures advertised standard equipment that meets or exceeds the following specifications unless otherwise specified.
- Equipment shall be of good commercial quality for the intended service and shall be produced by use of such manufacturing processes.
- Equipment shall be treated to resist rust and corrosion. The design of the mechanical members shall be such that the stress imposed through normal use shall not cause rupture or permanent deformation on any member.
- Bidders must submit with their bid, the latest printed specifications and advertising literature on the models they propose to furnish.
- It will be necessary for the successful bidder to furnish all necessary and desirable information and instructions for the proper operation of the equipment by the employees of the City of Scottsbluff, including but not limited to operational manual, parts manual, shop repair, electrical diagram, service manual and two legible copies of the manufacture's line sheets.
- Bidders shall submit a synopsis of non-compliant issues with their respective bid.
- The City of Scottsbluff has evaluated different types of equipment and has determined that this equipment is best suited for its needs in safety, quality, performance and standardization. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all equipment bids will be compared. In comparing proposals, consideration will not be confined to price only. Contract will be awarded for the equipment which best serves the interests of the City of Scottsbluff when cost, equipment, safety, quality and delivery are considered. The City of Scottsbluff reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the exact requirements of this specification.
- Bids will be accepted for consideration on any make or model that is equal or superior to the equipment specified. Decisions of equivalency will be at the sole interpretation of the City of Scottsbluff.

- All equipment furnished shall be new, unused and the same as manufacturer's current productions model. Accessories not specifically mentioned herein, but necessary to furnish complete equipment ready for use, shall also be included. Equipment shall conform to the best practice known to the body trade in design, quality of materials and workmanship. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of equipment as specified in this invitation to bid.
- Successful bidder shall provide component information consisting of serial and part numbers for all components of the equipment, including but not limited to: Engine, generator, axles, hydraulic pump, and gearboxes, to assist in ordering parts in the future.

**Literature:**

- Two (2) copies of the following manuals/drawings shall be furnished upon delivery of the equipment:
  - Electrical diagram.
  - Hydraulic diagram.
  - Hydraulic schematics.
  - Service ship repair manuals.
  - Operator's manuals.
  - Parts manuals.
  - Manufacturers line build sheet.
  - In lieu of two copies of the manuals, the City would prefer one of the copies of the complete literature to be in compact disc format, if available.

**Warranty:**

- One year unlimited 100% parts and labor, **to begin no earlier than the date of delivery, and the City's acceptance of the equipment.**
- Two year unlimited power train 100% parts and labor for a total of three years warranty.
- The successful bidder shall respond to all calls for warranty work within 48 hours of being notified by Scottsbluff Environmental Service personnel. To clarify, respond refers to being on site repairing.
- If successful bidder cannot respond within 48 hours then a local service facility shall be provided for service at no expense to the City of Scottsbluff. State the location and distance of the servicing facility when submitting the bid.
- If the equipment won't be back in service within 7 calendar days of being notified, the successful bidder will provide a like machine to keep operations going at no cost to the City.
- The successful bidder shall maintain and/or have access to parts inventory during the warranty period. If this is not possible, Note Exception when submitting bid.
- The City of Scottsbluff will not be liable for freight charges during warranty period, due to dealer not stocking parts.



- All in service policies and warranties shall be delivered with the equipment at the time of delivery.

**Parts Availability:**

- All parts that are essential to the operation of this machine shall be made available to the City within 2 calendar days after being notified.

**DETAILED SPECIFICATIONS**

**General:**

- The purpose of these specifications is to describe a slow speed, high torque power shredder capable of processing organic materials and producing a consistent determined particle size.

**Weights and Dimensions:**

- Approximate weight – 44,092 lbs.
- Dimensions- **Track Model** (L x W x H)  

Work:	Transport:
33' 2" x 7' 7" x 9' 10"	27' 8" x 7' 7" x 10' 4"

Bid Equivalent or Deviation:

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**Tracks:**

- Must have two track speeds with radio remote, both functional while shredding to allow stockpile and windrow capability.
- Must shred material & track the machine at the same time.
- One transmitter for the remote must be able to operate all functions.
- Each track must have its own pump per track and these cannot operate any other function.
- Track pad width minimum 1' – 3".

Bid Equivalent or Deviation:

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**Engine:**

- The engine is to be located in an enclosed compartment with insulation for sound dampening.
- The engine is to be a Mercedes Benz OM 926LA 240 KW or equivalent, minimum 326 HP @ 2200 RPM, Tier 3 compliant.
- 2stage fuel filter.
- 2 stage air filter system and Turbo II prefilter.
- The engine should meet all current State and Federal regulations.
- Engine access from both sides of machine, and from behind pivoting radiator.

Bid Equivalent or Deviation:

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**Electrical:**

- Electrical system must be 24VDC
- Must have a startup warning horn
- Must have an automatic start up button. That is one button starts all.

Bid Equivalent or Deviation:

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**Service:**

- Display must be able to give an advanced warning on hydraulic oil level, warning on fuel level, and warning on engine temp.
- Display must show the fault when a fault occurs.
- Display must be capable of storing the fault when the ignition is turned off.
- The stored fault must show date and time of occurrence.
- The display must show and store any engine faults
- Must also be able to run individual functions for maintenance etc. Must have a speed sensor for the shaft, coolant level sensor, Hydraulic level and temp sensor, air filter sensor, engine oil pressure sensor, electronic readout for the engine oil pressure, electronic readout for the engine temp, electronic readout for the engine rpm, electronic readout for the fuel level, electronic readout for the battery voltage, electronic readout for engine hours, electronic readout for service hours and service counter.

Bid Equivalent or Deviation:

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### **Conveyer System:**

- Discharge conveyors shall be sectional with one belly conveyor and one foldable output conveyor. Each conveyor shall contain its own belt and own framework allowing for easy service and maintenance.
- Machine will be equipped with a high strength magnet for removing metal.
- Must have additional hydraulics to run a magnet that is its own pump.
- Under-shaft conveyor to include full-length impact bed and vulcanized, cleated heavy-duty rip-stop style belt.
- Shall have minimum 32" wide heavy-duty inclined stacking conveyor preventing bottleneck and lowers bed depth to increase ferrous recovery with Neodyn rare earth magnet.
- Conveyor speed must be adjustable.
- Conveyor pressure must show in the display.
- Rear control panel must have a two hand function, cannot be allowed to operate with one hand.
- Shall be equipped with standard dust suppression system includes adaptor for water hose with valve control and spray nozzles mounted at each end of hopper, and over lower end of inclined conveyor.

Bid Equivalent or Deviation:

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### **Fluid Coupling:**

- Fluid coupling drive design to include Flender FGO 565 fluid coupling power transfer and 80:1 gear reduction.
- Must have a minimum of a thermal switch 140C (284f) and clay fuse and a melting protector 160C (320f) for safety of fluid coupling drive.

Bid Equivalent or Deviation:

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**Engine & Hydraulic Cooling System:**

- Reversing hydraulic drive fan for radiator, must be on an adjustable timer.
- Radiator must contain coolant radiator, hydraulic oil radiator and after cooler radiator.
- Radiator must be able to swing open.
- Fan must have an option of manual reversing from the control panel.

Bid Equivalent or Deviation:

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**Shafts:**

- Shaft speed – approximately 25-32 RPM.
- Shaft to be fitted with minimum 28 hard-faced teeth, each fastened with a single bolt.
- Must have Single shaft Technology, minimum dimensions – 2,000mm x 950mm (6' 7" long x 37 ½ ")
- Shaft shall include replaceable, exterior, hard-faced wear plates for long life.

Bid Equivalent or Deviation:

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**Combs:**

- Must have a breakaway comb which is its own identity with adjustable hydraulic pressure.
- Comb must be able to pressure adjust between 120 and 140 bar.
- Actual and set Comb pressure must show in the display.
- Minimum 15 heavy-duty comb teeth to be supported in frame, held under pressure using hydraulic cylinders plumbed to a Nitrogen accumulator.
- Accumulator shall enable automatic hydraulic comb release to pass unshreddable tramp material while production continues – not repeated stop & go, forwards & backwards.
- Comb teeth shall be wedged in support frame and easily accessible through side door.
- Shall include comb extensions.

Bid Equivalent or Deviation:

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**Fuel Tank:**

- 79 gallon minimum, with vandal-proof/locking cap.

Bid Equivalent or Deviation:

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**In-Feed Hopper:**

- Maximum filler height of 2,880mm (9' 5").
- Shall be equipped with hopper extensions.

Bid Equivalent or Deviation:

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**Operating Manuals:**

- Operating manuals shall be furnished that contain the recommended operating instructions and maintenance procedures for all systems and components being furnished. The instructions shall provide step-by-step use methods and include adequate illustrations, diagrams and other aids. Special attention shall be given to safety considerations for personnel and the equipment.

**Systems Parts Books:**

- A parts book supporting field repair and replacement of the various components of the delivered systems shall be furnished. This book shall include exploded or cutaway drawings of numerous components and assemblies with each drawing referencing a manufacturer's part number and description.

**Instruction:**

- The successful bidder shall fully instruct City personnel in the operation of the equipment furnished after delivery. The instruction period shall be of sufficient duration to fully familiarize City's operating personnel. The instruction shall be conducted by the successful bidder's field service technician and shall include component familiarization, theory of operation, equipment operation, field procedures, techniques of use, troubleshooting, maintenance and safety procedures. *Training provided by sales or office personnel will not be acceptable.*

**End Specification**