

City of Scottsbluff, Nebraska

Monday, January 6, 2014

Regular Meeting

Item Consent3

Council to approve bid specifications for the purchase of a Compost Windrow Turner 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 Compost Windrow Turner 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 6, 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 Compost Windrow Turner that will be used to mix/turn the City's biosolids, grass clippings and yard waste until it becomes a finished compost product. We have included the option of trading in a 1998 Brown Bear and a 1998 Wildcat Compost Turner 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.

EXHIBITS

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

Other (specify) ☒ Bid Specifications _____

NOTIFICATION LIST: Yes ☐ No ☐ Further Instructions ☐

APPROVAL FOR SUBMITTAL: _____
City Manager

Rev 3/1/99CClerk



CITY OF SCOTTSBLUFF

Water Reclamation

A Division of

Public Works

2525 Circle Drive

Scottsbluff, NE 69361

Bid Specifications

For

The Purchase of One (1) New, Self-Propelled, Track Drive Compost Windrow Turner

Issue Date: January 6, 2014

Publish Dates: Fridays – January 10th, January 17th, and January 24th, 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
Self-Propelled Track Drive Compost Windrow Turner

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 27th, 2014, for furnishing One (1) New, Self-Propelled, Track Drive, Compost Windrow Turner. Bids will include the option of trading in One (1) Used 1998 Brown Bear, Model SC36B, with 758 hours and One (1) Used 1998 Wildcat Compost Turner, Model LS117A, 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, Self-Propelled Compost Windrow Turner". Specifications and Instructions to Bidders are available at the office of the City Clerk or on-line by going to www.scottsbluff.org. Inquiries may be addressed to Lynn A. Garton, Water Reclamation Supervisor, 308-630-6292 or lgarton@scottsbluff.org. The Council reserves the right to reject any and all bids and to waive irregularities.

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, Self-Propelled, Track Drive, Compost Windrow Turner.
3. The Bid shall include the option of trading in One (1) Used 1998 Brown Bear, Model SC36B, with 758 hours and One (1) Used 1998 Wildcat Compost Turner, Model LS117A, 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.
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, Self-Propelled Compost Windrow Turner."
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, SELF-PROPELLED TRACK DRIVE COMPOST WINDROW TURNER

General:

- It is the intent of these specifications to establish minimum requirements for One (1) New, Self-Propelled Track Drive Compost Windrow Turner capable of processing organic materials. This equipment shall be equivalent to or exceed the following specifications. The equipment equivalent must be listed 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. The equipment furnished shall conform to ANSI Safety Standard Z245.1-1999.
- Successful bidder shall provide component information consisting of serial and part numbers for all components of 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 our acceptance of the machine.**
- 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 equipment shall be made available to the City within 2 calendar days after being notified.

DETAILED SPECIFICATIONS

Weights and Dimensions:

- Approximate weight – 33,200 lbs.
- Dimensions – (L x W x H)

<u>Work:</u>	<u>Transport:</u>
13'2" x 18'8" x 15'3"	9'9" x 28'7" x 10'4"

Bid Equivalent or Deviation:

Engine:

- Engine Location: Engine to be located on the side of the turner, below the line of operator sight. This to minimize the introduction of compost contamination into the engine compartment and for reducing the amount of engine heat and noise transferred to the cabin.
- Engine Compartment Cover: To raise/lower electrically.
- Engine Accessibility: Engine to be accessible without the need for a ladder. Engine Compartment to have integrated Steps and Walkways which allow full access to the engine compartment. Steps and Walkways must fold away when not in use.
- Engine Type: The engine shall be a minimum 6 cylinder Cummins turbo diesel, minimum 302HP @ 1,900 RPM, Tier 3 compliant.
- Cooling System: Tropic Environment Radiator with CleanFix® Reversing Fan.
Engine Radiator to be mounted on the inboard (cabin) side of engine in order to access cleaner air.
- Intake Air: Full (2) Stage filtration with “turbo” air pre-cleaner, located in a position as to minimize the introduction of dust and compost contaminated air. Air filters checked without need of a ladder.
- Safety: Must have battery safety disconnect to assure safety during maintenance.
- The engine should meet all current State and Federal regulations.

Bid Equivalent or Deviation:

Hydraulic System:

- Hydraulic Cooling: Hydraulic cooling system to be totally separate from the engine cooling system, and must be located outside the engine compartment. Hydraulic cooler to have Tropic Environment Radiator equipped with CleanFix® Reversing Fan. Cooler Compartment Cover to rise electrically.
- Filtration Type: Both Return and High Pressure circuits side to be filtered.
- Filtration Monitoring: Electronic Level and Filter Status.
- Filter Location(s): To allow for easy of replacement.
- Security: Locking “tamper proof” Tank Cap to prevent Contamination.
- Device Monitoring: All Hydraulic Devices to have Magnetic Valves with LED position Indicators in the cab to indicate position.

Bid Equivalent or Deviation:

Electrical System:

- Batteries: (2) X 12 Volt, 143 Amp Hour.
- Generator: (3) Phase, 24 Volt, 100 Amps.

Bid Equivalent or Deviation:

Cabin:

- Cab Type: Panoramic, must allow full 180° unobstructed field of view at all times without the need for cameras. Easily accessible with safety rails. **Cabin to be hydraulically raised and lowered in a lateral fashion to assure ease of entry, and ease of transport. Cab must be Fully and Easily assessable when the turner is in a windrow. Turner must be able to turn material with Cabin in lowered position.**
- Cabin Filtration: Must be equipped with a cabin filtration system (G4 [EU 4] according to EN 779 standard [DIN 24185]). Two pocket-type filters (1.7 x 0.9 x 0.33 ft) guarantee filtration efficiency of 96 %.
- Acoustics: According to DIN ISO 6393 and 6394. Sound-pressure test certificates showing prevailing peak values must be made available if required.
- Air Conditioning: Automatic / Electronic Temperature Control, Separate fan controls. **A/C unit specially designed for use in a pressurized, filtered environment.**
- Heating: Warm Air Heating with multi-level fan.
- Radio: AM/FM Stereo with (2) Speakers and CD Player.
- Machine Controls: Ergonomically Designed, Smooth, joystick controls integrated into armrests.

- Operators Seat: **Must be “air ride” for comfort.**
- Lighting: (4) Halogen Headlamps on cab roof, of turner, (2) Halogen Lamps on back of turner.
- Acoustic Warnings: Machine “Start Up”, and “Back Up” warning.
- Visual warnings: Rotating Amber Beacon during machine operation.
- Jump seat: To facilitate safe training, cabin must contain a passenger jump seat.
- Heated exterior mirrors, electrically adjustable.
- Operations Display: Must have 4.3” Digital Display panel to provide “real-time” Informational feedback to the operator. To included Drum Speed, Hydraulic Pressure, Hydraulic Temperatures, Fuel Consumption, Machine Leveling, etc.
- Load Control: Must be equipped with load control to improve compost quality, and for ease of turner operation.
- First Aid Kit According to DIM 131 57 C.
- Tool Box Containing all basic tools as required for daily maintenance of turner.

Bid Equivalent or Deviation:

Fuel Tank:

- 98 gallon minimum, with electronic fuel gage in cab.
- Vandal-proof/locking cap.

Bid Equivalent or Deviation:

Platform:

- Operator’s platform shall provide safe and convenient access to cab.
- Access to platform shall be by minimum of one ladder with grab rails.
- Deck shall be of non-slip steel mesh or equivalent.
- Deck shall have safety guardrail system.

Bid Equivalent or Deviation:

Rotor:

- Rotor Power: Fully Hydraulic (**No Belts, Clutches, or Gearboxes allowed**) **Rotor must be able to Start, Stop, and Reverse rotation direction while under full load.**
- Rotor Speed: 0 – 230 RPM

- Rotor Speed adjustment: Infinitely Variable, and Adjustable under load.
- Rotor Diameter: 48” Minimum.
- Rotor Length: 14’-6” minimum.
- Rotor Tools: Bolted “paddle” style drum tools bolted to tool holders which are welded directly to the drum. **NO FLAILS DRUM TOOLS MUST BE EASILY REPLACED WITHOUT THE NEED FOR SPECIAL TOOLS.**
- Rotor Height Adjustment: 0” – 14” Hydraulically Adjustable with height indicator. **Rotor must Raise and Lower Independently of Turner Frame.**
- Rotor design for uniform and thorough composting of material using tool placement for maximum effect, effectively mixing, blending and turning the organic material in windrow ‘inside-out’ during each pass.

Bid Equivalent or Deviation:

Undercarriage:

- Type: Track Drive.
- Track Shoes: Rubber, High Wear, Bolt on for ease of replacement.
- Track Dive: Independent Hydraulic Drives in closed circuit, Infinitely adjustable speed control. Joystick controlled.
- Track Clearers: Clear material from track drive path, turns material onto the windrow. **Track Clearers must be able to maintain constant contact with the pad, even when Rotor is fully raised. Must have “float” feature to handle any surface irregularities. All pad contact surfaces to be Stainless Steel.**
- Track Clearer Controls: Independently, Hydraulically controlled to Raise and Lower, Swing inside and outside as required by the operator. **For maximum flexibility Track Clearers must be fully independent, and function independently of turner frame position. Must fold inside the tunnel hydraulically for transport.**
- Undercarriage Flexibility: Tracked Undercarriage to be fully interchangeable with Wheeled Undercarriage.

Bid Equivalent or Deviation:

Windrow Information:

- Windrow Width: 16'-5"
- Windrow Height: 8'-0" (with drum at lowest position).
- Throughput capacity: 4,700 Cubic Yards / Hour Min.
- Windrow Placement: Toe-to-Toe for maximum space utilization.
- **MUST NOT REQUIRE SPACE BETWEEN WINDROWS**

Bid Equivalent or Deviation:

Tailgate:

- Type: Steel Construction.
- Controls: Hydraulically Raised and Lowered by Operator.
- Function: To control windrow size and reduce amount of flying material upon entry into windrow. Must open above horizontal plane.

Bid Equivalent or Deviation:

Frame:

- Type: Box Construction Type, Portal Frame.
- Surface Preparation: Steel Surfaces to be sandblasted, coated in accordance to DIN 12944-5 Category 2.
- Lacquer Coating: Base coat to be a two-component Epoxidharz-zinc-phosphate primer, the intermediate coat to be a two-component acrylic Polyurethane protective coat, and the finishing lacquer to be a two-component acrylic Polyurethane protective coat.
- Coating Thickness: Extra Thick 120 Microns to prevent damage due to corrosive environment.
- Water connection with spray nozzles.

Bid Equivalent or Deviation:

Service:

- The turner should also incorporate a self-diagnostic package which is capable of displaying, on the main display panel any faults or maintenance required with the machine during operation. At a minimum this should include low engine oil pressure, low hydraulic oil level, high oil temperatures, loose electrical connection, low diesel level, primary and/or secondary air filter condition, diesel filter condition, etc.
- There should also be a GSM system that allows a connection between the machine and the Factory and aid in any diagnosis of machine or engine maintenance or repair. This connection and monthly service should be included in the bid pricing.

Bid Equivalent or Deviation:

Drive Control:

- The turner shall be equipped with an electronic drive control.
- It shall work in combination with an electric joystick to control the rate of feed, depending on load of rotor and engine.

Bid Equivalent or Deviation:

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 the 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