

CITY OF SPRINGFIELD, TENNESSEE  
WATER AND WASTEWATER DEPARTMENT  
INVITATION TO BID  
BID NO. 961

**WASTEWATER TREATMENT PLANT SLUDGE SPREADER**

**GENERAL:** All equipment furnished shall be in good condition, either new or used. Bidder must meet the minimum standards established by these specifications. Failure to meet these minimum specifications shall cause the bid to be subject to rejection for nonconformity to specifications. All deviations whatsoever must be fully explained on a separate sheet or it will be assumed that the features and performance are as specified without exception. Failure to deliver unit as proposed and described will result in rejection of the unit.

The bidder shall furnish a motorized vehicle capable of spreading a semi-solid material. All specifications are a minimum. These specifications are based on a Kuhn Knight Model SLC132V ProTwin Slinger spreader. The spreader is to be installed on a NEW 64,000 lb minimum GRWR tandem axle truck chassis.

**SPECIFICATIONS FOR SLUDGE SPREADER:**

**Spreader Body:**

- V-shaped box of equal sloping sides with a minimum 3,200 gallons (16 cu. Yd.) capacity.  
¼" thick steel hopper bottoms and front panel  
7-gage thick steel rear and side panels  
All hopper seams fully welded to eliminate leakage.
- Twin auger design to maintain a level load and minimize bridging and packing; 24" diameter augers, 3/8" thick flighting.
- Front oil bath drive with heavy duty roller chains and shear protection.
- Expeller located at left front of spreader body with eighteen (18) forged steel free-swinging rotating hammers.
- Expeller area to include:  
18" X 47" direct pull door to control discharge flow.  
Bedder spreader upper deflector to control/adjust spread pattern.  
Lower deflector pan to catch material "droppings".  
Manually adjustable shroud to maintain optimum spread pattern.
- Scale system with NT460 Digistar indicator in cab capable of combined GPS and weight verification of waste material applications.
- Front and rear splash guards.
- Poly fenders with mud flaps over tandem axle wheels/tires.
- Steel rear bumper with lights compliant with D.O.T. regulations
- Required clearance lights on back of spreader body.

**Main Drive and Hydraulic Controls:**

- Double right-angle gearbox mechanical drive to power spreader from a power take-off (PTO) unit attached to the truck transmission. Truck PTO to be supplied per specifications in the Truck Chassis section of these technical specifications.
- 12-volt electric/hydraulic 3-valve pump kit to operate door and deflectors individually from the cab.

### **Mounting of Spreader Body to Truck Chassis**

- The successful bidder is responsible to mount spreader body to truck chassis, completing all required cab controls, mechanical drive, electrical, hydraulic, fender, and bumper, and truck PTO and associated driveline requirements. When spreader truck is delivered to the Springfield, Tennessee Public Works Department, the unit must be ready to begin spreading operations.

**Training:** The successful bidder shall provide operator training for proper operation of the spreader.

**Operation and Maintenance Manual:** The successful bidder shall provide one complete Operation and Maintenance Manual.

**Warranty:** The successful bidder shall provide a one-year warranty against defects in material or workmanship. The successful bidder shall provide a seven-year warranty against rust-through of the spread hopper.

### **SPECIFICATIONS FOR TRUCK CHASSIS**

- GENERAL: Conventional cab, tandem rear axles, minimum 64,000 GVWR
- ENGINE: Diesel, minimum 350 horsepower, minimum displacement 9 liters, turbocharged.
- TRANSMISSION: Allison automatic, RDS Series, transmission automatically shifts to Neutral when park brake is set.
- FRAME: Full double "C" with minimum of 17 section modulus.
- FRONT AXLE: Minimum 18,000 lb axle and suspension
- TANDEM AXLES: Minimum 46,000 lb tandem axles with spring suspension, driver-controlled locking differentials, and gear ratio that will allow for maximum road speed of 65 mph.
- WHEELBASE: As required to allow for 170" cab to trunnion dimension.
- AFTERFRAME: 52" or greater.
- BATTERIES: minimum three (3) batteries with 2100 CCA total, battery disconnect at battery box or inside driver's door, remote jump start studs for easy access.
- AUXILLIARY TRANSMISSION: Fuller AT1202 with 2:1 reduction to allow for slow (5 mph) ground speed for spreading.
- ELECTRONIC ENGINE SPEED CONTROL: Programmed to operate truck at engine speed mutually agreeable between the Springfield Wastewater Treatment Plant manager and the body up-fitter.
- FUEL/DEF TANKS: Minimum sixty (60) gallon diesel fuel capacity and one (1) gallon DEF fluid capacity.
- TIRES: 425 Series front tires with aggressive on-off road tread, 600/40-22.5 "Floater" tires for tandem axles.
- REAR VIEW MIRRORS: 102" width, driver control heated.

- CAB: Visor over windshield, adjustable steering wheel, heater, air conditioning, AM/FM/Weatherband radio, power windows, power door locks, air-ride driver's seat, standard passenger seat.
- SAFETY: 5-lb dry chemical fire extinguisher; safety triangle kit.

For any equipment that is not new, the successful bidder shall provide a history of ownership, history of maintenance, and repair history.

The bid price shall include all costs, including delivery to the vehicle to the City of Springfield, Department of Public Works.

Any questions regarding these specifications can be directed to either: Brian Morrison, Wastewater Treatment Plant Chief Operator, at 615-384-1150 or at [bmorrison@springfield-tn.org](mailto:bmorrison@springfield-tn.org). or to Terry Cadwell at 615-382-1600 or at [tcadwell@springfield-tn.org](mailto:tcadwell@springfield-tn.org).

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BID FORM

Approximate delivery time, in days, from date of award: \_\_\_\_\_

Equipment proposed complies with specifications?: Yes \_\_\_\_\_ No \_\_\_\_\_ If "No", provide an explanation on additional sheets for each deviation.

Truck chassis manufacturer: \_\_\_\_\_

Truck chassis year and model: \_\_\_\_\_

Spreader manufacturer: \_\_\_\_\_

Spreader year and model: \_\_\_\_\_

**TOTAL BID PRICE:** \_\_\_\_\_

Bidder company name: \_\_\_\_\_

Bidder company address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Bidder contact person (print): \_\_\_\_\_

Bidder contact person (signature): \_\_\_\_\_

Bidder telephone number: \_\_\_\_\_

Note: bidder is to fill in all blank spaces.