

**RUSK COUNTY  
REQUEST FOR PROPOSAL**

**9" AUGER/SPREADERS  
304 STAINLESS STEEL**

The Rusk County Highway Department request bid proposals to supply the following.

**SPECIFICATIONS**

1. **GENERAL:**

- a. This under-tailgate spreader shall be of the bottom opening design, single discharge to driver side. It shall be equipped with a single spinner with in cab controls.
- b. The entire unit will rigidly mount to the sides of the dump body and below the floor level of the dump box with single pin quick detachable hardware. This mounting shall allow the dumping of materials without interference from the spreader. This unit will spread free flowing granular materials, abrasives and chemicals and be factory adapted to accept automatic control systems. Spreader to be direct drive tailgate spreader with offset to drivers side approx. 12 inches.

2. **HOPPER:**

- a. Rigid ¼ inch one-piece end plates shall be continuously welded to a 7 gauge auger trough. The unit will have a 7 gauge three point hinged bottom that, when released, exposes the entire length of the auger for easy clean out. This hinged bottom shall be held in place by two heavy duty cam locks with a lift handle for convenient one man operation. This hinged bottom shall be latched to the top portion of trough, not to the end plates. This prevents binding when opening and closing. The anti-flow cover over the discharge opening is to be .7 gauge steel construction and removable without the use of tools. The 7-gauge cover/back plate will be a one piece hinged integral part of the unit that may be raised when spreading and lowered when dumping. This cover shall be locked in the raised position by two (2) simple captivated latches. Cover/back plate must lock down when in closed position.

3. **FEED MECHANISM:**

- a. The nine (9) inch (normal) heavy-duty auger shall consist of 3/8 inch fluting, which is welded to a Schedule 40 (ASTM) pipe. The truck augers shall have continuous 6 inch spaced fluting to the discharge port for more uniform spreading and shall be supported by 1 ¼ inch steel shaft ends. The auger shafts will be supported in sealed, self-aligning precision bearing with grease fittings. The bearings shall attach to removable ¼ inch end plates. Dual discharge ports shall be located on the left and right side of the trough.

4. **SPINNER:**

- a. The spinner shall consist of a disc and six (6) vanes formed into a single unit from polyurethane, resulting in a flat trajectory and a uniform spreading pattern from four (4) to forty (40) feet. The spinner assembly shall be adjustable allowing for variable spreading pattern left or center. This will be accomplished by sliding the hinged frame sideways on the shaft so that the point at which the material hits the spinner disc is varied. The entire spinner assembly shall be easily removed by pulling two (2) pins and uncoupling two (2) hydraulic "quick" disconnect hoses. The spinner speed and the auger feed rate shall both be variable through the optional dual flow or servo valve system. The 18" diameter polyurethane spinner disc will be mounted directly onto the hydraulic motor shaft by means of a cast iron spinner hub. The spinner 304 assembly will be a universally mounted parallel arm to keep the spinner horizontal to the road at all dump angles. A spinner shield shall be provided to prevent material from striking the truck. Spinner to be offset to the driver side approximately 12 inches for better view by the driver.

5. **POWER TRAIN:**

- a. There shall be a hydraulic 'orbital type' motor capable of delivering high torque at low speeds, power both the spinner and the auger. A large high torque for auger mount each directly into the auger shaft. The independent spinner motor shall mount directly to the spinner disc eliminating any power loss by

transmission. The spinner speeds and auger feed rate are both variable and can be calibrated in relationship to ground speed.

6. MOUNTING:

- a. The spreader shall fasten to the side of the dump body using quick disconnect pins for quick mounting and removal of spreader without use of special tools.
- b. One LED sander light, D.O.T. approved.
- c. The hydraulic hoses for the auger motor shall be connected with quick couplers (Pioneer-Series 6600) on the rub rail, right side of box, protective guards dust covers and plugs.
- d. The hydraulic hoses for the spinner motor shall be connected with quick couplers (Pioneer-Series 6600) on the rub rail, left side of box, protective guard, dust covers and plugs.

7. PARTS AND SERVICE MANUALS

- a. Vender shall supply Parts and Safety Manuals.

8. DELIVERY DATE:

- b. Vendor must supply delivery date. \_\_\_\_\_

- 9. All vendors must supply a complete list of all components they are bidding.

Contract #20-19E 9" Auger/Spreader