

**14 Cubic Yard Dump Body for 66,000 GVWR 110" CT Truck**

14 cubic yard water level capacity dump body ("Dump Body"), new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

**Proposed Dump Body:** Make: \_\_\_\_\_ Model: \_\_\_\_\_

**Proposed Hoist:** Make: \_\_\_\_\_ Model: \_\_\_\_\_

Non-Restrictive Clause: Any use of brand name or equal within this specification is to be considered a reference for the purpose of describing the standard of quality, performance, and characteristics desired. It is not intended to limit or restrict competition.

**The bidder must respond to each of the following statements.** Specifications listed are **minimum** requirements that must be met for a bidder to qualify for an award. A "YES" response means the bidder guarantees that they meet or exceed the requirement. A "NO" response means the bidder cannot meet the requirement and will not be considered. The bidder must supply printed literature that shows compliance with each requirement of the Specifications and, if on inspection, an item is found not to comply, the Dump Body will be rejected.

**Descriptive literature shall be furnished to substantiate the details specified throughout this bid.**

**SPECIFICATIONS**

**Capacity:** 14 cubic yards water level; 16 cubic yards ends

Capacity (cubic yards) Water Level: \_\_\_\_\_ Capacity (cubic yards) End: \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Length:** 168 inches inside dimension

Length (inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Width:** 87 inches inside dimension

Width (inches): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Construction:** All steel is to be abrasion-resistant ASTM AR-450; welded joints are to be welded solid.

- Floor: 1/4-inch smooth steel, one-piece
- Sides: 1/4-inch
- Front: 1/4-inch
- Tailgate: 1/4-inch
- Longitudinal: 5-inch structural channel
- Cross Members: 4-inch structural channel on 12-inch centers

**Comply Yes/No:** \_\_\_\_\_

**Tailgate:** Straight boxed channel – reinforced, air latch

**Comply Yes/No:** \_\_\_\_\_

**Hardware:** Heavy-duty steel

**Comply Yes/No:** \_\_\_\_\_

**Hoist Frame:** Structural or 1/4-inch plate-formed channel

**Comply Yes/No:** \_\_\_\_\_

**Hoist Cylinder:** Front mounted NTEA rated class 110 telescopic; lifting capacity 74,000 pounds; conversion hoist not acceptable.

Lifting Capacity (pounds): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Paint:** Manufacturer's standard Black

**Comply Yes/No:** \_\_\_\_\_

**Power Takeoff (PTO):** To be designed specifically for the Allison 4000 RDS Series Automatic Transmission (This is the transmission that is currently installed in MDOT T/A dump trucks) and shall be equal to the Muncie CS24, Chelsea 280 Series, or equivalent having pressure lubrication, 12-volt hydraulic shift, over-speed control, and SAE "B" type hydraulic mounting flange.

Must be mounted with a shaft extension device, which is designed to fit on an Allison 4000 RDS Series Automatic Transmission.

The PTO is to run at 115% of engine speed.

The direct PTO-mounted hydraulic pump (no open drive shaft) shall be a tandem gear type with cast iron housing, replaceable wear plates, and needle or roller-type bearings.

Pump to be rated for 2000 PSI, 24 GPM at 1500 RPM (pump speed) for dump body and 2000 PSI, 24 GPM, at 1500 RPM (pump speed) for spreader.

A remote-mounted air control valve (3 way / 3 position) to be supplied with console air control in cab to operate dump body, with neutral lock located between seats.

The system shall be designed so that at a later date, a spreader can be installed and powered by the hydraulic pump and to have adequate capacity to handle hydraulic flow without overheating.

A 30-gallon hydraulic reservoir to be frame mounted on passenger's side with a direct mounted replaceable cartridge type return line hydraulic oil filter located for easy servicing.

Four (4) channel tie-down brackets for slide-in spreader, one (1) on each outside corner of the body.

**Comply Yes/No:** \_\_\_\_\_

**Lights:** Clearance lights, to be 2-inch round, LED, sealed, 2 prong lights, flush mounted.

Stop/Tail/Turn Lights to be 6-inch oval LED lights, one (1) in each rear corner post. Lights to be snap-in shockproof-type with plug-in connectors mounted vertically in a standard 6-inch stainless steel recessed light mount in the rear sidewalls of the dump body.

Amber LED mini light bar per MDOT statewide vehicle safety lighting contract mounted to the cab protector with switch control in cab. Bidder is to contact the receiving MDOT district equipment manager for mounting information and light choice.

Four (4) corner LED lights consisting of two (2) light heads of six (6) high-intensity LED's mounted vertically on the grill at the front outside corners and two (2) light heads consisting of six (6) high-intensity LED's mounted vertically in a standard 6" stainless steel recessed light mount in the rear sidewalls of the dump body. Approved lights are in the MDOT statewide vehicle safety lighting contract. Vendor is to contact the receiving MDOT district equipment manager for light choice.

All lights, wiring, and reflectors shall be installed to meet ICC Regulations (FMVSS108).

All electrical wiring shall be covered with split loom, convoluted tubing to protect wiring from chaffing and other mechanical damage, except for the wiring around the top or side of the loading area of the bed (i.e., Cab Protector), which shall be covered in electrical metal conduit.

**Comply Yes/No:** \_\_\_\_\_

**Pintle Hook:** A 30-ton capacity forged pintle hook mounted on a 3/4-inch plate with two (2) 5/8-inch forged "D" rings for safety chains. Mounting height to be 28 inches from ground to center of pintle hook. The pintle hook plate must be gusseted to frame. The pintle hook shall be bolted on for a permanent connection to vehicle.

Pintle Hook Capacity (ton): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Tarp System:** The Dump Body shall include an automatic tarp system with an asphalt tarp mounted in cab shield. The separate switch shall be included in cab for activation of the automatic tarp system. Tarp covering shall be made from 18 ounces (weight), 22 mils (thickness), vinyl-coated material. The tarp system shall contain L- shaped braces/arms.

Tarp Covering Weight (ounce): \_\_\_\_\_ Tarp Covering Thickness (mil): \_\_\_\_\_

**Comply Yes/No:** \_\_\_\_\_

**Accessories:**

- 7-pin electrical connector (12-gauge wire with 10-gauge ground), flush mounted and rear air connections, plumbed to rear of truck frame. All connections to be complete and operational.
- Cab protector: 24-inch x full-width protection with 4-inch integral wind deflector made of a minimum 10-gauge sheet steel with 7-gauge (minimum) side braces.
- Mudflaps
- Asphalt apron: 8-inch constructed of 1/4-inch plate with 1/4-inch side wings.
- Glad Hands: Bidder is to contact receiving District Equipment Manager for mounting information.

**Comply Yes/No:** \_\_\_\_\_

**Access Ladder:** Shall be provided to allow access to the bed from behind the cab, driver's side.

Shall withstand a minimum of 450 pounds of static weight.

Static Weight (pounds): \_\_\_\_\_

Allow for three (3) points of contact at all times, which can be accomplished through the use of gas tank-mounted steps in conjunction with welded rungs and handrails on the bedside or with a complete mounted ladder.

Ladder shall not interfere with ground clearance, dumping, or other normal operation of the vehicle to which it is mounted.

**Comply Yes/No:** \_\_\_\_\_

#### **ADDITIONAL REQUIREMENTS**

**Service:** The Dump Body shall be delivered fully assembled and ready to operate. Factory-trained dealer representative is to inspect the Dump Body upon delivery and provide receiving MDOT equipment manager with information on operational, service, and maintenance requirements.

Bidder shall maintain a representative inventory of replacement parts and service facilities as well as all necessary diagnostic tools/equipment/software and software licenses needed for diagnosis, repair, service, and maintenance.

**Acknowledge Yes/No:** \_\_\_\_\_

**Workmanship:** Workmanship throughout shall conform to the highest standard of commercially accepted practice for the class of work and shall result in a neat and finished appearance. The design which the manufacturer proposes must be of substantial and durable construction in all respects.

All parts shall be new. Used, reconditioned, or obsolete parts will not be accepted.

**Acknowledge Yes/No:** \_\_\_\_\_

**Warranty:** Clearly stated terms and conditions of all manufacturer warranties shall be included with the bid package. All materials, specialty equipment, or accessories that prove defective in normal operation within the warranty period shall be replaced or repaired by the manufacturer free of all cost to MDOT, including all material, labor, and transportation costs. Warranty replacement and/or repairs shall be furnished promptly by the successful bidder within a time not to exceed thirty (30) calendar days. **The bidder shall provide written assurance with the bid package regarding warranty repairs.**

The delivering dealer will have sole warranty responsibility (**all components**) for the first ninety (90) calendar days after acceptance of the Dump Body.

The manufacturer shall provide, with the bid package, a list of warranty service locations within the State of Mississippi for all components of the Dump Body (body, chassis, electrical, etc.) which may need warranty repair beyond the first ninety (90) calendar days.

**Acknowledge Yes/No:** \_\_\_\_\_

**Parts Availability:** Dealer name and contact information located closest to the point of delivery:

Dealer Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

Street Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

**Acknowledge Yes/No:** \_\_\_\_\_

**Tests and Testing:** The complete Dump Body and all working and moving parts and operating devices shall be thoroughly tested and put in operating condition by the manufacturer.

Prior to acceptance of vehicle by MDOT, the manufacturer shall service and adjust vehicle for operation.

**Acknowledge Yes/No:** \_\_\_\_\_

**Literature:**

**Technical manuals:** Operator's manual, service/maintenance manual, and parts book are to be made available in both hard copy and electronic (PDF file format on USB flash drive) versions. One set of technical manuals shall be provided with each Dump Body upon delivery. Additional manuals may be ordered later.

**Technical service bulletins:** Successful bidder shall provide TSBs (technical service bulletins) for all Dump Body(s) delivered to MDOT as they are published, regardless of the date of delivery. TSBs may be furnished in paper or electronic format and shall be updated regularly.

The following additional information shall be provided by the vendor at time of delivery (electronically if possible):

- Manufacturer's recommended service/preventive maintenance intervals
- Recommended fluids, lubricants, and their SAE equivalents.

**Two (2) copies of descriptive literature shall be furnished to substantiate the details specified in the bid.**

**Acknowledge Yes/No:** \_\_\_\_\_

**Certification:** The manufacturer(s) shall furnish certification that the Dump Body meets or surpasses current U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Regulations, U.S. Department of Transportation Federal Motor Vehicle Safety Standards (FMVSS), and any other applicable Federal regulations.

**Acknowledge Yes/No:** \_\_\_\_\_

**Certificate of Origin (if applicable)**

**Mailing address:** Mississippi Department of Transportation, 9301  
P.O. Box 1850  
Jackson, MS 39215

**Acknowledge Yes/No:** \_\_\_\_\_