

19,500 GVWR Articulated/Telescopic Platform, Truck Mounted, 54-Foot Working Height

Articulated telescopic platform, 54-foot working height, 4-wheel drive truck mounted (hereinafter referred to as "Platform Truck"), equipped with utility body, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Proposed Articulated /Telescopic Platform: Make: _____ Model: _____

Proposed Truck: Make: _____ Model: _____

Proposed Utility Body: 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 Platform Truck will be rejected.

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

SPECIFICATIONS

Articulated Telescopic Bucket and Body

Platform/Insulated Bucket: The platform/insulated bucket shall be equipped with a self-leveling device, safety belt "hook-in" fitting, safety belt, and 180-degree hydraulic swivel to rotate the platform. Minimum working load of 500 pounds and minimum tipping load of 450 pounds in all positions. The height from the ground to the platform floor is 49 feet when mounted on a 1 ½ ton chassis. The working radius from the center line of rotation is 30 feet minimum. The overall height in the travel position is 13 feet maximum. The lower boom articulation is 0 degrees to 84 degrees. The upper boom articulation is -25 degrees to 85 degrees. Inner boom extension 103 inches. The rotation shall be a continuous 360 degrees.

Minimum working load (pounds): _____

Minimum tipping load (pounds): _____

Height from ground to platform floor (feet): _____

Working radius from center line of rotation (feet): _____

Overall height in travel position (feet): _____

Lower boom articulation (degrees, highest to lowest): _____

Upper boom articulation (degrees, highest to lowest): _____

Inner boom extension (inches): _____

Comply Yes/No: _____

Hydraulic system: The hydraulic pump shall be driven by a hot shift PTO mounted to the transmission. It shall be of sufficient size to operate all functions. The system shall have double-acting hydraulic cylinders to operate the upper and lower booms; all cylinders equipped with pilot-operated check valves to hold the load in the event of system failure; rotation to be driven by a hydraulic motor; equipped with all lines, hose fittings, valves, filters, and reservoir required to perform the function of the platform.

Comply Yes/No: _____

Controls: To be equipped with controls that can be operated from the platform and override controls that can be operated from the ground or truck platform; to have an engine start and stop switch located at the platform, and manual two-speed throttle control

Comply Yes/No: _____

Emergency Controls: To be a part of the hydraulic system for the ability to lower the platform in an emergency due to power loss and/or accident. This is to be accomplished from a platform or at ground level, depending on the emergency situation.

Comply Yes/No: _____

Lower Boom Assembly: Lower boom assembly to include a lower boom, compensation link, and hydraulic cylinder. The rectangular 8 inches by 10 inches steel lower boom is to be actuated by a double-acting cylinder with two integral holding valves. The lower boom and compensation link forms a parallelogram linkage to maintain the knuckle at a constant angle to the turret. The boom must be insulated. To get a higher reach, add a taller pedestal or 24-inch platform elevator.

Lower boom size: Height (inches): _____ Lower boom size: Width (inches): _____

Comply Yes/No: _____

Outer/Inner Boom Assembly: The outer/inner boom assembly to include an outer boom, telescopic inner boom, extension system, and hose assemblies. The boom must be insulated. The outer boom consists of an 8-inch by 10-inch steel section. The 6-inch by 8-inch rectangular steel inner boom is to be housed within the outer boom. The extension system consists of an extension cylinder, holding valves, and a hose carrier housed inside the boom. The hoses are routed through the outer/inner boom assembly to be fully contained within the boom assembly.

A double-acting cylinder with two integral holding valves to articulate the outer/inner boom assembly. A boom support cradle and a boom tie-down strap are to be included.

Outer boom size: Height (inches): _____ Width (inches): _____

Inner Boom Size: Height (inches): _____ Width (inches): _____

Comply Yes/No: _____

Utility Body: To be a minimum of 132 inches in length, designed for dual wheel chassis having an 84-inch C.A., all welded construction; minimum 16-gauge steel outside panels and 14-gauge steel end panels.

Utility body length (inches): _____

C.A. length (inches): _____

To have compartments along both sides:

- Vertical compartments to include two (2) adjustable shelves with at least one (1) set of shelves having removable dividers.
- Horizontal compartments to have at least one (1) containing a fixed shelf with removable dividers.
- All compartments are to be equipped with keyed-alike locks and interior LED lighting.

The floor of the body and top of compartments shall be 12-gauge safety-tread steel. Equipped with a heavy-duty 36-inch tail shelf and ICC-type rear bumper, access steps on the curbside of the tail shelf with a grab handle to the left of the steps and a 12-inch aluminum grab handle on the rear of the body; grip strut or equivalent step installed below the stairwell. There shall be a through box compartment incorporated in the tail shelf with a door in the step area. Spare tire carrier located behind front driver side; inside bed storage bracket to adequately support booms while in transit; LED lights and reflectors to meet ICC regulations; entire sub-frame and underbody to be undercoated.

Comply Yes/No: _____

Material Handling Jib Crane and Winch: The material handling function shall include a 600-pound winch-operated jib crane positioned on the street side of the boom. The jib crane shall be hydraulically controlled, allowing the operator to position the load vertically with a control valve located at the upper control station. The jib crane pole shall be hydraulically adjustable to the required length of reach. A load chart near the operator's control station shall inform the operator of the jib crane and boom-carrying capacities. The hydraulic jib crane cylinder shall include its own holding valve, which prevents cylinder creep and locks the cylinder in the event of hydraulic hose failure.

The self-locking worm gear winch shall be controlled from both the upper and lower control stations.

55 feet of double-braided polyester rope with a clevis hook shall be provided.

Comply Yes/No: _____

Torsion Bar Stabilization: To have a torsion bar system installed from the rear axle to the vehicle frame. Brackets are to be installed to prevent the rear spring eye from breaking. Front axle to have Timbren or equal rubber cushions. Outriggers to be installed. Stability to be achieved with or without the use of outriggers.

Comply Yes/No: _____

Independent Outriggers: The Platform Truck shall have two sets of narrow-angle modified a-frame outriggers that are shear-plate mounted to the frame and are equipped with pilot-operated check valves, internal thermal relief valves, pivot feet, and separate controls. Outrigger dimensions to vary with chassis application. For a 37 $\frac{1}{4}$ inch-frame height, the outriggers furnish 101 $\frac{3}{4}$ inches of spread, 7 $\frac{3}{4}$ inches of penetration, and 15 $\frac{3}{4}$ inches of ground clearance. The front set shall be mounted between the cab and bed, and the rear set shall be mounted at the rear of the body.

Frame height (inches): _____

Outriggers furnish (inches): _____

Penetration (inches): _____

Ground clearance (inches): _____

Comply Yes/No: _____

Cab Chassis Truck

GVWR: 19,500 pounds

GVWR (pounds): _____

Comply Yes/No: _____

CA Dimension: 84-inches

CA dimension (inches): _____

Comply Yes/No: _____

Engine: 6-liter, 360-horsepower, water-cooled, diesel, torque of 800 pound-feet, meeting all current federal and EPA requirements

Make: _____ Model: _____

Displacement (liters): _____ Power (horsepower): _____

Torque (pound-feet): _____

Comply Yes/No: _____

Engine Protection: Platform Truck shall have an automatic shutdown system to include oil pressure, oil temperature, coolant temperature, and intake manifold temperature.

Comply Yes/No: _____

Cooling System: Heavy-duty, high-capacity radiator, silicone hoses, designed for vocational-duty application.

Comply Yes/No: _____

Transmission: Heavy-duty, fully automatic, 6-speed, heavy-duty oil cooler, designed for on-road/off-road operations, geared for highway speeds up to a minimum top speed of 75 MPH with a fully loaded truck

Make: _____ Model: _____

Comply Yes/No: _____

Brakes: Power-integral

Manufacturer: _____ Type: _____

Comply Yes/No: _____

Axle Rating and Suspension:

Front: 7,000-pound rated, multi-leaf springs with shock absorbers, setback configuration, disc brake compatible hubs, 4-wheel drive

Manufacturer: _____

Axle type: _____ Weight rating (pounds): _____

Suspension type: _____ Weight rating (pounds): _____

Rear: 13,500-pound rated, multi-leaf springs, single-speed, with full locking differential (driver operated), disc brake compatible hubs, 4-wheel drive

Manufacturer: _____

Axle type: _____ Weight rating (pounds): _____

Suspension type: _____ Weight rating (pounds): _____

Comply Yes/No: _____

Electrical: One (1) 12-volt, 90-amp alternator. Two (2) 12-volt maintenance-free batteries, 650 CCA. Battery to be contained in a lockable, rust-proof metal battery box.

Alternator Amp rating: _____ Battery Power (CCA): _____

Comply Yes/No: _____

Fuel System: 50-gallon tank capacity, any configuration, dual-stage fuel filters

Number of tanks: _____ Capacity per tank (gallons): _____

Comply Yes/No: _____

Steering: Power-integral

Comply Yes/No: _____

Frame: All grade 8 bolts and hardware for assembly. Huck bolts will not be acceptable. Minimum 80,000 PSI high strength, low alloy steel

Comply Yes/No: _____

Driveline: Heavy-duty U-joint

Comply Yes/No: _____

Tires: All tires must be rated equal to or higher than axle and suspension weight specifications. Steel radial, highway tread, high mileage steer axle type front; all seasons, on-road/off-road, high mileage rear drive axle type duals and spare.

Comply Yes/No: _____

Wheels: Must be rated equal to or higher than axle and suspension weight specifications

Front: Pilot 22.5 x 8.25, steel wheel heavy-duty

Rear: Pilot 22.5 x 8.25, 10-hole disc, steel wheel heavy-duty

Comply Yes/No: _____

Back-up Alarm: Smart, self-adjusting alarm system which is activated upon engagement of the reverse gear of the vehicle, is audible above normal outdoor sounds, and meets FMVSS requirements. The backup warning alarm shall be mounted on the rearmost part of the vehicle, be protected from water and road spray, and meet a minimum of 82 dB up to 107 dB depending on surrounding ambient noise levels.

Comply Yes/No: _____

Back-up Camera: Complete, fully functional, and operational back-up camera system providing a clear view of the area directly behind the vehicle to allow safe reverse travel of the vehicle.

Comply Yes/No: _____

Equipment: All standard equipment, including but not limited to:

- Five (5) cab-mounted marker lights,
- OEM side steps on both driver and passenger sides for entering and exiting the vehicle
- Power and heated exterior side mirrors
- Power windows and door locks
- Sun Visors (RH and LH),
- Two (2) cup holders
- High-visibility orange safety belts
- Factory air conditioning and heater with defroster
- All dash switches including spares shall be functional
- Warning lights and buzzers for air pressure, oil pressure, and water temperature
- Direct reading gauges for oil pressure, water temperature, and air pressure
- Tachometer
- 12-volt accessory dash-mounted power outlet
- AM/FM Bluetooth stereo radio with a hands-free option
- Tinted glass all around
- Multi-speed electric windshield wipers and washers with intermittent mode
- Tilt steering column
- Cruise Control
- Front tow hooks
- Heavy-duty front bumper
- Any other bodybuilder wiring not included that would be needed to set up and run a flatbed-mounted aerial lift truck with toolboxes and lighting with enough to terminate at the end of frame.
- Holder for operator's manuals
- Black undercoating applied to the underside of body.
- Triangle reflector kit
- A U/L approved 2 ½ pound BC dry chemical fire extinguisher shall be installed in the truck cab.

Comply Yes/No: _____

Hitch: Class 3 receiver-type hitch. The hitch shall be a frame-mounted (bolt-on) style. The hitch shall be mounted so the receiver will protrude through the rear bumper. Drawbars will be furnished by MDOT.

There shall be a flush-mounted 7-pin electrical connector (12-gauge wire with 10-gauge ground) on the rear bumper area. The vendor shall furnish a matching male connector with the unit.

Comply Yes/No: _____

Paint: Truck chassis to be manufacturer's standard white. All others are to be the manufacturer's standard color.

Comply Yes/No: _____

ADDITIONAL REQUIREMENTS

Service: The Platform Truck shall be delivered fully assembled and ready to operate. Factory-trained dealer representative is to inspect the equipment 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 vehicle.

The manufacturer shall provide, with the bid package, a list of warranty service locations within the State of Mississippi for all components of the Platform Truck (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 Platform Truck 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 Platform Truck upon delivery. Additional manuals may be ordered later.

Technical service bulletins: Successful bidder shall provide TSBs (technical service bulletins) for all Platform Truck(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 Platform Truck 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: _____

NOTE: The Mississippi Department of Transportation is exempt, by way of contractual purchases, from Regulation Eleven and the protections provided by the Mississippi Motor Vehicle Commission. A written notice, established by public hearing on April 21, 2010, at 10:00 a.m., is on file with the Mississippi Motor Vehicle Commission, 1755 Lelia Drive, Suite 200, Jackson, MS 39216.

As a second stage or "specialty vehicle" manufacturer, you are not required to hold a Mississippi Manufacturer or Dealers' License and if you choose, may sell the finished motor vehicle directly to the Mississippi Department of Transportation.

Acknowledge Yes/No: _____

Vehicle Title or Certificate of Origin:

Assignment: State of Mississippi/DFA – 941

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

Acknowledge Yes/No: _____

Lienholder: Upon award, if MDOT issues a **Notice to Proceed** instead of a **Purchase Order**, the Platform Truck is being purchased through the State's Master Lease Purchase Program and the specified financial institution must be listed as Lienholder.

Acknowledge Yes/No: _____