

Articulated/Telescopic Bucket, Truck Mounted, 42-Foot Working Height

Articulated telescopic bucket, 42-foot working height, truck mounted (hereinafter referred to as "unit"), 4-wheel drive, equipped with utility body, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Articulated/Telescopic Bucket Proposed:	Make: _____	Model: _____
Truck Proposed:	Make: _____	Model: _____
Utility Body Proposed:	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 units(s) will be rejected.

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

SPECIFICATIONS

Articulated Telescopic Bucket and Body

Capacity: One (1) bucket, working load of 300 pounds and tipping load of 450 pounds in all positions, height from ground to bucket floor to be 37 feet when mounted on a truck chassis, working radius from center line of rotation to be 27 feet, overall height in travel position to be 13 feet maximum, lower boom travel to be 0 degrees to +94 degrees, upper boom travel to be -17.5 degrees to +75 degrees, rotation to be 360 degrees continuous.

Minimum working load (pounds): _____

Minimum tipping load (pounds): _____

Height from ground to platform floor (feet): _____

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

Lower boom arc of travel (degrees above/below horizontal, highest to lowest): _____

Upper telescopic boom arc of travel (degrees above/below horizontal, highest to lowest): _____

Overall height in travel position (feet): _____

Comply Yes/No: _____

Hydraulic system: The hydraulic pump shall be engine-mounted, belt-driven. 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 to be equipped with pilot-operated check valves to hold load in case of system failure; rotation to be driven by hydraulic motor; to be equipped with all lines, hose fittings, valves, filters, and reservoir required to perform the function of the bucket.

Comply Yes/No: _____

Controls: To be equipped with controls that can be operated from the bucket and override controls that can be operated from the ground or truck platform; to have engine start and stop switch located at the bucket, 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 bucket in an emergency due to power loss and/ or accident. This to be done from bucket or at ground level.

Comply Yes/No: _____

Booms: Lower boom to be 6-inch (height) by 8-inch (width) minimum, high-tensile steel with fiberglass insert providing a 12-inch minimum insulation gap.

Lower boom size: _____ inches (height), by _____ inches (width)

Outer boom to be 8-inch (height) by 10-inch (width) minimum, high-tensile steel.

Outer boom size: _____ inches, (height) by _____ inches (width)

Inner boom to be fiberglass 5-inch (height) by 7-inch (width) by 174-inch (length), mounted on a turret and pedestal; turret provides 360-degree rotation in either direction; pedestal has access opening and hydraulic reservoir.

Inner Boom Size: _____ inches (height), by _____ inches (width), by _____ inches (length)

The aerial device shall be equipped with sheer ball rotation bearing and worm gear drive.

The aerial device shall be tested and certified for 46KVA in accordance with ANSI A92.2 Category "C" dielectric requirements.

Comply Yes/No: _____

Bucket: One (1) bucket, 24-inch (height) by 30-inch (width) by 42-inch (depth), constructed of fiberglass reinforced plastic; mounted on the upper end of upper boom; equipped with insulated self-leveling device, safety belt "hook-in" fitting, safety belt, waterproof cover, and 180-degree hydraulic bucket swivel to rotate the bucket; hydraulic tilt at upper controls for man rescue or to dump water and debris

Bucket size: _____ inches (height), by _____ inches (width), by _____ inches (length)

Comply Yes/No: _____

Liner: A 24-inch (height) by 30-inch (width) liner shall be provided to fit inside the fiberglass bucket. The liner shall be designed to be supported by the bottom of the bucket. The liner should include a lip that fits over the top of the fiberglass bucket to prevent sharp objects from lodging between the bucket and the liner. The liner shall have a molded integral non-slip step inverted inside of the liner to assist in entry/exit. The liner shall be certified to 70kV (Kilovolt) minimum.

Liner size: _____ inches (height), by _____ inches (width)

Certified Kilovolt: _____

Comply Yes/No: _____

Utility Body: To be a minimum 105 inches in length, designed for dual wheel chassis having a 60-inch C.A., all welded construction; minimum 16-gauge steel outside panels and 14-gauge steel end panels.

Utility body: _____ inches (length)

Steel – outside panels: _____ gauge

Steel – end panels: _____ gauge

To have compartments along both sides:

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

Floor of body and top of compartments to be 12-gauge safety-tread steel. To be equipped with heavy duty 36-inch tail shelf and ICC-type rear bumper, access steps on curbside of tail shelf with grab handle to the left of the steps and a 12-inch aluminum grab handle on the rear of the body; grip strut step installed below stairwell. There shall be a through box compartment incorporated in the tail shelf with door in 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.

Steel – floor of body and top of compartments: _____ gauge

Tail shelf: _____ inches

Comply Yes/No: _____

Cab Chassis Truck

GVWR: 19,500 pounds

GVWR: _____ pounds

Comply Yes/No: _____

CA Dimension: 60 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: Truck shall have automatic shutdown system to include oil pressure, oil temperature, and coolant temperature.

Comply Yes/No: _____

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

Comply Yes/No: _____

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

Make: _____ Model: _____

Type: _____ Speeds: _____

Comply Yes/No: _____

Brakes: Hydraulic, disc, ABS with 4 channel/4 sensor/4 modulator configuration for front and rear axle compatibility, sized to meet all applicable state and federal safety standards for size, weight and application of truck. Mechanical spring-set rear axle parking brakes.

Manufacturer: _____ Type: _____

Style (disc/drum/etc.): _____ ABS configuration (4S/4M, etc.): _____

Comply Yes/No: _____

Axle Rating and Suspension:

Front: 6,500-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, 600 CCA, combined total 1,200 CCA. Batteries to be contained in a lockable, rust-proof metal battery box.

Alternator:

Manufacturer: _____

Amp rating: _____

Battery:

Power (CCA per battery/total CCA): _____

Comply Yes/No: _____

Fuel System: 30-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: _____

Driveline: 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.

Front:
Manufacturer: _____ Size: _____

Rear:
Manufacturer: _____ Size: _____

Comply Yes/No: _____

Wheels: Must be rated equal to or higher than axle and suspension weight specifications, disc brake compatible.

Front: Pilot 22.5 x 9, 10-hole disc, steel, hub piloted

Rear: Pilot 22.5 x 8.25, 10-hole disc, steel, hub piloted

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 back-up warning alarm shall be mounted on the rearmost part of the vehicle, be protected from water and road spray, and meet a minimum 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 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 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 body builder 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 end of frame
- Holder for operator's manuals

- Black undercoating applied to 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: _____

Torsion Bar Stabilization: To have torsion bar system installed from rear axle to vehicle frame. Brackets are to be installed to prevent 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 use of outriggers.

Comply Yes/No: _____

Outriggers: The truck shall have two (2) hydraulically operated dropdown outriggers located on each side of the truck behind the cab and in front of the rear axle. The Outriggers shall be operated from both sides of the rear of the body. There shall be an indicator light on the truck dash to indicate that the outriggers are in the un-stowed position.

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 are to 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 other to be manufacturer's standard color.

Comply Yes/No: _____

ADDITIONAL REQUIREMENTS

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

The manufacturer shall provide, with the bid package, a list of warranty service locations within the State of Mississippi for all components of the unit (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 unit and all working and moving parts and operating devices shall be thoroughly tested and put in operating condition by the manufacturer.

Prior to acceptance by MDOT, the manufacturer shall service and adjust the unit 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 unit upon delivery. Additional manuals may be ordered later.

Technical service bulletins: Successful bidder shall provide TSBs (technical service bulletins) for each unit(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 unit 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: _____

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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: _____

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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 unit is being purchased through the State's Master Lease Purchase Program and the specified financial institution must be listed as Lienholder.

Acknowledge Yes/No: _____