

# Attachment B

## Specifications

Articulated Platform- Truck Mounted – 80  
Foot Working Height

**Articulated Platform – Truck Mounted – 80 Foot Working Height**

Articulated platform – truck mounted – 80 foot working height, mounted on truck equipped with flatbed body, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

**Articulated/Telescopic  
Platform Proposed:**

Make: \_\_\_\_\_ Model: \_\_\_\_\_

**Truck Proposed:**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ GVWR: \_\_\_\_\_

**Flat Bed Body  
Proposed:**

Make: \_\_\_\_\_ Model: \_\_\_\_\_ Capacity: \_\_\_\_\_

**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.

**SPECIFICATIONS**

General: Articulated Platform Truck with one (1) platform, minimum working load of 800 lbs. Height from ground to platform floor to be 75' when mounted on chassis, working radius from center line of rotation to be 46' minimum, overall height from ground in travel position to be 13' or less, lower boom travel to be 0° to +88°, outer/inner boom travel -25° to +75°, rotation to be 360° continuous.

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

Cab to Axle: 138" (minimum)

CA: \_\_\_\_\_

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

GVWR: 33,000 lb. (minimum)

GVWR: \_\_\_\_\_

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

Engine: 6.6L, minimum, water-cooled, diesel, minimum 330 hp, torque of 725 lb.-ft., meeting all current federal and EPA requirements

Make: \_\_\_\_\_ Model: \_\_\_\_\_

HP: \_\_\_\_\_ Torque: \_\_\_\_\_

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

Transmission: Heavy-duty, fully automatic, 6-speed (minimum), heavy-duty oil cooler

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Type: \_\_\_\_\_ Speeds: \_\_\_\_\_

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

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Brakes: Power, 4-channel ABS

Make: \_\_\_\_\_ Model: \_\_\_\_\_

Type: \_\_\_\_\_

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

Axle Rating and  
Suspension:

Front – 13,000 lb. minimum, shock absorbers

Rear – 20,000 lb. minimum

Axle rating:

Front: \_\_\_\_\_ Rear: \_\_\_\_\_

Axle description:

Front: \_\_\_\_\_ Rear: \_\_\_\_\_

Gear ratio: \_\_\_\_\_

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

Cooling System: Heavy-duty

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

Electrical: 12-volt, 200-amp alternator; dual 12-volt maintenance-free batteries, 750 CCA

Alternator:

a. Manufacturer: \_\_\_\_\_

b. Amp rating: \_\_\_\_\_

Battery size and capacity: \_\_\_\_\_

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

Frame: Section Modulus 15", Bending Moment 750,000 in.-lbs.

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

Fuel Tank: 50-gallon minimum, any configuration

Number of tanks: \_\_\_\_\_

Capacity per tank: \_\_\_\_\_

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

Steering: Power – integral

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

Driveline: Heavy-duty u-joint

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

Tires: Steel radial, highway tread front, all season rear dual and spare

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

Wheels: 19.5" diameter

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

Back-up Alarm: Smart alarm system which is activated upon movement of the vehicle; audible above normal outdoor and construction sounds

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

Cab Equipment: All standard equipment including, but not limited to: five cab-mounted marker lights, vinyl seats, factory air conditioning and heater with defroster, direct reading gauges for oil pressure and water temperature, tachometer, AM/FM Bluetooth stereo radio with hands-free option, dual air horns, warning lights and buzzers for oil pressure and water temperature, all dash switches including spares shall be functional, RH and LH west coast mirrors, convex auxiliary mirrors (LH & RH), tinted glass all around, multi-speed electric windshield wipers and washers with intermittent mode, tilt steering column, high-visibility orange safety belts, front tow hooks, heavy-duty front bumper.

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

Control System: The system shall have a single-stick upper control which consists of a multi-jointed handle that operates all four (4) functions of the control valve. A safety trigger located on the underside of the single stick handle will not allow boom movement until it is depressed. An emergency stop control shall be provided.

Individual full-pressure controls located at the turret shall actuate all boom functions. The lower control station shall be equipped with a selector valve to override the upper controls.

The hydraulic control valves will be full pressure and full flow.

The start/stop system shall be designed so that the lift cannot be operated normally unless the unit power switch is activated and the truck ignition is in the "on" position. This will make it difficult for unauthorized individuals to operate the lift when the truck is locked. Start/stop controls shall be located at the upper and lower control stations.

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

Outer/Inner

Boom Assembly: The outer/inner boom assembly shall be comprised of an outer boom, telescopic inner boom, extension system, and hose assemblies. The outer boom shall consist of a 10 in. x 12 in. steel section, a 12 in. x 14 in. fiberglass section that allows the boom tip to maintain a 62 in. insulation gap when the inner boom is fully retracted. The 9-1/4 in. x 11-1/4" in. rectangular fiberglass inner boom is housed within the outer boom. The inner boom shall be easily removed and disassembled for service and inspection.

The extension system shall consist of a hydraulic cylinder, two integral holding valves, and dual #60 roller chains housed entirely within the boom assembly. The hoses shall be routed through the outer/inner boom assembly and be non-conductive and fully contained within the boom assembly. The inner boom extension shall be a minimum of 141 in. and the insulation gap shall be a minimum of 179 in. when fully extended.

There shall be a lifting eye attachment near the end of the outer boom rated for 1,000 lbs. maximum capacity.

The outer/inner boom assembly shall be tested and certified for 69 KVA in accordance with ANSI A92.2-2001 category "B" dielectric requirements.

The outer/inner boom assembly shall articulate from 25° below horizontal to 75° above horizontal.

A boom support cradle and a ratchet-type boom tie down strap are included.

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

**Lower Boom  
Assembly:**

There shall be a high-strength fiberglass insert (chassis insulating system) installed over each end of the rectangular 10 in. x 12-in. high strength steel section.

The lower boom design includes a parallelogram linkage that maintains the knuckle at a constant angle to the turret.

The chassis insulation system/lower boom fiberglass insert shall provide a minimum insulation gap of 24 in. and the fiberglass section in the compensation link shall maintain the 24 in. (minimum) insulation gap in all boom positions.

The steel and fiberglass sections shall be bonded with pressure-injected epoxy to fill any voids and after the adhesive cures, 32 bolts shall be added to assure maximum strength.

The double acting cylinder, with an integral holding valve, shall allow the lower boom to articulate from horizontal to 92° above horizontal.

A stainless steel stud shall be provided at each end of the insert to shunt the system during electrical testing. The insert shall be tested per ANSI A92.2.

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

**Turret/Rotation:**

The rotation shall be continuous and unrestricted in either direction. The unit shall have a hydraulically-driven worm and spur gear acting on a shear-ball rotation bearing. The gearbox shall have an eccentric ring mounting to allow for precise adjustments for pinion clearance.

The unit shall have a 1-1/2 in. thick turret plate that is machined flat to support the rotation bearing. There shall be a bearing cover provided to prevent foreign material from interfering with lift rotation.

The turret shall have 5/8 in. thick turret wings that are designed for strength and rigidity.

The bolts holding the lift to the rotation bearing and the rotation bearing to the pedestal shall be SAE grade 8. These bolts shall have a Torque Seal Marked to provide a quick means to inspect for loosening.

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

**Pedestal:**

The pedestal assembly shall be round shape with an access opening on both sides. A 35-gallon hydraulic oil reservoir shall be built as an integral part of the pedestal. The reservoir shall include anti-splash baffles. The top plate of the pedestal shall be 1-1/2 in. thick and machined flat to support the rotation bearing. The unit shall have dual sight gages on the pedestal for checking fluid level. A 100 mesh suction strainer, 10 micron return filter and shut off valves shall be located inside the pedestal.

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

Platforms: The platform shall be a 24 in. x 48 in. x 42 in. closed two man fiberglass unit with one step.

The platform shall be end mounted with hydraulic leveling. The leveling system shall include a master/slave cylinder arrangement that can be actuated from the upper or lower controls for cleanout or rescue.

The unit shall have a hydraulic platform rotator that is operated by a control lever and rotates the platform 180° from one side of the outer/inner boom assembly across the end-hung position to the other side of the outer/inner boom assembly.

Two body harness and lanyards shall be provided. The unit shall have the anchors for the lanyards attached to the platform support.

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

Platform Tools: There shall be a hydraulic tool circuit supplied to the upper controls. This system uses open center hydraulic tools. The tool circuit shall provide 10 gpm at 3,000 psi.

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

Hydraulic System: The unit shall have an open-center hydraulic system which operates at 3,000 psi and 10 gpm. The system shall have a 10-micron return-line filter, mounted above the hydraulic oil level and inside the pedestal, which can be easily changed without draining the reservoir. There shall be a filter gauge with a color coded range to monitor the condition of the return line filter for replacement. The 100 mesh suction strainer in the reservoir shall be easily removable for cleaning. There shall be a gate valve located below the reservoir to prevent oil loss when the pump is serviced. The reservoir shall have a magnetic drain plug to attract metal particles from the oil.

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

Sub-frame  
And Stabilization: There shall be a full length sub-frame constructed of 6 in. x 8 in. tube and ¼ in. plate and attached to the chassis frame.

The unit shall have A-frame outriggers equipped with pivot feet, pilot-operated check valves, internal thermal relief valves, and separate controls. At maximum extension, the outriggers shall furnish 148 in. of spread and 7.25 in. of penetration with 21 in. of ground clearance based on 39 in. frame height.

The unit shall have auxiliary H-frame outriggers that are shear plate mounted to the frame and are equipped with pilot operated check valves, internal thermal relief valves and separate controls. The outriggers shall furnish up to 158 in. of spread and a maximum of 9 in. of penetration with 15 in. of ground clearance. The outrigger feet shall pivot up to 10° angle in all directions.

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

Body: Flat-Bed (18' steel)

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

Paint: Manufacturer's standard white

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

**ADDITIONAL REQUIREMENTS**

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

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

Warranty: Clearly stated terms and conditions of all manufacturer warranties shall be included with the Statement of Qualifications (SOQ). Any and 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 any and 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 period not to exceed thirty days. **The bidder shall provide written assurance with the SOQ regarding warranty repairs.**

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

The manufacturer shall provide, with SOQ, a list of warranty service locations within the State of Mississippi for all components of the vehicle (A/C, body, chassis, electrical, etc.) which may need warranty repair beyond the first ninety days.

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

Workmanship: Workmanship throughout the vehicle 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 of the body and equipment which the manufacturer proposes to furnish must provide a vehicle 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:** \_\_\_\_\_

Parts Availability: Dealer name and location within the State of Mississippi (if applicable):

\_\_\_\_\_

Tests and Testing: The complete vehicle 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 (cd, flash drive, etc.) versions. One set of technical manuals shall be provided with each unit upon delivery. Additional manuals may be ordered at a later date.

Technical service bulletins: Successful bidder shall provide TSBs (technical service bulletins) for all equipment 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

**Descriptive literature shall be furnished to substantiate the details specified in SOQ.**

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

Certification: The manufacturer(s) shall furnish certification that this machine 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 vehicle is being purchased through the State's Master Lease Purchase Program, and the following shall be shown as the **1<sup>st</sup> Lienholder on the Title Application**:

U.S. Bank National Association  
Attention: Jacqueline McNeil  
6810 Crumpler Blvd., Suite 200  
Olive Branch, MS 38654

Lienholder Number: 90018867500

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