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Comply Yes/No: _____

<u>Articulated Platform – Truck Mounted – 80 Foot Working Height</u>

Articulated platform, 80-foot working height, truck mounted (hereinafter referred to as "unit"), fully insulated, equipped with flatbed utility body, 600-pound capacity boom-mounted winch-operated jib crane, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Articulated/Telescopic Lift System Proposed:	Make:	Model:
Truck Proposed:	Make:	Model:
Utility Body Proposed:	Make:	Model:
		name or equal within this specification is to be considered a reference of quality, performance, and characteristics desired. It is not intended to
that must be met for a venomeet or exceed this require considered. The vendor m	dor to qualify for ment. A "NO" in such that the such that the supply provided the sup	efollowing statements. Specifications listed are minimum requirements or an award. A "YES" response means the vendor guarantees that they response means the vendor cannot meet the requirement and will not be inted literature that shows compliance with each requirement of them is found not to comply, the unit(s) will be rejected.
Descriptive literature shall	l be furnished	I to substantiate the details specified throughout this bid.
		<u>SPECIFICATIONS</u>
Articulated Platform Lift		
platform floor to be 75-feet feet, overall height from gro	when mounte und in travel p	one (1) platform, working load of 700-pounds, height from ground to do n truck chassis, working radius from center line of rotation to be 46-position to be 13-feet maximum, lower boom travel to be 0 degrees to +88-poe -25 degrees to +75 degrees, rotation to be 360 degrees continuous.
Minimum working lo	oad (pounds):	
Minimum tipping loa	ad (pounds): _	
Height from ground	to platform flo	or (feet):
Working radius fron	n center line of	rotation (feet):
Lower boom arc of	travel (degrees	s above/below horizontal, highest to lowest):
Upper telescopic bo	oom arc of trav	el (degrees above/below horizontal, highest to lowest):
Overall height in tra	vel position (fe	eet):

Hydraulic System: The hydraulic system shall be of open-center design 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

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Comply Yes/No: _____

be easily removable for cleaning. There sha the pump is serviced. The reservoir shall have		
Comply Yes/No:		
Control System: The system shall have a soperates all four (4) functions of the control handle will not allow boom movement until it controls to be centered on wide side of buck	valve. A safety trigger t is depressed. An emer	located on the underside of the single stick
Individual full-pressure controls located at the be equipped with a selector valve to override		oom functions. The lower control station shal
The hydraulic control valves will be full press	ure and full flow.	
The start/stop system shall be designed so the activated, and the truck ignition is in the "on" put the lift when the truck is locked. Start/stop co	oosition. This will make it o	difficult for unauthorized individuals to operate
Comply Yes/No:		
Emergency Lowering: The aerial device s switches located at both the lower and uppe ground should the primary system fail while to	r controls. This system w	
Comply Yes/No:		
Platform : The platform shall be a 24-inch (lunit with one step.	neight) x 48-inch (width)	x 42-inch (depth) closed two-man fiberglass
The platform shall be end mounted with hydra arrangement that can be actuated from the u		
The unit shall have a hydraulic platform rota from one side of the outer/inner boom asserboom assembly.		
Two body harness and lanyards shall be proplatform support.	vided. The unit shall have	e the anchors for the lanyards attached to the
Comply Yes/No:		
Liner: A 24-inch (height) by 48-inch (width) libe designed to be supported by the bottom of fiberglass bucket to prevent sharp objects filmolded integral non-slip step inverted inside (Kilovolt) minimum.	of the bucket. The liner shorn lodging between the	nould include a lip that fits over the top of the bucket and the liner. The liner shall have a
Liner size: inches (he	ght), by	inches (width)
Certified Kilovolt:		

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Platform Tools: Hydraulic tool circuit shall be supplied to the upper controls. This system shall use open center hydraulic tools. The tool circuit shall provide 10 GPM at 3,000 PSI.

hydraulic tools. The tool circuit shall provide 10 GPM at 3,000 PSI.
Comply Yes/No:
Upper Telescopic Boom Assembly : The telescopic 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-inch x 12 inch steel section, a 12-inch x 14-inch fiberglass section that allows the boom tip to maintain a 62-inch insulation gap when the inner boom is fully retracted. The 9-1/4-inch x 11-1/4-inch 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-inch and the insulation gap shall be a minimum of 179-inches when fully extended.
There shall be a lifting eye attachment near the end of the outer boom rated for 1,000 pounds 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 degrees below horizontal to 75 degrees above horizontal.
A boom support cradle and a ratchet-type boom tie down strap to be 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-inch x 12-inch-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-inch and the fiberglass section in the compensation link shall maintain the 24-inch (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 horizonta to 92 degrees 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-inch-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-inch-thick turret wings that are designed for strength and rigidity.

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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-inch-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:
Sub-frame and Stabilization : Outriggers shall be solidly mounted to the full-length sub-frame assembly constructed of 6-inch x 8-inch tube and 1/4-inch plate, and attached to the chassis frame. Outrigger pads must be included.
The unit shall be stabilized by A-frame outriggers equipped with pivot feet, pilot-operated check valves, interna thermal relief valves, and separate controls. At maximum extension, the outriggers shall furnish 148-inches o spread and 7 1/4-inch penetration with 21-inch ground clearance based on 39-inch frame height. In lieu of A-frame outriggers, radial outriggers will be acceptable if they meet the same overall dimensions and safety factors.
Auxiliary H-frame outriggers shall be shear plate mounted to the frame and equipped with pilot operated check valves, internal thermal relief valves and separate controls. The outriggers shall furnish up to 158-inches of spread and a maximum of 9-inch penetration with 15-inch ground clearance. The outrigger feet shall pivot up to 10 degree angle in all directions. In lieu of auxiliary H-frame outriggers, auxiliary A-frame outriggers will be acceptable if they meet the same overall dimensions and safety factors.
Comply Yes/No:
Body:
Bed: Flat-Bed (18-foot steel)
Comply Yes/No:
Toolboxes: Three (3) toolboxes, keyed alike, of same color (either manufacturer's standard color or black), interio LED lighting, mounted to truck bed

One (1) toolbox: 24-inches deep (front to back) x 36-inches tall (top to bottom) x 98-inches wide (left to right) with two (2) locking doors, mounted immediately behind the cab.

Two (2) toolboxes: 18-inches deep (front to back) x 18-inches tall (top to bottom) x 48-inches wide (left to right) under bed toolboxes with locking doors, mounted between the rear axle and back of the truck on each side.

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Generator: 5000-watt capacity, diesel, generator having at minimum four (4) outlets rated for 120 VAC at 15 amps and one (1) outlet rated for 120/240V 30 amps. Generator shall be mounted, in a permanent and theft-proof manner, to flatbed body behind cab passenger-side. Generator shall be designed for fuel supply to draw from vehicle fuel tank. Generator shall be fully plumbed and operational when vehicle is delivered.

Generator proposed: Make: _____ Model: ____

Horsepower:	Rated watts@ 120 VAC:
Comply Yes/No:	
jib crane positioned on the boom. The j the load vertically with a control valve lo station shall inform the operator of the jib	h: The material handling function shall include a 600-pound winch-operated ib crane shall be hydraulically controlled, allowing the operator to position ocated at the upper control station. A load chart near the operator's control or crane and boom carrying capacities. The hydraulic jib crane cylinder shall events cylinder creep and locks the cylinder in the event of hydraulic hose
The self-locking worm gear winch shall	be controlled from both the upper and lower control stations.
70' of double-braided polyester rope wit	h clevis hook shall be provided.
Cab Chassis Truck	
GVWR : 33,000 pounds	
GVWR (pounds):	
Comply Yes/No:	
CA Dimension: 138-inches	
CA (inches):	
Comply Yes/No:	
Engine : 9-liter, 360-horsepower, water-EPA requirements	cooled, diesel, torque of 1,000 pound-feet, meeting all current federal and
Make:	Model:
Displacement (liters):	Power (horsepower):
Torque (pound-feet):	
Comply Yes/No:	
Engine Protection : Truck shall have a coolant temperature.	automatic shutdown system to include oil pressure, oil temperature, and
Comply Yes/No:	
Cooling System: Heavy-duty, high-cap	acity radiator, silicone hoses, designed for vocational-duty application
Comply Yes/No:	

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Comply Yes/No: _____

Transmission: Severe-duty, fully automatic, 6-speed with overdrive designed for on-road/off-road operations, geared for highway speeds up to minimum top speed of 75 MPH with fully loaded truck. Severe-duty oil cooler. Make: _____ Model: _____ Type: _____ Speeds: ____ Comply Yes/No: Brakes: Full air, 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: _____ ABS configuration: _____ Comply Yes/No: _____ **Axle Rating and Suspension:** Front: 13,000-pound, multi-leaf springs with shock absorbers, setback configuration, disc brake compatible hubs Manufacturer: Axle type: _____ Weight rating (pounds): _____ Suspension type: _____ Weight rating (pounds): _____ Rear: 26,000-pound, multi-leaf springs with 4,500-pound auxiliary rubber spring, single-speed, with full locking differential (driver operated), disc brake compatible hubs, minimum gear ratio of 4.80 Manufacturer: Gear ratio: Axle type: _____ Weight rating (pounds): _____ Suspension type: ______ Weight rating (pounds): ______ Comply Yes/No: ____ Electrical: One (1) 12-volt, 200-amp alternator. Two (2) 12-volt maintenance-free batteries, 750 CCA, combined total 1,500 CCA. Batteries to be contained in a lockable, rust-proof metal battery box. Alternator: Make: Model: Rating (amps): Battery: Power (CCA per battery/total CCA):

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Frame: Section	modulus 15", bending r	moment 750,000 inches-pounds	
Section	modulus:	RBM:	
Comply Yes/No	o:		
Fuel System: 1	00-gallon capacity, sing	gle tank, dual stage fuel filters	
Capacity	y (gallons):		
Comply Yes/No):		
DEF Tank : 10-g	gallon tank, frame-moun	nted	
Capacity	y (gallons):		
Comply Yes/No	o:	-	
Steering: Powe	r – integral		
Comply Yes/No	o:		
Driveline : Heav	y-duty u-joint		
Comply Yes/No	o:		
		higher than axle and suspension weight specifications t; all seasons, on-road/off-road, high mileage rear driv	
	Manufacturer:	Size:	
Rear:			
	Manufacturer:	Size:	
Comply Yes/No	o:		
Wheels: Must b 19.5-inch diame		her than axle and suspension weight specifications, d	isc brake compatible
Front:			
	Manufacturer:	Size:	
Rear:			
	Manufacturer:	Size:	
Comply Yes/No	۸۰		

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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 area directly behind the vehicle to allow safe reverse travel of vehicle.	of the
Comply Yes/No:	
Cab and Equipment: All standard equipment including, but not limited to: • Five (5) cab-mounted marker lights,	

- Stainless steel cab-mounted exterior sun visor
- Exterior assist handles both sides (if exhaust is in the way, then an interior assist handle will be acceptable for the side affected)
- Power and heated RH and LH C-frame or pedestal exterior mirrors with convex auxiliary mirrors
- Power windows and door locks
- Deluxe high-back air suspended driver and passenger seats with arm rests
- Sun Visor (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
- Air horn(s)
- 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:
Paint: Truck chassis to be manufacturer's standard white. All other to be manufacturer's standard color.
Comply Yes/No:

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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: _____ Training: Upon delivery manufacturer's representative will conduct 1-day training session on operation and maintenance of the unit. Training shall be scheduled no less than 2 weeks prior to training dates. Training shall be scheduled through the MDOT Information Systems Division Network and Security Manager at the MDOT Jackson, MS location. Comply 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: 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: _____

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.

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

Street Address:

Dealer Name:

City, State, ZIP:

Telephone: ______

Acknowledge Yes/No: _____

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Prior to acceptance by M	MDOT, the manufacturer shall service and adjust the unit for operation.
Acknowledge Yes/No:	
Literature:	
both hard copy and elec	perator's manual, service/maintenance manual, and parts book are to be made available in ctronic (PDF file format on USB flash drive) versions. One set of technical manuals shall be upon delivery. Additional manuals may be ordered later.
delivered to MDOT as t	lletins: Successful bidder shall provide TSBs (technical service bulletins) for each unit they are published, regardless of the date of delivery. TSBs may be furnished in paper or nall be updated regularly.
The following additional	information shall be provided by the vendor at time of delivery (electronically if possible):
	recommended service/preventive maintenance intervals fluids, lubricants, and their SAE equivalents
Two (2) copies of desc	criptive literature shall be furnished to substantiate the details specified in the bid.
Acknowledge Yes/No:	
Department of Labor O	
NOTE: The Mississippi Eleven and the protection public hearing on April 2 Drive, Suite 200, Jackson As a second stage or "s	specialty vehicle" manufacturer, you are not required to hold a Mississippi Manufacturer or you choose, may sell the finished motor vehicle directly to the Mississippi Department of
Vehicle Title or Certific	cate 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:	

MISSISSIPPI DEPARTMENT OF TRANSPORTATION AMD SPECIFICATION NUMBER 807-APTM-80DAA-1032/102 DATE: 11-22 (419-0612) PAGE 11 OF 11

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:	<u></u>
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