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50,000 GVWR Hydraulic Derrick - Tandem Truck Mounted

Hydraulic derrick, tandem truck mounted, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Truck Propose	ed:	Make:		Model:		
Derrick Propos	sed:	Make:		Model:		
Service Body I	Propose	d: Ma	ake:		Model:	
Non-Restrictive Clause:		purpose of	f brand name or equal v f describing the standar o limit or restrict compet	d of quality, pe	ification is to be considered a reference for rformance, and characteristics desired. It is	the s not
Truck Specifica	ations:		SPECI	FICATIONS		
GVWR:	50,000	lbs. minimu	ım			
	GVWR:					
Comply Yes/						
Cab to Tandem	:102"					
	Cab to	Гandem:				
Comply Yes/	No:					
Wheelbase:	154"					
	Wheelba	ase:				
Comply Yes/	No:					
Engine:	13-liter, requirer		oower, water-cooled dies	sel, 1,650 ft-lbs	torque, to meet current federal and EPA em	າissio
	Make: _			Model:		
	HP:			Torque:		
Comply Yes/	No:					
Engine Protection	on:		nave automatic shutdow re, and intake manifold		clude; oil pressure, oil temperature, coolan	t
Comply Yes	/No:					
Transmission:			Automatic, 6-speed min p to 72 MPH with fully lo		nated-Manual, 13–speed minimum, geared	for
Comply Yes/	No:					

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Brakes:	Full air, disc, ABS with 6S/6M configuration for front and rear axle compatibility, sized to meet all applicable state and federal safety standards for size, weight and application of truck			
	Brake System specified:	Rotor Size:	Caliper size:	
	No. of Caliper Pistons:	Capacity of air tank:		
	Air Compressor Size (GPM):	ABS system:		
	ABS Configuration used:	_		
Comply Yes	s/No:			
Axle Rating an Suspension:	nd Front – 16,000 lb. minimum capacity, r	multi-leaf springs w/shock abs	orbers, disc brake compatible hubs	
*	Rear – 34,000 lb. minimum capacity, r (anti-spin device), disc brake compatib		ock and full locking wheel differential	
	Axle rating: Front:	Rear	:	
	Axle description:			
	Front:	Rear	:	
	Gear ratio:			
Comply Yes	s/No:			
Cooling System:	Heavy-duty, high capacity radiator, sil	icone hoses		
Comply Yes	s/No:			
Electrical:	12-volt, 160-amp alternator. Three 12-	-volt maintenance free batterie	es, 1875 CCA	
	Alternator: a. Manufacturer:			
	b. Amp rating:			
	Battery size and capacity:			
Comply Yes	s/No:			
Frame:	All grade 8 bolts and hardware for assisteel section modulus – 15.9", minimum	embly. Huck bolts will not be m 110,000 psi	acceptable. High strength, low alloy	
Comply Yes	s/No:			
Fuel System:	100-gallon (minimum) tank capacity (a	ny configuration) dual stage fu	uel filters	
	Number of tanks:			
	Capacity per tank:			
Comply Yes/I	No:			

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DEF Tank: 13-gallon frame-mounted, minimum

Comply Yes/No: _____

	To gallott trained modified, militain
Comply Yes	s/No:
Steering:	Power - integral
Comply Yes	s/No:
Driveline:	Heavy-duty main u-joint with inter-axle
Comply Yes	s/No:
Tires, Radial:	Front – (2) 12R22.5, Load Range H, 16-ply radial, highway tread, steer tire pattern Rear – (8) 11R22.5 load range H, 16-ply radial, on-off highway tread, hi-miler extra grip, mud and snow Must be rated equal to or higher than axle and suspension weight specifications
Comply Yes	s/No:
Wheels:	Front – (2) 22.5 x 9, 10 hole disc, steel, hub-piloted Rear – (8) 22.5 x 8.25, 10 hole disc, steel, hub-piloted Must be rated equal to or higher than axle and suspension weight specifications, disc brake compatible
Comply Yes/N	lo:
Back-up Alarm:	Smart alarm system which is activated upon movement of the vehicle; audible above normal outdoor and construction sounds
Comply Yes/N	lo:
Cab and Equipment:	Conventional-type, steel or aluminum construction with fiberglass front hood and fender assembly, tilting hood and fender assembly, equipped with door pads and back of cab pads for sound deadening and insulation.
	All standard equipment including, but not limited to: five cab-mounted marker lights, deluxe high-back air suspended driver seat and passenger seat, factory air conditioning and heater with defroster, outside assist handles both sides (if exhaust is in the way then an inside assist handle will be acceptable for the side affected), 12-volt accessory power outlet – dash mounted, all dash switches including spares shall be functional ,direct reading gauges for oil pressure, water temperature and air pressure, tachometer, AM/FM Bluetooth stereo radio with hands-free option, dual air horns, warning lights and buzzers for air pressure, oil pressure and water temperature, RH and LH west coast mirrors, convex auxiliary mirrors (LH & RH), tinted glass all around, four-speed electric windshield wipers and washers with intermittent mode, tilt steering column, axle air bladder dump valve, front tow hooks, heavy-duty front bumper, circuit breaker for clearance and identification lights, and 7-wire electrical cable, high visibility orange safety belts

Digger/Derrick Specifications:

Basic Derrick: Three (3) stage hydraulically operated derrick, center, rear-mounted

	Performances	Ranges Min	imum Capacities:	2nd or 3rd stage
Degre	<u>Boom F</u>	Retracted	Boom Extended	Boom Fully Extended
80°		20,500 lb	14,600 lb	11,800 lb
45°		8,200 lb	4,800 lb	3,500 lb
0°		4,900 lb	2,600 lb	1,800 lb
-20°		2,800 lb	1,200 lb	750 lb
Comply Yes/No:				
Elevation:	From 80° above	e horizontal to 2	0° below horizontal minin	num range
Comply Yes/No: Sheave Height:	46' minimum at	80° with full ext	ension, when mounted o	n 40" chassis
Comply Yes/No:		_		
Load Radius:	37' minimum fro	om centerline of	rotation at 0° with secon	d and third stage extended
Comply Yes/No:		-		
3:1 Structural Safety Factor:	Designed and te the derrick is loa	ested so that the aded to three tir	e yield point of the structunes its rated capacity	ural components is not exceeded when
Comply Yes/No:		-		
Boom Tip Winch:	15,000 lb bare of cooled brake with polyester rope	drum capacity; s th special provi	self—locking, high torque sions on drum for attachi	, worm gear winch, equipped with oil ng wire rope, polypropylene rope, or
Comply Yes/No:		-		
Lift Cylinders:	The main boom capacities show	shall be equipp n above in <u>"Pe</u>	ed with single or dual lift rformances Ranges Mi	cylinders capable of lifting the full rated nimum Capacities" Chart.
Comply Yes/No:		-		
Rotation:	360° continuous drive, equipped extra smooth rot	with disc brake	tation provided by high e , driving a hardened shea	fficiency worm gear or planetary type ar ball bearing rotation gear, resulting in
Comply Yes/No:				
Pivot Point Pins:	All major load be keepers	earing pins are	plated. all pivot points are	e line bored or reamed and pins have
Comply Yes/No:				

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Bearings:	Lift cylinder equipped with self-aligning bearings. The second stage boom shall utilize slide pads.
Full Hydraulic Control System:	The operator's control station is to be fully hydraulic with full pressure/full flow for all boom functions and no electrically operated boom controls. There shall be individual control levers for all boom functions.
	A riding seat type control console is to be provided on the curb side of the turret.
Comply Yes/No:	
Overload Protection:	Protects derrick from being overloaded. Cuts off winch up, digger dig, second and third stage extensions, importantly it leaves operational those functions which can get you out of trouble. Once the operator has eliminated the overloaded condition, the overload protection system automatically allows all functions to be operational.
Comply Yes/No:	
Auger Stow Protection:	Protects against damage to auger and auger mechanism by automatically cutting off auger function when auger is stowed
Rotation Overload Protection:	Protects against damage to structure resulting from excessive side loading through the hydraulic overload protection system built into the rotation system.
Comply Yes/No:	
Digger Transfer Protection:	Protects against damage to transfer mechanism when un-stowing digger and auger
Comply Yes/No:	
Holding Valves:	Provided on main derrick cylinders including counter-balanced holding valves on hydraulic extension cylinder and outrigger cylinders
Comply Yes/No:	
Auger Storage Mechanism:	Self-latching auger storage bracket, hydraulic auger release, digger transfer mechanism including automatic auger pick-up device and auger stow protection
Comply Yes/No:	
Complete Hydraulic System:	The unit is equipped with a tandem vane high efficiency, 3000 psi rated hydraulic pump providing 43.5 gallons per minute (at 2,000 rpm and 2,500 psi). 50 gallon hydraulic oil reservoir which includes a 10 micron replaceable cartridge type return line filter mounted in the reservoir with bypass valve to prevent restricted flow. A 100 mesh filter screen in the filler cap and a 40 mesh filter screen in the tank outlet. Glycerin filled pressure gauge to monitor circuit pressures. Relief valves to protect the derrick and digger winch circuits.
Comply Yes/No:	
Stabilizers:	Unit to have front and rear "A" frame type with a minimum of 153" spread at full extension. The stabilizers are to be constructed as part of the main frame or have a sub-frame that is securely fastened to the main frame. The outrigger controls are to be installed at the rear of the body
Comply Yes/No:	

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Comply Yes/No: _____

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Two Speed Digger:	Equipped with planetary gear drive producing up to 12,000 ft-lb torque:
	The digger is to be equipped with a 2-5/8" hex kelly bar and locking dog assembly with kelly bar adapter, locking dog, 2-5/8" kelly bar and 7' drive wrench
	Digger auger - 24" diameter auger, 104" long with 60" flighting and steel boring head and 2-5/8" hex kelly bar
	Digger auger - 18" diameter auger, 104" long with 60" flighting and steel boring head and 2-5/8" hex kelly bar
	Digger auger - 12" diameter auger, 104" long with 60" flighting and steel boring head and 2-5/8" hex kelly bar
	Digger auger - 9" diameter auger, 104" long with 60" flighting and steel boring head and 2-5/8" hex kelly bar
Comply Yes/No:	
Tilt Pole Plumber for Tra	ansferable Pole Buddy:
	Circular design arms handle poles up to 23" diameter boom pole guide with safety check valve and tilting system shall be attached to flared boom tip and folds back out of the way when not in use. Install double holding valve on pole guide tilt and open/close circuits. The pole plumber is installed on the transferable pole buddy flange assembly and transfers from the second to the third stage booms
Comply Yes/No:	
Tilt Pole Plumber Interlo	ock for Transferable Pole Plumber:
	The tilt pole plumber includes an interlock system which protects both pole plumber and fiberglass third stage boom from accidental damage caused by extending the third stage boom with the pole plumber installed on the second stage boom and in the tilted down position
Comply Yes/No:	
Two-part line attachmer	nt installed on the end of the second stage boom
Comply Yes/No:	
Third Stage Fiberglass I Hydraulically Extended:	
	Structurally capable of lifting to rated hydraulic capacity of derrick in given position while maintaining the derrick's full three to one structural safety factor
	Equipped with flared boom tip
	Certified for rated line voltage up to and including 46 KV AC
	Extension cylinder equipped with holding valves

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Third Stage Boom

Extension Rollers: The boom is to be mounted on tapered slide pads installed at the end of the second section to support the fiberglass boom under load minimizing scratches and abrasions. The sides of the

fiberglass boom are supported and guided by non-metallic rollers to prevent tracking

Comply	Yes	No:	

Boom/Accessories:

Engine start/stop switch at both control stations

Hydraulic oil and lubricants, installed

8-1/2' x 1/2" wire rope sling with eye in each end

4' x 1/2" wire rope sling with eye in each end

60' x 1" braided rope with eye in each end

Nylite spool shield and shackle #4 orange

cab control, heavy duty SAE power take-off two-speed throttle control at the rear of the body

Comply	Yes/No:		
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Service Body Specifications:

Service line body, suitable for installing on any tandem dual rear wheel chassis with 102 " CT measurement.

Body - fabricated from hot dipped zinc galvanized steel with 100% iron zinc alloy coating

16 gauge outside panels

18 gauge shelving

16 gauge panels

12 gauge safety tread steel floor (four-way pattern)

structural channel sub-base

Body Dimensions:

138" overall body length

93" overall body width

46" overall body height

18" compartment depth

57" floor width

Compartment — left side:

First vertical 24" wide — six (6) fixed material hooks Front horizontal 54" wide — one (1) plain adjustable shelf Rear horizontal 54" wide — one (1) plain adjustable shelf

Compartment — right side:

First vertical 24" wide — access steps to cargo area with two grab handles

Front horizontal 54" wide — two (2) adjustable shelve with

removable dividers on 8"centers

Rear horizontal 54" wide - two (2) adjustable shelves with removable dividers on 8" centers

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Standard features:

Basic body fabricated from hot zinc dipped galvanized steel with 100% iron zinc alloy coating, all welded construction

All doors are full double—paneled, self—sealed with built—in drainage for maximum weather tightness

Standard features (continued):

All doors contain flush type single point locks with recessed handles, including keyed locks and two—stage strikers

Heavy—gauge, welded steel base construction with safety tread floor

All edges either rolled or folded for strength and safety

Door header drip rail at top for maximum weather protection through shelf, full length, 16" wide, extending through all compartments, left side

Neoprene fenders

Wheel chock storage compartments built into the fender wheels

Comply Yes/No:	
Body Accessories:	
	Treadplate installed on top of compartments
	36" long x 94" wide x 6" deep combination rear platform extension and tamp
	Storage compartment with drop down doors built in at each side
	132" long hotstick compartment, built in top street side of body, drop down opening door from rear including:
	Two (2) hotstick brackets, installed splash aprons, installed lights and reflectors in accordance with FMVSS #108 lighting package
	Installation of body:
	Paint body one solid color with polyurethane enamel or equal, white
	Two grab handles street side of rear platform extension
	Cable suspended stirrup step on street side at rear
	Rigid type stirrup step installed under the curb side recessed steps at front of body
	Two rubber dock bumpers installed on right and left side of frame
	ICC rear bumper
Comply Yes/No:	

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Accessories:

6" possum belly with drop down door at the rear and a stop at 120"

Heavy duty pintle hook with frame reinforcement and two safety chain rings

Storage bracket for anchor auger on top of street side compartments

Black undercoating applied to underside of body

Tow hooks, installed at front of chassis

Triangle reflector kit

Five pound fire extinguisher with mounting bracket mounted front

street side of the body

DOT inspection

7-prong trailer plug installed at the rear

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.

Acknowledg	A Vas/No	
ACKIIOWIEGO	ie res/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.

Ac	knov	wledge	Yes/No:	
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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.

Acknowled	ge Yes/l	No:	
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MISSISSIPPI DEPT OF TRANSPORTATION AMD SPECIFICATION NUMBER 868-DDTM-50TD/HYD76-1032/141 DATE: 07-18 (472-1105) PAGE 10 of 11 Parts Availability: Dealer name and location within the State of Mississippi (if applicable): Acknowledge Yes/No: _____ 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 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. Descriptive literature shall be furnished to substantiate the details specified in SOQ. Acknowledge Yes/No: ____ NOTE: Any company manufacturing, up-fitting, and/or selling a finished motor vehicle in the State of Mississippi must be in compliance with the rules and regulations of the Mississippi Motor Vehicle Commission prior to the bid opening. Any licensing will be verified prior to

award.

A copy of licenses as required by the Mississippi Motor Vehicle Commission may be supplied with SOQ.

Dealers License Number: _____

Manufacturers License Number (where applicable): ______

Application and contact information may be attained through the internet at http://www.mmvc.ms.gov/

Acknowledge Yes/No: MISSISSIPPI DEPT OF TRANSPORTATION AMD SPECIFICATION NUMBER 868-DDTM-50TD/HYD76-1032/141 DATE: 07-18 (472-1105) PAGE 11 of 11

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:	
Monthowncage	103/140.	

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**st **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: _____