

Pavement Mud Jack

Pavement mud jack, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Proposed Mud Jack: 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 mud jack will be rejected.

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

SPECIFICATIONS

General: The pavement mud jack equipment required under these specifications shall mix and pump a mud slurry mixture up to an approximately 3" slump under a concrete slab to fill voids and lift the slab to its original grade. The hydraulic concrete mud jack equipment shall be capable of pumping up to 189 cubic feet per hour. The pumping action shall be electric over hydraulic controlled and have the ability to control the pumping strokes from 0–13 per minute.

Comply Yes/No: _____

Trailer Mounted: Mud jack to be mounted on a single axle, 6,000-pound capacity, two-wheel trailer with two (2) 10-ply radial tires suitable for towing (fully loaded) at highway speeds. Trailer to be equipped with wheel fenders, safety chains, brake lights, stop and directional lights with male and female plugs for hookup to truck electrical system, and a 2-inch towing tongue ball hitch with hydraulic break-away surge brake.

Capacity (pounds): _____ Towing ball hitch (inches): _____

Comply Yes/No: _____

Engine: Air cooled diesel engine with electric start, 46 horsepower at 3000 rpm

Horsepower: _____

Comply Yes/No: _____

Hydraulic Pump: Dual 3-inch by 16-inch hydraulic cylinders, 3-inch full flow swing tube style with ability to handle a maximum aggregate size of .75 inches minus. Material output pressure 1300 psi.

Comply Yes/No: _____

Material Hopper: 11-cubic foot capacity, maximum; hinged grate and hinged clean-out door

Maximum hopper capacity (cubic feet): _____

Comply Yes/No: _____

Outriggers: Rear hydraulic outrigger assembly, mounted with hydraulic lever controls

Comply Yes/No: _____

Relief Valve: Adjustable relief valve in hydraulic system, preset to bypass at 2,500 psi

Comply Yes/No: _____

Hydraulic Oil Filter: Return line oil filter with replaceable element

Comply Yes/No: _____

Material Mixer: 10-cubic foot maximum capacity material mixer with hydraulic powered motor that includes forward and reverse capabilities. Mixer must be able to raise and lower, and empty into material hopper via hydraulic lever controls. Mixer must also have replaceable mixing blades and hinged clean-out door.

Maximum material mixer capacity (cubic feet): _____

Comply Yes/No: _____

Water System: Self-priming water pump mounted; hydraulic powered to transfer water to mixer from external source with 25 feet (length) by 1.25 inches (diameter) suction hose/strainer with adjustable flow valve; maximum flow 68 gallons per minute (gpm). Mounted water flow meter with pumping that feeds water into the mixer from the hydraulic water pump or external source.

Maximum flow (gpm): _____

Comply Yes/No: _____

Operating Controls: Control panel shall be fitted with a pump on/off switch, forward and reverse switch, emergency stop switch, and remote-control circuit

Comply Yes/No: _____

Machine Dimensions and Capacities:

- Height: 90 inches

Height (inches): _____

- Width: 79 inches

Width (inches): _____

- Length: 141 inches

Length (inches): _____

- Weight: 3,800 pounds (approximate)

Weight (pounds): _____

- Gas tank: 11 gallons

Gas tank capacity (gallons): _____

- Hydraulic oil reservoir: 32 gallons

Reservoir capacity (gallons): _____

Comply Yes/No: _____

Accessories:

- Additional material hose: 25-foot by x 2-inch, heavy-duty raised ends with heavy-duty reducer 3-inch by 2-inch by 28-inch accompanied by heavy-duty connecting clamps
- Remote Control: 25-foot wired, hand-held

Comply Yes/No: _____

ADDITIONAL REQUIREMENTS

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

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 mud jack (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: _____

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 mud jack 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 mud jack 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 mud jack upon delivery. Additional manuals may be ordered later.

Technical service bulletins: Successful bidder shall provide TSBs (technical service bulletins) for all mud jack(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 mud jack 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: _____

Certificate of Origin (if applicable):

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

Acknowledge Yes/No: _____