

Aggregate Spray Pothole Patcher

Aggregate spray pothole patcher (Patcher), trailer mounted, new and of current model, equipped as advertised by the manufacturer, to meet or exceed the following **MINIMUM** specifications:

Proposed Pothole Patcher: 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 Patcher(s) will be rejected.

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

SPECIFICATIONS

General: To be equipped to hitch to a seven (7) cubic yard 33,000 GVWR dump truck. Patcher shall be capable of delivering aggregate size 1/2" down in a continuous flow by a pressurized air stream system. Shall be equipped with a lightweight nozzle. Operator controls for asphalt nozzle and aggregate control shall be conveniently located and easy to operate.

Comply Yes/No: _____

Trailer: Heavy-duty steel frame, 12,000 lb. capacity, dual axle, 4 tires and wheels, electric or hydraulic surge brakes, actuated by standard 2-5/16" ball hitch. Brake and taillights, safety flashing light and directional signals. Minimum dimensions 96" wide x 186" long x 75" high.

Wide (inches): _____ x Long (inches): _____ x Height (inches): _____

Comply Yes/No: _____

Blow-Vac Air Conveyor: Hopper box for holding aggregate before entering air stream. Slide gate operated by 12-volt air solenoid and one dual acting air ram to allow aggregate into air stream by remote switch at control handle. Hopper box shall have safety screen bolted in place, shall handle aggregate from .25" to .50" grade allowing aggregate up to 2.5" size to pass through without clogging.

Comply Yes/No: _____

Tailgate Feeder: Box designed to fit rear tailgate of dump truck. Shall have large diameter hose for gravity feeding of aggregate into hopper box. No augers or pumps.

Comply Yes/No: _____

Engine: Diesel, water cooled, 74 hp

Horsepower: _____

Comply Yes/No: _____

Air Blower: Centrifugal blower, 450 CFM, driven off engine PTO or direct drive

Comply Yes/No: _____

Air Filters:

Engine: paper element

Blower: re-useable element

Compressor: paper element or may use engine filter

Comply Yes/No: _____

Compressor: Heavy-duty continuous use dual stage with governor. Direct, gear or v-belt driven from engine.

Make: _____ **Model:** _____

CFM: _____

Comply Yes/No: _____

Tanks: 250-gallon, 200 PSI rated working pressure, 2" fiberglass insulated with fiberglass or metal cover. Safety pressure relief valve set at 100 PSI with two 1,500-watt, 120-volt heaters thermostatically controlled, with 18-gallon pressurized diesel tank for emulsion line clean-up, rated 200 PSI working pressure with safety relief valve at 110 PSI, 13-gallon fuel tank.

Comply Yes/No: _____

Hoses:

Aggregate hose: 3.5" ID steel pipe, 10-feet long, connected to 3.5" ID non-kinking, wire reinforced, rubber neoprene-lined hose 16' to 18' long

Emulsion line: 3/8" ID, 15' long, 250 PSI rated hose, diesel clean-up line for cleaning emulsion line out

Comply Yes/No: _____

Spray Nozzle: Light weight for complete coating of aggregate, designed to prevent emulsion build up and clogging in nozzle.

Comply Yes/No: _____

Hot Oil Heating System: System shall have a circulating pump, which will circulate fluid to heat emulsion in tank and hose so the average discharge temperature at the nozzle will be 140 degrees Fahrenheit.

Comply Yes/No: _____

Swing Hose Carrier: To hold complete aggregate hose off ground to provide easier control for operator

Comply Yes/No: _____

Controls: All functions (emulsion, engine rpm, aggregate, and horn) shall be controlled from operator's station at end of hose

Comply Yes/No: _____

Arrow board: 30" by 60" LED arrow board with strobes

Comply Yes/No: _____

Paint: Manufacturer's standard color

Comply Yes/No: _____

ADDITIONAL REQUIREMENTS

Service: The Patcher shall be delivered fully assembled and ready to operate. Factory-trained dealer representative is to inspect the Trailer 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 Patcher (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 Patcher 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 Patcher 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 Patcher upon delivery. Additional manuals may be ordered later.

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

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: _____