

CITY OF MASCOUTAH
3 WEST MAIN
MASCOUTAH, ILLINOIS 62258

ROAD PATCHING MACHINE
BID SPECIFICATIONS

BIDS DUE: AUGUST 6, 2018, 10:00AM

The City of Mascoutah is seeking bids for the provision of a Spray Injection Road Patching Machine and related components. Bid specification packets may be obtained from the City Manager's office at City Hall or downloaded at www.mascoutah.org. Sealed bids will be accepted at the office of City Clerk, City of Mascoutah, 3 West Main Street, Mascoutah, IL 62258 until 10:00 a.m., Aug 6, 2018.

SPRAY INJECTION ROAD PATCHING MACHINE BID SPECIFICATIONS

Intent

It is the intent of these specifications to describe a spray injection road patching machine for use of permanently repairing potholes, alligator cracks, shoulder failures and any other common road issues. We are looking for safety and comfort for the operator and for quick, local service along with local availability of repair parts. All tires shall be the same size.

The unit shall be new of current manufacture.

All parts not specifically mentioned which are necessary to provide a complete spray patching process shall be included in the bid and shall conform in strength, quality of materials, and workmanship to what is normally provided to the trade in general.

No deviations to these specifications will be allowed.

The City reserves the right to reject any or all bids and award the bid to the responsible bidder.

Bidders must indicate compliance for each item throughout the bid by writing "YES" or "NO". Failure to do so may be cause to reject the bid. All "NO" answers must be fully explained on a separate sheet of paper and be attached to and submitted with bid. Failure to explain "NO" answers may be cause to reject bid.

SPECIFICATIONS FOR TRAILER MOUNTED SPRAY
INJECTION ROAD REPAIR MACHINE

Aggregated spray pothole patcher, trailer mounted, new and of current model, equipped as advertised by manufacturer, to meet or exceed following minimum specification.

GENERAL: To be equipped to hitch to a dump truck. Patcher shall be capable of delivering aggregated size ½” down in a continuous flow by a pressurized air stream system. Unit must produce 135lbs of mix per minute in continuous operation. Unit shall be equipped with a light weight vent flow nozzle. Operator controls for asphalt nozzle and aggregate control shall be conveniently located and easy to operate.

COMPLY – YES / NO

TRAILER: ¼” thick rectangle tube heavy duty steel frame, 2-6000lb capacity dual axles, 4-225/75R15 load range D tires, electric brakes, 3” pintle eye on hitch. Brake and tail lights, safety flashing light and directional signals. Directional arrow board mounted on rear of trailer for safety.

COMPLY – YES / NO

BLOWER-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 welded in place, shall handle aggregate from ¼” – ½” grade allowing aggregate up to 2 ½” size to pass through without clogging the aggregate system.

COMPLY – YES / NO

TAILGATE FEEDER: Box designed to fit rear tailgate of dump truck. Unit shall have 5” diameter flex hose for gravity feeding of aggregate into hopper.

COMPLY – YES / NO

ENGINE: Diesel, water cooled 74 BHP (Minimum) interim tier 4 EPA compliant.

COMPLY – YES / NO

BLOWER: Produce 450 C.F.M. with 7 PSI at 1,500 R.P.M.'s using approximately 42 BHP driven directly off engine fly wheel eliminating belt drive, maximum blower temperature is 275 F. normal operations is under 230 F.

COMPLY – YES / NO

AIR FILTER: Engine: paper element, Blower: paper element with foam pre-cleaner, Compressor: paper element or may use engine filter.

COMPLY – YES / NO

COMPRESSOR: Heavy duty continuous use dual stage with governor. Bolt directly to engine auxiliary drive eliminating belt.

COMPLY – YES / NO

TANKS: Emulsion Tank: 250 gallon, 200 PSI working pressure at 500 F and must have 12" t-bolt closure. Insulation: R-15 rated covered by a weatherproof fiber reinforcement plastic cover that is fire retardant. Has two 1,500 watt, 120 volt heater blankets thermostatically controlled heating system must be capable of heating an empty tank without damage to the heating system. Tank has pressure relief valve set between 100 PSI and 110 PSI. The emulsion tank must have a 3 inch drain valve at the bottom to aid in draining the tank for clean out. 15 gallon pressurized diesel tank used for clean out at the end of the work day, 200 PSI working at 450 F. Safety relief valve set between 100 PSI and 110 PSI. Engine fuel tank: 18 gallons with external fuel gauge. There shall be a 3-way insulated and heated valve on the top of the emulsion tank to control emulsion flow while patching and also to cleanout solution. Removable screen filtration tank basket.

COMPLY – YES / NO

HOSES: Aggregate hose: 3 ½” I D schedule 40 pipe 10’ long connected to 3½” I D non-kinking, plastic wire reinforced rubber neoprene lined hose 16’4” long for a total length of 26’4”. Emulsion line: 3/8” I D hose, 250 PSI rated, 20’ long. Diesel clean-up line for cleaning emulsion line out 15’ long.

COMPLY – YES / NO

VENT FLO NOZZLE: 3 1/2” lightweight, perforated tube 13” long. Has a ½” by 1/16” spray slot for 100% coating of aggregate. Has perforated holes to relieve air when aggregate exits nozzle to repaired area. This prevents repair material from being blown out of repair area. Nozzle will not use spray rings to coat aggregate. No nozzle with the spray slot locate outside the nozzle body and held on with a hose clamp is acceptable. Nozzle will have a 12 volt nozzle heater included for cold weather operation.

COMPLY – YES / NO

HOT OIL HEAT EXCHANGER: 12 volt circulator pump, circulates heated oil through a 2” diameter 4’ long pipe inside emulsion tank then through a 3/8” diameter hose to the emulsion nozzle and back to heat exchanger. This keeps the emulsion tank, emulsion line and nozzle at an average temperature of 140 F for cold weather use down to 5 F. Machines circulating engine coolant from engine will not be accepted.

COMPLY – YES / NO

SWING HOSE CARRIER: To hold complete aggregate hose off ground to provide easier control for operator. No fatigue design. Tri-Flex design. Lock to side of machine during transport for safety.

COMPLY – YES / NO

CONTROLS: All functions: emulsion, engine RPM, Aggregate, and horn will be controlled from operator’s station at end of hose.

COMPLY – YES / NO

PAINT: Manufacturer's standard color.

WARRANTY: Manufacturer's standard warranty

Warranty Length _____

SERVICE: Equipment to be delivered fully assembled ready to operate. Factory or dealer representative is to check equipment on delivery and provide training for the operators.

PARTS AVAILABILITY: Dealer name and location where parts and service are available.

LITERATURE: One set of operator's manual, repair manual and parts book to be furnished with each unit.

Descriptive literature is to be furnished with the bid to substantiate the details specified in bid.

TRADE-IN

The City desires to trade-in current Dura Patcher with purchase of new spray injection road patching machine.

- 3271 hours
- Purchased new in October, 2002
- Serial Number 12870
- Model Number 125DJT

Please include trade-in value on bid sheet.

Bidders may contact Marvin McLemore at (618) 779-5458 for more information regarding the 2002 Dura Patcher and to view the machine.

BIDDER INFORMATION
SPRAY INJECTION ROAD PATCHING MACHINE
CITY OF MASCOUTAH
3 WEST MAIN STREET
MASCOUTAH, IL 62258

BID DATE: 10:00 AM, August 6, 2018

BIDDERS NAME: _____

ADDRESS: _____

CITY, STATE: _____

PHONE: _____

BASE BID AMOUNT: _____

TRADE-IN VALUE: _____
(2002 Duro Patcher Serial Number 12870 Model Number 125DJT)

TOTAL BID AMOUNT: _____

WARRANTY: _____

ESTIMATED DELIVERY DATE: _____

By:

Title: