

**NOTICE TO BIDDERS  
ROAD MAINTENANCE EQUIPMENT**

**NOTICE TO BIDDERS  
2010  
EQUIPMENT**

**OGEMAW COUNTY ROAD COMMISSION  
WEST BRANCH, MICHIGAN  
(989) 345-0234**

Sealed proposals will be received by the Board of County Road Commissioners of the County of Ogemaw at their offices at 1250 S. M-33, P.O. Box 157, West Branch, Michigan 48661 until 9:00 a.m. local time, June 9, 2010, at which time and place said bids will be publicly opened and read aloud for furnishing the following:

One (1) Demo Trailer Mounted Spray Injection Road Repair Machine

Further specifications may be obtained from the Ogemaw County Road Commission website ([www.ogemawcrc.org](http://www.ogemawcrc.org)).

All bids must bear bidder's name and name of bid item plainly marked on the outside of the sealed envelope.

The Ogemaw County Board of Road Commissioners reserves the right to accept or reject any bid or portion thereof as they deem to be in the best interest of the Ogemaw County Road Commission.

Board of County Road Commissioners  
County of Ogemaw  
Van Sheltroun, Chairman

**Ogemaw County Road Commission**  
**Bid Specifications For**  
**(1) Demo Trailer Mounted Spray Injection Road Repair Machine**

**General:**

The unit shall be trailer mounted and designed to repair road potholes, cracks, or board distress areas in paved surfaces. The unit shall be capable of blowing water, dust, or debris from the pothole or surface to be repaired. The unit then shall apply a spray of hot emulsion coated aggregate over the repaired area. Unit must be capable of functioning in temperatures down to 15 degrees Fahrenheit. Unit must produce 130 lbs of mix per minute of continuous operation to be considered. Unit must also not get oil or rock on the operator during operation.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Aggregate System:**

The pothole patching machine shall receive aggregate from a dump truck with tail gate modified by the pot hole patching machine supplier to gravity feed the hopper box of the unit. No augers, conveyors, or any other mechanical devices shall be allowed. The hopper box shall be designed to hold the aggregate before it enters the air stream created by the blower. The hopper box shall have a safety screen welded in place and will allow aggregate up to 2-1/2" in size to pass into the system without clogging. The hopper box shall be equipped with a slide opened and closed by a 3-1/4" diameter, 4" stroke air ram. The electric/air solenoid valve that controls the air gate must have a manual push button system incorporated within the valve to allow the air gate to be operated in both directions from the electric/air solenoid valve in the event of an air gate switch failure.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Aggregate Conduit System:**

Shall consist of an abrasion resistant 3-1/2" ID schedule 40 pipe 10' long connected to a flexible 3-1/2" ID non-kinking, plastic wire reinforced rubber neoprene-lined hose, 16'-4" long. The flexible hose shall be fitted with an automatic pressure compensating nozzle. This nozzle shall be a perforated tube, 3-1/2" in diameter and 13" long. It shall be attached to a separate manifold block that contains a 1" by 1/6" spray slot for coating aggregate. This manifold block is permanent. The manifold block must also accept a crack seal attachment. When the perforated tube needs replacing due to wear, the heated manifold does not have to be replaced. The unit must not produce an overspray of material, and must keep the operator clean and free of oil and rock. **Unit must not clog up in when transported in cold weather.**

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Zero Intrusion Hose Carrier:**

The flexible hose and aggregate flow nozzle shall be supported by a reflective hose carrier. This device shall allow the operator to repair an area within an 18' radius from the pivot point where the boom is mounted to the trailer frame. The boom shall be a three section device that allows the operator to move throughout its full radius using only very light force from one hand, and shall be adjustable for height with little effort. A yellow strobe light shall be mounted at the top of a vertical pole located at the rear of the machine which engages automatically when the engine is running. A flip over reversible handle bar, with multi-point support position, must allow the operator to operate the boom controls from either side with no compromise. The handle bar control shall include a ball valve to regulate emulsion flow and a high grade sealed electric toggle switch to open and close the air ram. The engine throttle will be mounted at the boom control station to allow the operator to vary the engine speed from the work position. A signal horn control button for the air horn will also be located on the boom control station. A multi-function lighted arrow board must be mounted on an elevated support system.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Blower System:**

The blower shall be direct coupled to the engine flywheel. It shall produce 450 CFM at 7 psi at 1500 engine RPM, using approximately 42 BHP. The blower must be capable of producing 14 PSI to insure ample power for any application. The blower must have a built in sight gauge. The unit shall be protected from overheating by a pop-off valve set at 10 PSI. The blower shall intake air from an easily accessible caged paper element filter of not less than 300 square inches of filtration surface area covered by a foam pre-cleaner element. The blower unit must have bearings at both ends of the input and output shafts, no bushings. Unit must have helical gearing for long life. Blower shaft and lobes must be of a single machined assembly.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Air Compressor:**

The unit shall be directly driven by the engine. It shall be of heavy duty construction and shall deliver a continuous pressure with a pop-off regulator set at between 70 PSI and 95 PSI. It shall produce 15 CFM

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Emulsion System:**

The emulsion tank shall be an ASME certified pressure vessel with a 250 gallon capacity. It shall have a 200 PSI working pressure at 500 degrees Fahrenheit. The entire tank shall be insulated by R-15 weatherproof, fire retardant high density fiberglass. This insulation must cover the entire tank, including the heat blanket area as standard equipment. It shall be equipped with (2) 1500 watt, 120 volt heater blankets thermostatically controlled. The tank heating system must be capable of operating continuously regardless of whether the emulsion is empty or full, with no damage to the heating elements or other components. This allows an empty tank to be preheated. The tank shall have a pressure relief valve set between 100 PSI and 110 PSI. The unit must feed its emulsion via a pressurized emulsion tank to allow the system to be unaffected by cold weather. This system will be controlled by a rotary style heavy duty 2-way valve that has an emulsion and cleanout position.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Emulsion Cleanout Tank:**

Shall be a 15 gallon pressurized vessel with a 200 PSI working pressure at 450 degrees Fahrenheit. This tank shall be equipped with a pressure relief set at 100 PSI to 110 PSI. In the open position, diesel fuel from the cleanout tank will flow through the emulsion line allowing the system to be shut down without clogging. No disassembly and soaking of any part of the emulsion system will be necessary. The entire nozzle clean out procedure may not get emulsion or diesel on the operator.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Hot Fluid Mobile Heating System:**

A 12 volt circulator pump shall circulate heated fluid through a 2” diameter 4’ long pipe inside the emulsion tank, located at the **bottom** of the tank so as to heat the entire load of emulsion, and then through a 3/8” diameter hose to heated manifold block, then back through the heat exchanger system. This will keep the tank, emulsion line, and heated manifold block at 150 degrees Fahrenheit for cold weather operation down to 15 degrees Fahrenheit. Every part of the emulsion valves, hoses, heated manifold block, and complete delivery system will be heated by this hot fluid mobile heating system.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Engine:**

The pothole patching machine shall be powered by a John Deere water cooled diesel engine with at least 80 gross BHP. The engine must have a 2 year factory warranty. Engine must be enclosed by an engine compartment that is manufactured by the engine manufacture, with access door, lined with sound suppression material.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**Trailer:**

The trailer shall be constructed on a 1/4" steel rectangle tube frame equipped with a dual axle with 12,000 lb. capacity. The 4 tires shall be a Load Range D on eight bolt wheels. Axles must also be fitted with a grease fitting at each end to facilitate greasing the wheel bearings. The trailer shall have electric brakes on all four wheels, with a re-settable break-away unit, brake and tail lights with directional signals. The entire machine must come standard with 2 coats of primer and two coats of high visibility orange paint. The trailer must be certified and meet all Federal Motor Vehicle Safety Standards and is assigned a VIN number.

\_\_\_\_\_ YES, MEETS ALL SPECIFICATIONS

\_\_\_\_\_ NO, DESCRIBE \_\_\_\_\_

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**BID FORM**  
**OGEMAW COUNTY ROAD COMMISSION**  
**DEMO TRAILER MOUNTED SPRAY INJECTION ROAD REPAIR MACHINE**

Furnish one demo trailer mounted spray injection road repair machine in accordance with the Advertisement, Information for Bidders, Specifications, and Bid Form.

MAKE, MODEL, YEAR \_\_\_\_\_

HOURS ON MACHINE \_\_\_\_\_

TOTAL PRICE \_\_\_\_\_

DELIVERY TIME \_\_\_\_\_

The Board of County Road Commissioners reserves the right to reject all bids, waive defects and accept the bid which, in their opinion, is in the best interest of the Road Commission.

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COMPANY

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
ADDRESS

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(printed or typed name of signer)

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TITLE

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CITY, STATE, ZIP

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