



# Invitation To Bid (ITB)

JOHNSON COUNTY PURCHASING AGENT  
211 N. CHURCH STREET  
MOUNTAIN CITY, TN 37683  
Phone: (423) 727-7861

Requisition # 34848  
Bid Name Road Patching Machine

Sealed Bids will be received by the Johnson County Purchasing Agent until the date shown below for articles specified below, and under the following conditions, unless otherwise specified by the Johnson County Purchasing Agent:

**Invitation to Bid:** QTY One (1) NEW DuraPatcher P2 (or equal to specs) Trailer Mounted Spray Injection Road Maintenance Machine To Specs

(Description on Page 3)

**For:** Johnson County Government – Highway Department

**Sealed Bids will be accepted until:** October 09, 2019; 2:00 PM (Using Purchasing Agent's Clock)  
A public bid opening meeting will also be held at 2:00 PM on October 09, 2019 in the Purchasing Agents Office at the address below.

If applicable to this ITB, Prices quoted must include all transportation charges, packing, and drayage. Bids must be free from alteration, or erasures, and all signatures must be hand signed in ink by individual or firm making the bid. Carefully review all sections before submission. Incomplete documents may be rejected. You may include other documentation for review inside sealed bid envelope. The Purchasing Agent/Committee and/or the Johnson County Commission, reserve the right to waive technicalities, to reject any or all bids/proposals, to request additional information from all bidders, to use any ideas presented in bids, and to negotiate with one or more of the finalists regarding terms of the engagement. Johnson County, TN intends to select the company that, in its opinion, best meets the County's needs. All documents become the property of Johnson County, TN when submitted, and will not be returned. Johnson County is not responsible for any cost related to bid submissions. For proprietary information that you may send with your bid. Please include a list of information that shall be redacted after an award is made under this bid. A copy of the awarded bid shall become part of any contract or agreement entered into by Johnson County, TN & the vendor.

**ITB Return Address for the outside of the envelope:** Johnson County Purchasing Agent  
Dustin Shearin  
211 N. Church Street  
Mountain City, TN 37683

**\*Note:** Any potential bid packages that are not plainly marked are considered VOID if mistakenly opened prior to the submission deadline.

All bids will be considered in accordance with Title VI and without regard to age, sex, color, race, creed, national origin, religious persuasion, marital status, political belief, or disability that does not prohibit the performance of duty.

**Under this ITB, your company may not offer all items or services requested. Please include a list of these omissions and any alternatives available.**



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## Basis of Award:

Bids will be evaluated based upon (but not limited to) the following criteria:

1. Delivery Timeline.
2. Pricing.
3. Equipment Meets Spec Requirements.

Johnson County, TN reserves the right to conduct independent reviews and interview vendors submitting bids prior to making any selection. Johnson County, TN will make a final award based upon the best response to this request, and has the final say as to that award determination. Johnson County, TN will not be liable for any costs associated with your firm preparing its response to the Invitation To Bid.

Awarding will be made to the proposer who meets the requirements of the solicitation and has submitted the best responsive Bid. Awarding to the successful vendor is contingent upon approval by all necessary involved parties. \*\*\*Bid awarding results will be made available upon request, and in accordance to applicable state law. \*\*\*

Bids will not be considered unless accompanied by this complete signed original document.

Please feel free to call Johnson County Purchasing Agent, Dustin Shearin with any questions you may have. (423) 727-7861



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## DESCRIPTION OF GOODS/SERVICES WANTED

### **QTY One (1) NEW DuraPatcher P2 (or equal to specs) Trailer Mounted Spray Injection Road Maintenance Machine To Specs.**

#### **Specifications:**

Listed below are details for the respective bid items.

**SCOPE:** Furnish One (1) NEW DuraPatcher P2 (or equal to specs) Trailer Mounted Spray Injection Road Maintenance Machine as listed in the specifications below and on the sheets attached to be delivered to the Johnson County Highway Department. Shall be furnished with all manufacturers' standard equipment as attached and in compliance with the following specification requirements. Part or Order Numbers may be different among potential dealers, but result in the same specifications. Please provide a detailed machine build spec sheet/pricing breakdown for the products that you are submitting for bid.

#### **Requirements at Minimum:**

250 Gallon Emulsion Capacity

74HP IT4 Diesel Engine

Electric Overnight Heating Blanket @ 2 x 1500 W heat rating.

R15 Tank Insulation

Minimum 450 CFM @ 1500 RPM, 7 PSI Blower

Approximate GVWR = 10,400 lbs.

Electric Brakes

18 Gallon Fuel Capacity

5 inch Temperature Gauge

Minimum 1 Year Warranty

Please Complete Detailed Checklist

Include list of all pricing discounts & related charges to complete an order.



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## Alternates

1. Any alternates to specified equipment, materials, components, or workmanship must be separately listed and described in detail. Please provide detailed specs of the alternate product.
2. Alternates will be considered in awarding the contract only if they provide, as a minimum requirement, all features contained in the specifications.
3. Johnson County, TN reserves the sole right to determine through its agents the equality of alternate products or components.

## QUESTIONS

Potential bidders that have any questions relating to this documents specifications, language, verbiage, procedures, or general questions about this bid, shall send in writing by email to [purchasing@johnsoncountyttn.gov](mailto:purchasing@johnsoncountyttn.gov) those detailed questions to be answered. Questions shall be sent and received by the Purchasing Agent no later than October 04, 2019 at 2:00 PM. Questions will be answered and sent to all interested parties for review, and not limited to the original requester. Johnson County is not responsible for unreceived emails. Questions that result in changes to these bid documents or any specs must be completed no later than 72 business hours prior to final bid cutoff time of October 09, 2019 at 2:00PM.

## BID PROTEST

Any protest concerning the award of this bid shall be addressed to the Purchasing Agent. Protest shall be made in writing to the Purchasing Agent and shall be filed within seven (7) days after the intended award is announced. A protest is considered filed when received by the Purchasing Agent. The written protest shall include the name and address of the protestor, identification of the procurement, a statement of the specific reasons for the protest and supporting exhibits. The submitted information will be reviewed with the appropriate Department Head and County Attorney to render a final decision and a formal response provided within seven days. This decision relative to the protest shall be considered final.

## DISPUTES

Should disputes, alternatives or other disagreements related to the performance of the work herein described arise between the county and the provider, the parties hereto shall negotiate in good faith in an attempt to resolve same. Such negotiations shall take precedence to any remedy at law.

## COMPETITION INTENDED

It is the intent of Johnson County, TN that this ITB permit competition. It shall be the bidder's responsibility to advise the Purchasing Agent in writing if any language, requirement, specification, etc., or any combination thereof, inadvertently restricts or limits the requirements stated in the ITB to a single source. Such notification shall be received by the Purchasing Agent no later than five (5) business days prior to the date set for deadline of the acceptance of all bids.



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## **REJECTION OF BIDS**

The right is reserved by the county at its discretion to reject any or all bids or parts thereof, at any time. The county reserves the right to waive defects or informalities, to negotiate with bidders and to accept the bid deemed in the best interest of the county.

## **COMPLIANCE WITH LAWS**

The service provider shall at all times observe and comply with all Federal, State and local laws, ordinances and regulations which may in any manner affect the performance of this agreement

## **FEEDBACK**

The Johnson County Purchasing Agent reviews any and all feedback or suggestions anyone reviewing these solicitation documents may be willing to provide. Critical feedback or suggestions is an integral part of creating understandable bid documents. Please feel free to include in your bid package, or send by mail, a separate page stating these types of items that may help with future bids. We thank you for your time in doing so.

## **BID: QTY One (1) NEW DuraPatcher P2 (or equal to specs) Trailer Mounted Spray Injection Road Maintenance Machine To Specs.**

**Price Per Machine (Includes all Purchase Costs for Delivery & Ownership):**

\$ \_\_\_\_\_

**(Please provide a detailed machine build spec sheet/pricing breakdown for the products that you are submitting for bid.)**

**Date Bid is valid until \_\_\_\_\_**

**Please list the delivery time from date of order:**

\_\_\_\_\_

\_\_\_\_\_  
**Representatives Signature**

\_\_\_\_\_  
**Date**



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## Vendor Contact Information

Company Name: \_\_\_\_\_

Company Mailing Address: \_\_\_\_\_

\_\_\_\_\_

### Primary Contact Information:

### Secondary Contact (If Applicable):

Name \_\_\_\_\_

Name \_\_\_\_\_

Phone # \_\_\_\_\_

Phone # \_\_\_\_\_

CONFLICT OF INTEREST (ACCORDING TO: T.C.A. 5-14-114) - No member of County of Johnson Legislative body, and no other officer, employee, or agent of the County of Johnson who exercises any functions or responsibilities in connection with the carrying out of the Project to which this Contract pertains, shall have any personal interest in, and/or receive any monies or anything of value directly or indirectly from this Contract.

IRAN DIVESTMENT ACT – By submission of this proposal, each proposal and each person signing on behalf of any vendor certifies, and in the case of a joint proposal each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each vendor is not on the list created pursuant to T.C.A. 12-12-106.

NON-COLLUSION AFFIDAVIT – The agent of the vendor hereby certifies to the best of his/her knowledge and belief that this proposal to Johnson County, TN has not been prepared in collusion with any other seller of similar products. The agent also certifies that the prices, terms and conditions of said proposal have not be communicated by the undersigned, nor by any employee or agent of the vendor, to any other seller of similar products and will not be communicated to any such seller prior to the official opening of said proposal.

The undersigned firm or individual(s), understands the above specifications, conditions, and terms as described. The undersigned proposes to follow all conditions set forth in this document, to furnish and deliver to the place designated, the named supplies/services at the prices quoted within the bid on Page 5, same to be charged to Johnson County. We guarantee all the above named goods/services to be in accordance with specifications or equal.

\_\_\_\_\_  
(Printed Name)

\_\_\_\_\_ Date: \_\_\_\_\_  
(Authorized Signature)

(AFFIX NOTARY SEAL)

My Commission Expires \_\_\_\_\_

Signature \_\_\_\_\_

## Basic Specifications for a Spray Injection Patching Trailer

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**1.0 Purpose:**

Unit shall be trailer mounted and use the Spray Injection method to repair cracks, potholes, broad distressed areas and shoulders at a minimum. The unit shall be capable of blowing water, dust or debris from the pothole or surface to be repaired. A tack coat of hot emulsion shall be applied by the unit on the cleaned area. Emulsion-coated aggregate must be injected into the repair area. The machine shall be capable of operating in temperatures down to 0 degrees Fahrenheit. The delivery of aggregate and emulsion to the patch shall not require augers, conveyors or pumps to operate.

**1.1 Bidder qualifications:**

The equipment being bid must be new, current year production and meet the needs of this specification without modification. The model must be currently advertised, have been in production for a min. of two years and have a working volume of not less than called for in this specification. Hybrid, one-off or prototype equipment is unacceptable.

**1.2 Approved Equal:**

These specifications are not intended to be restrictive, but are meant to describe the kind and size of unit desired to be purchased in detail. If bidder is basing the proposal on equipment other than what is specified in these bid documents and wishes the equipment to be considered as an "approved equal" they shall submit on a separate sheet, an item by item description of that which is proposed. The bidder's specifications must be complete and of sufficient detail to cover all items included in this bid specification and in a manner that allows a direct comparison. Any item not covered will be deemed as not meeting specifications. Such bidder shall also include, but not as a substitute for the above, any manufacturer's literature. In addition, if the bidder takes exception to any item they shall note this and describe in detail the exception and how the proposal is an "approved equal". Failure to carry out the provisions noted herein may be deemed sufficient reason to reject the bidder's proposal. Check yes if demonstration has been performed prior to bid letting.

YES	NO

**2.0 Basic Machine Requirements:**

	YES	NO
2.1 Spray Injection design with aggregate supplied from tow vehicle by gravity feed tube.		
2.2 Trailer mounted and rated for highway class use.		
2.3 Diesel powered with engine enclosure.		
2.4 Electric blanket heated emulsion tank.		
2.5 emulsion working capacity of 250 gallons.		
2.6 Overnight electric heating for maintaining emulsion temp.		
2.7 Stop/ turn sealed lighting including clearance lights.		

**EXCEPTIONS:**

## Basic Specifications for a Spray Injection Patching Trailer

### 3.0 Emulsion heating and storage system:

The emulsion tank shall be an ASME certified pressure vessel with no more than 250 gallon capacity. It shall be pressurized, insulated and protected by a fire-retardant materials. The tank is to be equipped with filler opening and T-bolt closure. It shall be electrically heated and thermostatically controlled. The tank heating system must be capable of operating continuously regardless of whether the emulsion tank is empty or full with no damage to the heating elements or other components. This allows an empty tank to be pre-heated. The tank shall have a pressure relief.

YES	NO

### 3.1 Emulsion heating and storage minimum requirements:

#### 3.1.1 Construction:

The tank must be a pressure vessel and ASME certified.

#### 3.1.2 Rating:

250 gallon capacity, 195PSI working pressure at ambient temperature.

#### 3.1.3 Insulation:

Min. R15 rated fiberglass insulation.

#### 3.1.4 Outer Skin:

Waterproof fire retardant fiberglass tank wrap over insulation.

#### 3.1.5 Loading hatch:

For Safety, filler opening will be a min. 12" and be equipped with t bolt closures.

#### 3.1.6 Cleanout Valve:

Min 3" drain valve will be installed at the bottom of the tank.

#### 3.1.7 Heating source:

Tank will be wrapped with 2 electric blankets for overnight heating. Min. 1500W x (2) 120VAC. A thermostat and overnight heating extension cord will be included. Heating probes will not be considered for alternate as they do not allow tank pre heating and 100% use of emulsion tank volume.

#### 3.1.8 Operating temperature:

System must be capable of maintaining heat so as to allow operation of patcher in ambient temperatures as low as 5 degrees F.

YES	NO

#### EXCEPTIONS:



## Basic Specifications for a Spray Injection Patching Trailer

### 4.0 Trailer/ Frame/Lighting:

The patching unit will be trailer mounted and capable of being towed at safe highway speeds when fully loaded. The frame shall include rectangle tube frame construction, braking system and highway approved lighting.

YES	NO

### 4.1 Trailer minimum requirements:

#### 4.1.1 Construction:

The frame is to be constructed of minimum ¼" gusseted steel tube for safety and strength.

#### 4.1.2 Adjustable Hitch:

A 3" towing ring that is adjustable in height from 15" to 30" high will be provided for lateral adjustability.

#### 4.1.3 Fenders:

Minimum 12 gauge horizontal surface steel fenders.

#### 4.1.4 Jack:

A swing-away weight appropriate adjustable side-winder screw jack must be provided.

#### 4.1.5 Axle System:

To insure towing mobility in both forward and reverse directions, the trailer shall have a dual axle leaf spring system and be rated at a GAWR (Gross Axle Weight Rating) of 12,000 lbs

#### 4.1.6 Trailer Brakes:

Electric brakes, emergency breakaway switch, radial tires, and two 3/8" x 3 foot long safety chains with slip hooks will be included.

#### 4.1.7 Lighting:

Dual oval stop, tail, and turn lights will be included. Clearance lighting will also be included. A lighted license plate bracket will be attached to the fender.

#### 4.1.8 Directional Arrow Board:

A directional arrow board will be mounted at the back of the machine and be selectable for left/right or both traffic control.

#### 4.1.9 Wiring Harness:

The lighting harness will be woven loom with weather proof connectors at all lights. . A 7 way RV blade type plug will be included.

	YES	NO

### EXCEPTIONS:

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## Basic Specifications for a Spray Injection Patching Trailer

### 5.0 Aggregate Feed/Delivery System:

The pothole patching machine shall receive aggregate from the tow vehicle to a gravity feed hopper box of the unit. No augers, conveyors, or any other mechanical devices shall be allowed. The hopper box on the trailer shall be designed to hold the aggregate before it enters the air stream created by the blower. It must have a safety screen to allow aggregate up to 2-1/2" in size to pass into the system without clogging. No machine will be considered without demonstrating this capability. The aggregate feed system must be capable of reliably delivering 1/4" - 3/8" aggregate within an engine RPM range of 1200 - 1800.

YES	NO

### 5.1 Delivery System minimum requirements:

#### 5.1.1 Hopper:

Trailer mounted with integral screen with opening for slide gate

#### 5.1.2 Slide Gate:

Air operated with min 4" stroke air ram.

#### 5.1.3 Venturi:

Designed to draw aggregate into air steam.

#### 5.1.4: Aggregate delivery tube:

Min 3.5" ID schedule 40 pipe 10 ft. in length. Designed to be rotatable for maximum life.

#### 5.1.5 Aggregate delivery hose:

Aggregate hose will be min. 3.5" ID. Non-kinking, wire reinforced rubber neoprene-lined hose with a min. length of 192".

#### 5.1.6 Fatigue-Free Aggregate hose boom:

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.

#### 5.1.7 Operator Safety:

The boom design must keep the boom and the operator well out of the adjoining lane and the operator must be capable of placing the nozzle tip on the center stripe of a multi-lane roadway without any portion of the boom, or the operator, intruding over the center stripe.

#### 5.1.8 Emulsion Hose Heating:

A 12 volt pump shall circulate heat transfer oil through a pipe inside the emulsion tank and min. 3/8" diameter lines the full length of the hose to the emulsion nozzle, then back. All parts including: emulsion valves, hose, and nozzle will be heated by this hot fluid heating system.

YES	NO


## Basic Specifications for a Spray Injection Patching Trailer

**5.1.9 Heated Vent- Flow Nozzle:**

The nozzle shall be designed so it diffuses/ slows down the air stream at the tip to minimize overspray. The emulsion nozzle will be slotted to create a single fan of emulsion to properly coat the aggregate. The nozzle will be low voltage DC heated to prevent material build up during cold weather operation.

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**EXCEPTIONS:**

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**6.0 Engine Fuel and Cleanout System:**

The unit will be equipped diesel engine with spin-on type oil and fuel filters. It will be joined to the frame with rubber engine mounts to prevent vibration transfer. A management system will be located on the engine enclosure for ease of operation and maintenance.

<b>YES</b>	<b>NO</b>

**6.1 Engine and cleanout minimum requirements:**

**6.1.1 Diesel engine:**

The unit will be equipped with a water cooled direct injected, 74HP diesel engine. The engine will have spin-on type oil and fuel filters. Rubber isolation engine mounts are required.

<b>YES</b>	<b>NO</b>

**6.1.2 Engine Enclosure:**

The engine will be protected with an engine enclosure that is certified by the manufacturer. It will be lockable for security and provide noise reduction for operator Safety.

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**6.1.3 Engine Protection:**

Auto Shutdown protection will be provided for oil pressure and coolant temperature. Engine voltage, operating hours, and RPM will also be displayed.

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**6.1.4 Engine HP:**

The engine will be rated at no more than 74HP and be able to operate the delivery system to fill a patch with 1/4" stone @ 1100 RPM and 1 1/2 " stone at no more than 1800 RPM.

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**6.1.5 Protection:**

Engine Cover will enclose engine, battery and Air Compressor.

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**6.1.6 Fuel system:**

The unit will include a min. 18 gallon Diesel fuel tank.

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**6.1.7 Emulsion Flush System:**

A min. 13 gallon pressurized vessel will be included for flushing of emulsion lines and nozzle after use. It shall be equipped with a pressure relief valve set at 110 PSI.

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## Basic Specifications for a Spray Injection Patching Trailer

**6.1.8 Clean out box:**

A clean out container will be mounted to the frame of the machine. At end of shift, operator will place wand in container to flush emulsion lines and nozzle. 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. No system using a pump will be accepted.

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**EXCEPTIONS:**

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**7.0 Blower and Air Compressor:**

The unit will incorporate a direct driven High Volume Low Pressure Lobe type blower to operate the delivery system. No conveyor or auger type systems will be allowed due to higher wear parts and maintenance associated with those designs. An air compressor driven off the engine will also be required to pressurize the emulsion system. No pumps for emulsion delivery will be accepted.

<b>YES</b>	<b>NO</b>

**7.1 Blower and Compressor minimum requirements:**

	<b>YES</b>	<b>NO</b>
7.1 Blower will be rated at min. 450 CFM @ 7psi @ 1500 RPM		
7.2 Lobe style blower direct driven off patcher engine.		
7.3 Pop off valve set to 12 psi for protection.		
7.4 Dual Stage heavy duty filter element on Blower intake.		
7.5 Silencer to reduce airflow noise from blower system is required.		
7.6 Compressor to be 13 CFM min. Pressure relief set to 95psi		
7.7 No conveyors, augers or pumps will be used in the aggregate or emulsion delivery systems.		

**EXCEPTIONS:**

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**8.0 Paint and safety decals:**

The unit shall be painted Safety Orange. It will be equipped with required safety decals and signage.

<b>YES</b>	<b>NO</b>

**9.0 Warranty:**

The manufacturer shall warranty the equipment for a period of one year. Engine must be covered for Major Components for a period of 2 years or 2000 hours. Bidder warranty policy must be included with bid submittal.

<b>YES</b>	<b>NO</b>