# Pittsburg County, Oklahoma COUNTY PURCHASING OFFICE

Pittsburg County Court House McAlester, Oklahoma Phone: (918) 423-4934

## **INVITATION TO BID**

SIDE REL Notarized Af	REVIEW TERM ATING TO SUI fidavit completions	BMISSION	PAGE 1 OF	11-Aug-14	
BID NUME			BID CLOSING DATE AND HOUR	1	DELIVERY DATE
	Bid # 1		August 25, 2014 @ 10:00AM		Days after award of Purchase Order
TERMS:		4		DATE OF DELIVERY:	
Item	Quantity	Unit of issue	DESCRIPTION	Unit Price	Total
		15500	Pittsburg County wishes to advertise for the following:  OPTION #1 - One (1) or more, New, Spray Injection Patching Machine - Truck Mounted Lease purchase with financing included.  OPTION #2 - One (1) or more, New, Trailer Mounted Spray Injection Road Repair Machine Lease purchase with financing included.  SEE SPECIFICATIONS ATTACHED		

#### TERMS AND CONDITIONS

- 1. Sealed bids will be opened in the Commissioner's Conference Room, Pittsburg County Courthouse, McAlester, Oklahoma, at the time and date shown on the invitation to bid form.
- 2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of the envelope.
- 3. Unit prices will be guaranteed correct by the bidder.
- 4. Firm prices will be F.O.B. destination.
- 5. Purchases by Pittsburg County, Oklahoma, are not subject to state or federal taxes.
- 6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.
- 7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a notarized sworn statement of non-collusion. A form is supplied below.
- 8. Bids will be firm until delivered.

(DATE)

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say that he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Subscribed and sworn before this of20	day (seal)	
	Firm:	
My commission expires	Signed by:	Title:
	(MANUAL SIGNATURE (	OF UNDERSIGNED)
	Address:	Phone:
NOTARY PUBLIC (CLERK OR JUDGE)	<del></del>	
	City:	State
		Zin

## RESOLUTION #25 To Advertise

The Board of County Commissioners, Pittsburg County, met in regular session on Monday, August 11, 2014.

WHEREAS, Pittsburg County wishes to advertise for the following:

OPTION #1 - One (1) or more, New, Spray Injection Patching Machine - Truck Mounted Lease purchase with financing included

OPTION #2 - One (1) or more, New, Trailer Mounted Spray Injection Road Repair Machine, Lease purchase with financing included

A bid package containing complete specifications and an "Invitation to Bid" are available in the Pittsburg County Clerk's Office, 115 E. Carl Albert Pkwy, Room 103, McAlester, Oklahoma 74501 or on the county website at pittsburg.okcounties.org.

THEREFORE, each competitive bid submitted to the County must be accompanied with an affidavit for filing with the competitive bid form, as required by 61 O.S. \$ 138.

Sealed bids will be received and filed with the Pittsburg County Clerk and opened on August 25, 2014 at 10:00 a.m. in the conference room of the Board of County Commissioners, Pittsburg County Courthouse, 115 E. Carl Albert Pkwy., McAlester, Oklahoma. Contract will be awarded to the lowest or best bidder. The Board of County Commissioners, Pittsburg County, reserves the right to reject all bids and re-advertise.

BOARD OF COUNTY COMMISSIONERS PITTSBURG COUNTY, OKLAHOMA

KEVIN SMITH, Chairman

TRENT MYERS, Vice- Chairman

ATTEST:

HOPE TRAMMELL, County Clerk

#### BASIC SPECIFICATIONS FOR A SPRAY INJECTION PATCHING TRUCK

#### Option #1

### 1.0 Purpose:

Unit shall be truck mounted with a rear mounted boom 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 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 these specifications without modifications. The model must be currently advertised, have been in production for a minimum 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.

2.0 Basic Machine Requirements

	YES	NO
2.1 Spray Injection designed with aggregate supplied from Hopper by gravity		
feed.		
2.2 Chassis mounted and rated for highway class use.		
2.3 Self-Contained Diesel powered engine with enclosure.		
2.4 Electric blanket heated emulsion tank.		
2.5 Emulsion working capacity of 250 gallons.		
2.6 Overnight electric heating for maintaining emulsion temperature.		
2.7 Air delivery system with no augers or conveyors		

 	EXCEPTIONS	
		411

## 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 outer skin. 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.

NO

YES

Emulsion heating and storage minimum requirements: 3.1 YES NO 3.1.1 Construction: The tank must be a pressure vessel and ASME certified. 3.1.2 Rating: 250 gallon capacity, 200 PSI working pressure at 500 degrees 3.1.3 Insulation: Min. R15 rated fiberglass insulation. 3.1.4 Outer Skin: Waterproof fire retardant fiberglass construction. 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.  $1500W \times (2) 120VAC$ . 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 to allow operation of patcher in ambient temperature as low as 5 degrees F. **EXCEPTIONS:** 4.0 Patcher Frame/Lighting: The patching unit will be chassis mounted and designed to fit a 33,000 GVW standard chassis truck. YES NO 4.1 Patcher frame minimum requirements: YES NO 4.1.1 Construction: The frame is to be constructed of minimum 10" gusseted steel channel for safety and strength. 4.1.2 Integrated Aggregate Hopper: 6 yard min. capacity with min.  $9 \, \text{ft.} \times 7 \, \text{ft.}$  rectangular top opening to allow easy loading from a front end loader bucket. 4.1.3 Hopper Vibrator: A hopper vibrator will be included and wired to operate from cab of truck 4.1.4 Hopper Heater: An electric hopper heater will be included to help keep aggregate from building up on walls during the cold climate operation. 4.1.5 Fenders:

Rear steel fenders shall be included.

4.1.6 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.	
4.1.7 Chassis Mounting:	
The Patcher frame shall be secured to the truck chassis with U bolts.	

## 5.0 Aggregate Feed/Delivery System:

The pothole patching machine shall receive aggregate from the integrated hopper. No augers, conveyors, or any other mechanical devices shall be allowed. It must have the ability to pass aggregate up to  $2\frac{1}{2}$ " in size without clogging or manual adjustment. No machine will be considered without demonstrating this capability. The aggregate feed system must be capable of reliably delivering  $\frac{1}{4}$ " –  $\frac{3}{8}$ " aggregate within an engine RPM range of  $\frac{1}{200}$  –  $\frac{1}{800}$ .

YES	NO

5.1 Delivery System minimum requirements:

5.1 Delivery System minimum requirements:	VEC	NIC
	YES	NO
5.l.1 Hopper:		
Integrated 6 yd. rectangular in shape with 9 ft. x 7 ft. opening.		
5.1.2 Dual Slide Gates:		
Dual gates (one for operation and one for service to separate hopper from		
venture). Air operated with min. 4" stroke air ram.		
5.1.3 Venturi:	l,	
Designed to draw aggregate into air stream. Must have access panel.		
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, plastic wire reinforced		l
rubber neoprene-lined hose with a min. length of 164".		
5.1.6 Fatigue-Free Aggregate hose boom:		
The boom shall be a three section device that allows the operator to move	Į.	
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		ľ
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.		
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 nozzle emulsion tip will be slotted to create a		
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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## 7.0 Engine Fuel and Cleanout System:

The unit will be equipped with a 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.

7.1 Engine and cleanout minimum requirements:

7.1 Engine and cleanout minimum requirements:	YES	NO
7.1.1 Diesel Engine:		
The unit will be equipped with a water cooled direct injected, diesel engine. The		
engine will have spin-on type oil and fuel filters.		
7.1.2 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.		
7.1.3 Engine Protection:		
Auto Shutdown protection will be provided for alternator, oil pressure coolant		
temperature. An hour meter and RPM gauge will be included.		-
7.1.4 Engine HP:		
The Tier IV I Compliant engine will be rated at no more than 74 HP and be able	1	
to operate the delivery system to fill a patch with ¼" stone @ 1100 RPM and 1 ½"		
stone at no more than 1800 RPM.		<u> </u>
7.1.5 Protection:		
Engine cover will enclose engine, battery and Air Compressor.		-
7.1.6 Controller:		
Engine controller must be accessible without having to open engine cover and		
contain the Hour Meter, RPM Gauge and shutdown for Oil, Water and Battery.	-	
7.1.7 Fuel System:		
The unit will include a min. 18 gallon Diesel fuel tank.		
7.1.8 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.		-
7.1.9 Clean out box:		
A clean out box will be mounted to the frame of the machine. At end of shift,		
operator will place wand in box 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		1
operator. No system using a pump will be accepted.		1

EXCEPTIONS:		
8.0 Blower and Air Compressor:		
The unit will incorporate a direct driven High Volume Low Pressure roots ty operate the delivery system. No conveyor or auger type systems will be allow wear on parts and maintenance associated with those designs. An air comparengine will also be required to pressurize the emulsion system. No pumps for will be accepted.	wed due to hi essor driven	igher off the
will be accepted.	YES	NO
	,,	
8.1 Blower and Compressor minimum requirements:	l viro	1270
	YES	NO
8.1.1 Blower will be rated at min. 450 CFM @ 7 PSI @ 1500 RPM		
8.1.2 Lobe system blower direct driven off patcher engine.		
8.1.3 Pop off valve set to 10 PSI for protection		
8.1.4 Dual Stage heavy duty filter element on Blower intake.		
8.1.5 Air muffler to reduce airflow noise required.		
8.1.6 Air compressor to be 15 CFM min. with pressure relief set to 95 PSI.		
8.1.7 No conveyors, augers or pumps will be used in the aggregate or emulsi delivery systems.	.on	
EXCEPTIONS:	And the second	
9.0 Paint and safety decals:		
The unit shall be painted Omaha Orange Dupont Acrylic paint or equivalent equipped with required safety decals and signage.	. It will be	
equipped Will required surely debuts and organizer	YES	NO
10.0 Warranty		
The manufacturer shall warranty the equipment for a period of one year. Engovered for Major Components for a period of 2 years or 2000 hours. Bidder must be included with bid submittal.	gine must be warranty po	licy
must be included with blu submittal.	YES	NO

# SPECIFICATIONS FOR TRAILER MOUNTED SPRAY INJECTION ROAD REPAIR MACHINE

## Option #2

AGGREG	ATE SPRAY	POT	HOLE PATCHE	ER, T	RAILER MOUNTED,	NEV	V AND	OF C	URRENT
MODEL,	EQUIPPED	AS	ADVERTISED	BY	MANUFACTURER,	TO	MEET	OR	EXCEED
	-		SPECIFICATION						

PROPOSED POTHOLE PATCHER:	MAKE		MODEL	
		CATIONS		
GENERAL	PATCHER AGGREGAT A PRESSUI EQUIPPED NOZZLE. O AND AGGRE	SHALL BE C ESIZE½" DOWN RIZED AIR STI WITH A LIGH PERATOR CONTI	TCH TO A DUN APABLE OF D IN A CONTINUO REAM SYSTEM HT WEIGHT VE ROLS FOR ASPHA L SHALL BE CON ERATE.	DELIVERING US FLOWSY SHALL BE ENT FLOW LT NOZZEL
COMPLY YES/NO				
TRAILER:	FRAME, 12,0 RANGE D STANDARD SAFETY FLA	00 LB CAPACITY, FIRES, ELECTRIO 2 5/16" BALL HITO ASHING LIGHT A AL ARROW BOA	TUBE HEAVY DIDUAL AXLE, 4 – 7 C BRAKES, ACTION BRAKE AND TAIN DIRECTION AND MOUNTED C	.00x15 LOAD ULATED BY AIL LIGHTS, LL SIGNALS,
COMPLY YES/NO	_			
BLOWER-VAC AIR CONVEYOR:	ENTERING VOLT AIR S TO ALLOW SWITCH AT HAVE SAFT HANDLE AG AGGREGAT	AIR STREAM, SI OLENOID AND C AGGREGATE IN CONTROL HAI ETY SCREEN B GGREGATE FROM E UP TO 2 1/2"	ING AGGREGATIOE GATE OPER INE DUAL ACTING TO AIR STREAM INDLE. HOPPER OLTED IN PLA 14" - 1/2" GRADE SIZE TO PASS AGGREGATE SYS	ATED BY 12 IG AIR RAM BY REMOTE BOX SHALL CE, SHALL ALLOWING THROUGH
COMPLY YES/NO	3			

TAILGATE FEEDER:	BOX DESIGNED TO FIT REAR TAILGATE OF DUMP TRUCK, SHALL HAVE 5" DIAMETER FLEX HOSE FOR GRAVITY FEEDING OF AGGREGATE INTO HOPPER BOX. NO AUGERS OR PUMPS WILL BE ACCEPTED.
COMPLY YES/NO	_
ENGINE:	JOHN DEERE DIESEL OR EQUIVALENT, WATER COOLED
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 ARE UNDER 230 F.
COMPLY YES/NO	_
AIR FILTERS:	ENIGNE: PAPER ELEMENT BLOWER: PAPER ELEMENT WITH FOAM PRECLEANER COMPRESSOR: PAPER ELEMENT OR MAY USE ENGINE FILTER
COMPLY YES/NO	<del>.</del>
COMPRESSOR:	HEAVY DUTY CONTINUOUS USE DUAL STAGE WITH GOVENOR. BOLT DIRECTLY TO ENGINE AUXILARY DRIVE ELIMINATING BELT. NO BELT DRIVEN COMPRESSOR WILL BE ACCEPTED.
COMPLY YES/NO	

TANKS:

EMULSION TANK: 250 GALLON, 200 PSI WORKING PRESSURE AT 500 F- OPTIONAL 300 GALLON TANK RATED COVERED BY R-15 INSULATION: WEATHERPROOF FRP (FIBER REINFORCED PLASTIC) COVER THAT IS FIRE RETARDANT, HAS TWO 1,500 HEATER BLANKETS VOLT 120 THERMOSTATICALLY CONTROLLED. HEATING SYSTEM MUST BE CAPABLE OF HEATING AN EMPTY TANK WITHOUT DAMAGE TO THE HEATING SYSTEM. EMULSION TANK HAS 12" TOP LOADING PORT, AND 4" BOTTOM TANK DRAIN, FOR EASY CLEAN OUT. TANK HAS PRESSURE RELIEF VALVE SET BETWEEN 100 PSI AND 110 PSI PRESSURIZED EMULSION LINE CLEAN OUT TANK: 15 GAL. PRESSURIZED DIESEL TANK. 200 PSI WORKING AT 450 F. SAFETY PRESSURE RELIEF VALVE SET, BETWEEN 100 PSI AND 110 PSI. ENGINE FUEL TANK: 18 GALLONS.

HOSES:

AGGREGATE HOSE: 3 ½" I D SCHEDULE 40 PIPE 10' LONG CONNECTED TO 3 ½" ID 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:

3½" 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.

COMPLY	YES/NO	
	TLUITO	

#### 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, THEN 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 20 F. MACHINES CIRCULATING ENGINE COOLANT FROM ENGINE WILL NOT BE ACCEPTED.

COMPLY YES/NO	<del></del>
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 DEALED REPRESENTATIVE IS TO CHECK EQUIPMENT ON DELIVERY AND GIVE EQUIPMENT SUPERINTENDENT

PARTS AVAILABILITY:

DEALER NAME AND LOCATION WHERE PARTS AND

SERVICE ARE AVAILABLE.

LITERATURE: TWO (2) SETS OF OPERATOR'S MANUAL, REPAIR

REOUIREMENTS.

MANUAL AND PARTS BOOK TO BE FURNISHED WITH

INFORMATION ON OPERATION AND SERVICE

EACH UNIT.

CERTIFICATION:

THE MANUFACTURER SHALL FURNISH CERTIFICATION THAT THIS MACHINE SHALL MEET OR SURPASS THE REQUIREMENTS OF DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS AS LISTED IN THE FEDERAL REGISTER (OSHA), TO BE FURNISHED WITH BID.

**REFERENCES:** 

EACH BIDDER IS TO FURNISH A LIST OF TEN (10) REFERENCES FOR THE MODEL BID.

### DESCRIPTIVE LITERATURE IS TO BE FURNISHED WITH THE BID TO SUBSTANTIATE THE DETAILS SPECIFIED IN THE BID

		\$	/EACH
	DELIVERY:	-	DAYS ARO
REPAIR MANUAL:		\$	/EACH
OPERATOR'S MANUAL:		\$	/EACH
PARTS MANUAL:		\$	/EACH
CONTRACTOR OF THE CONTRACTOR O			NAME:
COMPANY:			NAIVIE:
ADDRESS:			SIGNED BY:
			TITLE:
PHONE:			DATE:
FAX∙			