Limestone County Commission

May 1, 2019

INVITATION FOR BIDS
Proposal No. 2688

Trailer Mounted Bituminous Adhesive Machine-One Seat
District 4

Notice is hereby given that the Commission of Limestone County, Alabama will receive competitive bids on the following item: **Trailer Mounted Bituminous Adhesive Machine-One Seat**. Please see the attached specifications.

TAX: All applicable taxes and/or fees must be included in the amount of the bid price.

F.O.B: Athens, Alabama. Date of Delivery: 4-6 weeks from purchase order date.

Terms: Net 30 days.

You are invited to bid on printing needs of the Limestone County Commission. Any substitutes offered must be submitted in detail. The right to reject any items or materials not of quality or under any provisions of this act is reserved.

Bids will be opened on **Thursday**, the **16th** day of **May 2019,** and awarded on **Monday**, the **20th** day of **May 2019**.

REQUIREMENT: Pursuant to Alabama Code 31-13-9, as a condition of the award of any contract, the business entity or employer, and any of its subcontractors, shall provide a sworn affidavit and documentation that it will not knowingly employ, hire for employment, or continue to employ an unauthorized alien; that it is enrolled in the E-Verify program; and, during the contract period, it will participate in the E-Verify program and will verify every employee that is required to be verified under applicable state and federal laws. During the performance of the contract, the business entity or employer shall participate in the E-Verify program and shall verify every employee that is required to be verified according to the applicable federal rules and regulations.

310 West Washington Street • Athens, Alabama 35611 • Phone (256) 233-6400 • Fax (256) 233-6403
www.limestonecounty-al.gov

Bids can be mailed or hand delivered by the opening date and time to: Limestone County Commission, 310 W. Washington Street, Athens, AL 35611.

All bids must be sealed and the word "BID", name of item, proposal number, and opening date should be marked on the outside of the envelope.

Collin Daly, Chairman
Limestone County Commission

MINIMUM SPECIFICATIONS
FOR TRAILER MOUNTED
BITUMINOUS ADHESIVE MACHINE
ONE SEAT

SCOPE

1.0

The following are standard specifications for a trailer mounted bitumen type marker adhesive applicator capable of heating and dispensing metered quantities of thermal adhesive bitumen-type material at approximately 425 degrees on roadways.

TRAILER

2.0

The frame is to be constructed of 2" x 2" X 11 gauge steel square tubing or greater with mitered and full electric welded joints. Cross members and support pieces are of 1/8" x 1-1/2" x 1-1/2" angle steel or greater. Bed of trailer is to be made of 11 gauge steel plate or greater. Trailer to have 1700 lbs. or greater leaf springs, a 4" offset axle, and two 13 x 175-80-D tries. Tail lights are to be enclosed, all wiring is to be inside frame with 4 prong connector near hitch, should have tag plate holder with light. Operator's safety containment bar and L.P. bottle support bracket with lower ring and positive holding clamp is to be Welded to trailer bed. The tongue is to be a minimum of 3 ft. long with 2" snap action ball hitch mounted to a minimum of 10" adjustable vertical or horizontal plate with safety chain. Jack is to be a standard crank-type swing- away jack stand mounted to trailer.

2.1

The box should be constructed from minimum of 14 gauge steel and minimum of 23" x 32" x 12" in size mounted to trailer bed.

2.2

A metal basket should be mounted to the trailer bed and located by the operator and a minimum of 18" x 30" x 5".

2.3
An operator's seat, complete with foot support, guard rail and seat belt, should be located on left side in front of trailer wheel. Foot support should be a minimum of 12" wide with a 3" lip for containment and safety, and adjustable to leg length. The complete seat and foot frame with valve line, should swivel to a vertical position and fasten in.

POWER PACK

3.0
The power pack frame is constructed from a minimum of 1/4" x 3" angle iron and mounted to trailer and supported by 1" rubber pads off trailer bed. Generator, air compressor, engine and belt guard should all be mounted to frame.

3.1
Generator: minimum of 2000 watts 120 VAC at 3600 RPM.

3.2
Air Compressor: minimum of 2.5 CFM at 100 PSI, equipped with a minimum of a 15-gallon air tank with safety overload valve. Air system pressure should be controlled by continuous run unloader valve.

3.3
Engine: 8hp or greater, L.P. fueled, electric start motor with oversize muffler.

MATERIAL MELTING UNIT

4.0
The vat support frame should be constructed from minimum of C4-5.4 channel iron with supporting pieces made of minimum 1/8" x 1-1/2" x 1-1/2" angle and 1/4" x 1" x 1" angle mounted to trailer frame.

4.1
A minimum of a 39-gallon vat, constructed from 10 gauge steel or greater with ridge supports welded to vat and bolted to vat support. Latch on lid is to be provided to prevent accidental opening.

4.2
The jacket is constructed of a minimum of 22 gauge galvanized steel with one inner and one outer jacket supporting 1" thick fiberglass Durablanket insulating material. 1" captive heat chamber should be on all sides of vat. The heating chamber should be vented by holes in top of the insulation jacket allowing heat on bottom and all sides of vat. Access should be provided to light pilot flame.

4.3
Heating system should use a minimum of a ten-inch, 60,000 BTU burner to melt the bituminous material. A flame guard should be included to protect bottom of vat.

4.4
Burner should be thermostatically controlled with an adjustable temperature minimum range of 175 degrees to 550 degrees. The vat is equipped with a 0 to 650 degree of greater thermometer with a 24" stem. Thermostat sensing bulb and thermometer should be located together in vat for an accurate temperature.

4.5
Gas valves used with system should be mill volt powered, 100% safety shut-off valve with block out installed for L.P. gas only. The system should includes all necessary piping, connectors, regulators, and valves for operation.

4.6
The vat should be equipped with an agitator controlled by on/off switch. A removable manual crank handle should be provided to operate agitator manually. The agitator shaft should be supported at top and bottom of vat.

DISPENSING SYSTEM

5.0

Pump: A free floating piston and valve combination capable of dispensing a minimum of 0-9 cubic inches of material per stroke at a minimum of 0-20 strokes per minute. The pump should have a safety shut of valve and volume control screw. Pump should be enclosed in an insulated jacket and heated from heating chamber of vat.

5.1

Dispensing Pipe: Should be made of a minimum of 1" schedule 80 pipe connected by a horizontal/vertical cross swivel and supported under the seat support and trailer. Both pipes should be wrapped with a minimum of 1 layer of 1" fiberglass blanket, 1 layer of 1/8" x 2" woven fiberfrax and 1 layer of hi-heat adhesive aluminum duct tape. All items which are hot to touch should be enclosed or marked red.

5.2

In-Line Heaters: Line pipes should be heated internally with two "MI" 3/16 2/c s.s. Sheathed heaters connected in series to produce 70 watts per foot at 120 VAC, sensored by type "J" thermocouple. Temperature controlled with a minimum accuracy + or -1% at 77 degrees ambient and + or - 10% voltage input, operating environment 30-130 degrees; 0-90% RH, dial setting 0-600 degrees.

5.3

Dispensing Valve: Should be a drip free quick action plunger. Valve should be heated by a cartridge heater and controlled by preset thermostat. Metered control of shots are to be activated by foot pedal. Valve head should be approximately 3" above pavement in operating position and capable of horizontal swivel action over an 18-inch radius.

Control System

6.0

The control box should be a powder coat finish and mounted to box on trailer within easy reach of operator.

6.1

The control board should consist of the following:

- #1 Solid state Microprocessor with lighted display
- #2 Fuse holder
- #3 Input power switch to control board on/off
- #4 Power stirrer switch on/off
- #5 Dispenser valve heat switch on/off with indicator light
- #6 Flow line temperature switch on/off with indicator light
- #7 Safety air valve control switch on/off

6.2

The air regulator box should be a powder coat finish and mounted on tool box. The air regulator box should contain a pressure regulator, gauge and solenoid valve.

MISCELLANEOUS

7.0

Wiring: All wiring should be insulated and enclosed in flexible conduit or by some other form. Wiring is to be securely fastened at sufficient intervals to prevent sagging and ensure clearance of moveable and mechanical parts.

7.1

Fittings: The unit should include all necessary piping, connectors, regulators, valves, and other fittings for operation.

7.3

Manuals: A detailed manual containing illustrated parts list, operating and service instructions for the unit and engines shall be delivered with each unit.

7.4

Warranty: The manufacturer shall replace or repair without charge any system component or components found to be defective in workmanship and/or material during the first year after shipment.

Delivery date of finished product must be no later than 3-4 weeks from purchase order date.

BID PRICE (including all taxes and/or fees) $_____

Name of Company: _____

Signature: _____

Printed Name: _____

Address: _____

_____

Telephone: _____