

MOBILE COUNTY COMMISSION

205 Government Street
 Mobile, Alabama 36644
 PO BOX 1443
 Mobile, AL 36633

BID INVITATION**NO. 49-10****AUGUST 13, 2010**

In accordance with General Act No. 217, Special Session 1967, notice is hereby given that the Mobile County Commission, Mobile, Alabama, will receive bids on the following items:

A MINIMUM OF ONE (1) NEW BITUMINOUS DISTRIBUTOR FOR MOBILE COUNTY PUBLIC WORKS DEPARTMENT AS PER ATTACHED SPECIFICATIONS:

Any questions or comments concerning the bid requirements must be brought to the attention of the Purchasing Agent, Susan Holland, 251-574-8613, 205 Government Street, 8th floor south, Mobile, Alabama 36644, to or at bid opening or will be forever waived.

All bidders shall furnish a five (5%) percent bid bond on any contract exceeding \$10,000; provided, that bonding is available for services, equipment or materials.

Out of State Corporations shall furnish a Certificate of Authority to transact business in the State of Alabama. Out of State limited liability companies shall proof of registration to transact business in this state.

If applicable to a contract resulting from this invitation, the successful bidder must comply with the Contractor Felony Investigation Policy, available in the Purchasing Department or at mobilecounty.org.

This inquiry is to establish a price and a source of supply for the above listed items by Mobile County Commission and the incorporated areas therein. Purchases by political subdivisions are optional with those agencies.

THE MOBILE COUNTY COMMISSION DOES NOT DISCRIMINATE ON THE BASIS OF RACE, AGE, SEX, NATIONAL ORIGIN, RELIGION, OR DISABILITIES.

F.O.B. Mobile DATE OF DELIVERY _____ TERMS _____ You are invited to bid on the above specifications. The restrictions contained herein are for the purpose of fixing a quality level, and any deviation therefrom must, in detail establish that it meets the quality requirements.

BIDS WILL BE RECEIVED UNTIL 10:00 A.M. AUGUST 25, 2010

ALL BIDS MUST BE SEALED, THE WORD "BID", THE BID NUMBER AND THE NAME OF THE ITEM MARKED ON THE OUTSIDE OF THE ENVELOPE. BIDS WILL BE RECEIVED BY THE RECEPTIONIST IN THE OFFICE OF THE COUNTY COMMISSION ADMINISTRATOR, 205 GOVERNMENT STREET ON THE EIGHTH FLOOR OF THE MOBILE COUNTY GOVERNMENT PLAZA. FAILURE TO OBSERVE THE ABOVE INSTRUCTIONS WILL CONSTITUTE GROUNDS FOR REJECTION OF YOUR BID. THE COMMISSION RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS.

MOBILE COUNTY COMMISSION



 JOHN PAFENBACH, COUNTY ADMINISTRATOR

We propose to meet the above specifications for the sum
 of \$ _____.
 Delivery can be made in _____ days from receipt of award.

RESPECTFULLY

BY _____

MOBILE COUNTY COMMISSION

BID FORM

Date: _____

BID #49-10

*A MINIMUM OF ONE (1) NEW BITUMINOUS DISTRIBUTOR FOR MOBILE COUNTY
PUBLIC WORKS DEPARTMENT:*

Company _____

Company Representative _____
(Print)

Title _____

Company Representative _____
Signature

Address _____

Phone number () _____ **Fax number** () _____

Federal ID Number _____

**MINIMUM REQUIRED SPECIFICATIONS
FOR
ONE (1) NEW BITUMINOUS DISTRIBUTOR
FOR
MOBILE COUNTY PUBLIC WORKS DEPARTMENT
CAB AND CHASSIS SPECIFICATIONS**

| | |
|----------------------|---|
| ENGINE: | 210 hp min.520 lb. Torque min. |
| TRANSMISSION: | 6 Speed |
| GVWR | 33000 lbs. |
| TIRES: | 11 R – 22.5 14 Ply Highway Tread Tubeless Radial |
| MIRRORS: | West Coast – Both sides w/convex section and Breakaway capable |
| WHEELS: | Disc Type |
| BRAKES: | Air Brakes with 13.2 cu. Ft. Compressor with automatic Slack adjusters |
| STEERING: | Power |
| FUEL TANK: | 45 gallon min. metal step tank |
| WIPERS: | 2 Speed Electric Intermittent |
| RADIO: | AM/FM w/ weather band, factory installed |
| A/C HEAT: | Factory installed with air filter |
| COLOR: | White//Distributor Black |
| SEAT: | Seating capacity: three (3) |

REQUIRED OPTIONAL ITEMS

Body Building Wiring: located back of cab w/sealed connections
Circuit Breakers – Manual reset type
Tow Hooks
Truck bodies to be black
Fiberglass tilting hood
Hot shift w/ overspeed and direct mounted pump
Mud flaps
Safety backup alarm
All inclusive manufacturer's warranty 24 mo. Bumper to bumper plus 5 year/100,000 miles, parts and labor warranty on engine and engine electronics, transmission, transmission electronics, differentials, and drive line with "0" deductible.

The responsive bidder will be the warranty service provider for said Manufacturer or Manufacturers and will provide assurances that they have the authority, ability and capacity to service such warranty work at no cost to the County.

DISTRIBUTOR SPECIFICATIONS

REQUIRED FUNCTION:

The distributor shall perform the following functions:
Fill tank by distributor pump from outside source.
Circulate material in tank.
Circulate material in spray bar.
Spray at a constant desired application rate, regardless of variance in truck speed.
Return material in hand spray to tank by pump suction.
Transfer from an outside source to another outside source without having material enter distributor tank.
Pump material back to supply source.
Automatically go from circulate in spray bar to spray mode and return to circulate Without pushing material over relief valve.

It is important that the distributor be capable of returning all material in spray bar, hand spray and distributing lines to the distributor tank by means of pump suction.

Unit shall use volumetric metering with no by-pass when spraying to insure accuracy of application.

Provision shall be made for easily draining the circulating system independently of the tank and for flushing circulating system and pump with not more than three (3) quarts of fuel oil so as not to dilute tank contents.

REQUIRED TANKS AND FITTINGS:

Capacity: 1900 US gallons minimum

Shape: Oval in cross section, with the long axis horizontal

Material: Shell to be 10 gauge steel. All seams welded for strength and durability.

Surge Plates: Tank to be supported with full section surge plates, constructed of 10 gauge steel. To be spaced to provide adequate tank strength and proper surge control. Openings shall be provided in the surge plates for the free flow of material to the pump.

Manhole: 20" minimum diameter manhole with quick-opening cover.

Overflow: 3" diameter flow, extending to at least 6 inches above the liquid, and draining internally only through the bottom of the tank in such a location as to clear all chassis members.

Insulation: 2" fiberglass 1 lb density with spacers to prevent compression, protected by aluminum jacket sheet (.40").

Tank Mounting: Mounting saddles shall be full bolter style. Includes aluminum fenders.

Tank gauge: float type, with dial calibrated in 100 gallon increments.

Measuring Stick: Calibrated in 50 gallon increments.

Spillage Collar and Overflow Drain, including refiners platform and ladder.

Must meet all DOT specs for tanks under 4000 gallon

REQUIRED POWER UNIT

Type: Hydrostatic transmission, consisting of:

1. **Pump:** Infinitely variable displacement 3.1 cubic inches per revolution, axial piston type. Electronic control.

- 2. Motor: Heavy duty Piston type, direct coupled to asphalt pump. Entire transmission unit shall be capable of operation speed up to 2800 rpm.**

Crankshaft Take-Off: Hydrostatic pump driven by crankshaft take off, chassis must be equipped to accept crankshaft drive

Hydraulic oil may reach temperature up to 200 degrees without damage to the unit. Unit shall have internal valving, and shall be fitted with relief valve and high oil temperature in cab.

Hydraulic Lines:

- 1. High pressure hose with swagged type split flange "o" ring fittings per S.A.E. standards.**
- 2. Low pressure hose installation shall be made according to transmission Manufacturer's recommendations. Only top quality fittings, tubing and hosing to be used.**

Controls: electronics micro-control of hydrostatic transmission for setting Asphalt pump discharge rate shall be located in truck cab. Control to permit Stopping the variable pump discharge without disconnecting the drive and Be equipped with an override of the micro-control which shall allow increases in asphalt pump output for filing, sucking back, etc., without Affecting application rate setting. Override control shall be located in truck cab and at rear of unit.

REQUIRED BITUMEN PUMP

Type: Positive displacement rotary gear type.

Capacity: Minimum of 400 gallons per minute.

Self Flushing line from fuel tank or heating system to fill line. Includes minimum 20 gallon capacity fuel tank with float level gauge. Located away from burners for safe operation.

REQUIRED HEATING SYSTEM

Flues (2) with (2) LPG burners, with minimum of 1,000,000 BTU per hour per burner capacity each. A side mounted 52 gal LPG tank shall be provided

REQUIRED SPRAY BAR

Full circulating bar capable of going to 14' width, to permit folding for traveling. Length of bar in folding position not to exceed 8 feet.

Bar feed tubes to be steel.

Positive circulation from one end of the bar to the other end, regardless of bar length or asphalt pump rate.

Electric - air on-off in 1' increments, cab-controlled.

Electric-hydraulic spray bar shifting, lifting and wing folding, cab-controlled. There shall be a position for bar flush on controls.

Nozzles to be spaced on 4" centers on spray bar and shall have an individual valve for each spray nozzle. Each nozzle valve to have flip lever control so bar length can be adjusted, and allows individual valves to be disconnected without the use of tools or pulling pins. Right and left side wings (bar extensions) to relieve fore and aft. Pin replacement required when bar relieves.

REQUIRED AIR CONTROLS

Driver Operated Cab Control:

Distributor shall be equipped with air controls. Air for the controls shall be obtained from the air system on the truck chassis. The Distributor air system shall

Include its own air reservoir with check valve set at 80 pounds to prevent loss of air on truck chassis brakes in case lines are ruptured. System shall have its own air line oiling device and controls shall be electric, located in cab convenient to operator.

Air Operated:

All air solenoid valves and hydraulic solenoid valves are to be mounted to be accessible and serviceable from the ground without climbing on the machine.

REQUIRED TOOL BOX, FENDERS, ETC

Tool Box: All steel box of sufficient size to store all necessary tools shall be furnished at side of the tank. Must have hinged door at side with flush-type lock. Door at top not acceptable.

Fenders: Full dual flanged fenders (.80" aluminum) with rubber flaps. Use of skirting and flaps as a substitute for fenders not acceptable.

REQUIRED CONTROLS/INSTRUMENTATION

Computer with in-cab operator controls which include:

- Computer controlled switches for 10 (minimum) present application rates**
- Distance/volume reset switch**
- Application rate adjustment switch**
- Display select switch.**

In-cab instrumentation will include the following information on a self-illuminated display(s).

- Truck travel speed feet/minute and/or meters/minute.**
- Application rate in gallons/square yard and/or liters/square yard**
- Pump rate in gallons/minute and/or liters/minute**
- Resettable distance sprayed in feet and/or meters**
- Resettable volume sprayed in gallons and/or liters**
- Low tank level warning.**
- Warnings that travel speed and/or application rate is beyond system Capability.**
- Tank circulation, bar circulation, suckback control actuator in cab.**
- Radar type sensor to pick-up ground speed.**

REQUIRED ACCESSORIES

Hose trough for fill hose in lieu of hoods.

Thermometer well on side of tank.

Liquid sampling valve to be state approved for taking samples of liquid asphalt located in the rear tank head.

Required Hand spray attachment with cold handle and not less than 3 nozzles, with 25' of 3/4" flexible rubber hand spray hose.

Strainers: asphalt system to be designed so all liquid asphalt pumped to the tank, from the tank or to the spray bar must pass through a screen.

Turn signals: at rear of distributor with truck supplying chassis control of signals.

Light: Federal Standard 108 requirements, including reflectors, clearance and identification lights. Wiring in loom.

All necessary special tools for operation and maintenance of the Distributor shall be provided.

Wet storage box with drain plug and hinged lid.

Power wash down system to be included.

Fill hose to be included.

REQUIRED WARRANTY

Minimum 12-month warranty of distributor and components, both labor and materials.

The responsive bidder will be the warranty service provider for said Manufacturer or Manufacturers and will provide assurances that they have the authority, ability, and capacity to service such warranty work at no cost to the County.

With the bid shall be included manufacturer's descriptive literature and specifications on unit being bid, and a list of any exceptions to these specifications. Bidder will supply parts manual and complete operating instruction manual with bid.

Bid is to be submitted as a complete unit (chassis and distributor). Instruction shall be provided for operator on maintenance and operation by factory representative on delivery.

REQUIRED DELIVERY

Five (5) days from award of bid.