



Racine County Finance Department

Racine County Courthouse
730 Wisconsin Avenue
Racine, WI 53403-1238
Phone (262) 636-3129
Fax (262) 636-3763

Kenneth J. Schmidt
Purchasing Coordinator

January 16, 2017

Dear Prospective Bidder:

You are invited to submit a bid to provide Racine County with One (1) Towable Melter Applicator of Asphalt Rubber Sealant. Sealed bids are due on or before 2:00 p.m. on Thursday, February 23, 2017 at the above address. Late bids will not be accepted.

Responses must be in a sealed envelope or box and show the firm's name, address, and solicitation number on the cover. Your response must be manually signed and dated and include all requested information.

Any general questions regarding this Invitation for Bids may be directed to Kenneth Schmidt, Purchasing Coordinator at (262) 636-3700 between the hours of 8:00 a.m. and 4:30 p.m., Monday through Friday or via electronic mail at ken.schmidt@racinecounty.com.

No other Racine County employees or representatives other than those specified above are authorized to provide information or interpret any portion of this solicitation. No contact from a vendor to any Racine County employee or elected official should be made during this process unless authorized by Racine County Finance Department.

Sincerely,

Kenneth J. Schmidt

Kenneth J. Schmidt
Purchasing Coordinator

Encl: Bid Package

INVITATION FOR BID

Bid # 17-PW-004

Towable Melter Applicator of Asphalt Rubber Sealant

I. INSTRUCTIONS TO BIDDER

A. GENERAL

The purpose of the specification is to convey Racine County's requirements for the purchase of one (1) new Towable Melter Applicator of Asphalt Rubber Sealant

The intent of these specifications is:

- to stipulate the MINIMUM acceptable requirements of good engineering design and performance,
- to establish the bidder's responsibility to furnish all necessary appurtenances and labor in supplying the vehicle being advertised for and,
- to assure complete conformance by the successful bidder with the requirements outlined.

Any item omitted which is clearly necessary for the satisfactory performance of the proposed equipment, even though not directly specified, shall be considered a part of the contract.

The term "Heavy Duty" as used to describe an item shall mean in excess of the usual quantity, quality, or capacity that is normally supplied with the standard production vehicle, or components.

B. BIDDER'S QUESTIONS

Bidders are reminded to carefully examine the bid and specifications upon receipt. If the Bidder does not fully understand the Invitation for Bid (IFB) or is in doubt as to the County's ideas or intentions concerning any portion of the IFB, contact Kenneth Schmidt, Purchasing Coordinator, for interpretation or correction of any printed material.

Phone: (262) 636-3700

Fax: (262) 636-3763

E-mail: ken.schmidt@racinecounty.com

Technical questions may be directed to Brett McDonald, Shop Operations Manager at (262) 886-8446 between 8:00 a.m. and 3:30 p.m., Monday through Friday.

C. METHOD OF BID

Bidders shall submit bids on the forms provided. See Section III. CONTENTS OF BID for a list of documents to be included. Bids written in pencil or in a format other than the attached worksheets will be rejected. Erasures or corrections of mistakes on Bid Forms or Minimum Specifications will be initialed or signed by bidder. Failure to meet any requirements listed in this bid document may be cause for disqualification of the bid. Each bid shall include the pricing, delivery, and acknowledgement of addendum(s) if any.

A legally authorized representative of the bidder will sign the Certification of Vendor page (page 12) in blue ink. This form shall be the cover page for all submitted bids. At least one copy of the Certification of Vendor (page 12) shall have an original signature.

Two (2) copies of all bids shall be submitted to the Racine County Finance Department. Each copy shall include the Certification of Vendor (page 12), Bid Form (page 13), as

well as the Minimum Specifications (page 6-11).

D. PROPRIETARY INFORMATION

Any information held to be proprietary by a bidder must be plainly marked as such and may not include pricing.

E. INCURRING COSTS

Racine County shall not be liable for any costs incurred by a vendor in replying to this IFB including any vendor meetings.

F. ADDRESSING OF BIDS

The bid shall be submitted in a sealed envelope. Sealed envelope shall be marked with bidder's return address and shall be addressed as follows:

To: KENNETH J. SCHMIDT
PURCHASING COORDINATOR
RACINE COUNTY COURTHOUSE, RM. 400
730 WISCONSIN AVE
RACINE, WI 53403

On the front of the envelope, write:

"BID: TOWABLE MELTER APPLICATOR OF ASPHALT RUBBER SEALANT, DUE FEBRUARY 23, 2017"

G. DUE DATE

Sealed bids will be accepted by the Racine County Finance Department until 2:00 P.M. local time, Thursday, February 23, 2017. The bids will then be publicly opened and read aloud.

II. TERMS AND CONDITIONS

A. NEW EQUIPMENT

The equipment offered are to be of the latest type and commercial model manufactured and is to be new and unused. Manufacturer's literature covering specifications and description of equipment must accompany bid. The equipment shall be furnished and delivered complete with operating accessories, modifications and equipment as specified herein.

B. SAFETY REQUIREMENTS

It shall be the successful bidder's responsibility that the equipment completely conforms to all applicable State of Wisconsin and Federal motor vehicle safety laws, regulations, and standards in effect on the date of equipment delivery.

C. DEMONSTRATION

Racine County reserves the right to request a demonstration of any bidder's proposed equipment, prior to issuance of a purchase order.

D. TRADE INS

Racine County reserves the right to accept the trade-in allowances or to keep the proposed trade-in units for auction at a later date. The successful bidder agrees that any trade-in equipment will not be surrendered until the new equipment is in road-operable condition and in service for Racine County.

E. VIEWING EQUIPMENT

Arrangements to view the trade-in units may be made by contacting Brett McDonald, Shop Operations Manager, at (262) 886-8446 between the hours of 8:00 a.m. and 3:30 p.m., Monday through Friday.

F. DELIVERY

Each bidder must state in his bid the time required for delivery. Extreme late delivery, determined by Racine County to be thirty (30) days after promised delivery date, shall be cause for contract cancellation.

Equipment is to be delivered to Racine County Public Works, 14200 Washington Avenue, Sturtevant, WI 53177. Contact Brett McDonald (262-636-8446) to arrange delivery.

G. TAXES TO BE EXCLUDED

All bids are tax exempt as Racine County is not subject to State and Federal Tax.

H. PRICING

All bid prices must include delivery, F.O.B. destination freight prepaid, unless otherwise specified in the bid invitation.

Prices must be net after deducting all trade and quantity discounts. Where cash discounts for prompt payment are offered, the discount period shall begin with the date of receipt of a correct invoice or receipt of final acceptance of goods, whichever is later. Vendors who wish to quote a discount for early payment may do so by noting the discount in the Payment Terms on the Invitation for Bid Form; for example – 2/15 net 30. Discounts will be considered when evaluating costs.

I. WARRANTY

Warranty shall start the day vehicles are placed in service at the Public Works Department. The manufacturer shall warrant piece of equipment and any furnished devices, against parts failure or malfunction due to design, construction, installation, or errors in assembly of components, defective material, and workmanship.

J. PURCHASE ORDERS

No shipment shall be made under the contract until a Purchase Order has been received unless otherwise agreed to by the Purchasing Coordinator in writing.

K. DESCRIPTIVE LITERATURE

Bidder shall attach manufacturer's current literature and specifications covering the latest model of equipment that is bid and that specifically and clearly indicates coverage of all items shown in the bid specifications. If the manufacturer's literature does not clearly reflect these items, the bidder shall attach certification from the manufacturer verifying compliance with the bid specifications.

L. AFFIRMATIVE ACTION

Racine County is committed to fulfilling its role as an Affirmative Action/Equal Opportunity Employer. We request your vigorous support of our Affirmative Action efforts. Our relationship with your agency is based upon your willingness to accept and comply with Executive Order 11246, as amended, and other federal laws requiring equal employment opportunity without regard to race, religion, color, national origin, sex, disability or veteran status. By signing the Certification of Bidder page, you indicate your acceptance and compliance.

III. **AWARD CRITERION**

A. RESPONSIBLE BIDDER

Award will be made to the lowest responsive, responsible bidder conforming to the specifications, terms and conditions, or, to the most advantageous bid for Racine County on a quality versus price basis. Awards will not be made to any person, firm, or company in default of a contract with the County, or to any bidder having as its sales agent, representative, or any member of the firm, any individual previously in default or guilty of misrepresentation.

B. AWARD AUTHORITY

The Racine County Public Works Department will be the sole judge of the quality and suitability of the equipment, materials, and/or services offered in its determination of the successful bidder.

All bidders, by submission of their respective bids, agree to abide by the rules, regulations, and procedure of Racine County. Racine County reserves the right, at its sole discretion to utilize the services of an independent ancillary service with the most successful bidder. Intent to award will not be made and a contract will not be executed until Racine County, at its sole discretion, accepts the proposed bid.

C. OTHER CONSIDERATIONS

In making the award for furnishing this equipment, factors other than price may be considered such as delivery date, parts, service, local and past experience with vehicle and equipment, adaptability to County's requirements, operating advantages, structural design of machine, etc.

D. DISQUALIFICATION

Bidder shall bid on all items listed in the IFB. Bids with substitutions of specified equipment and/or failure to provide pricing will result in a **noncompliance** bid and will be viewed as a "No Bid".

IV. **CONTENTS OF BID**

Each bid shall contain the following documents in this order:

1. Certification of Vendor page – page 12 – one original signature in blue ink required.
2. Bid Form – page 13.
3. Minimum Specifications – pages 6 through 11.
4. Details of exceptions or alternates to the minimum specifications if required.
5. Manufacturer literature.

Failure to fully complete bid package could result in rejection of the bid.

V. MINIMUM SPECIFICATION

The purpose of these specifications is to describe a double-boiler type melter applicator that is specifically designed for, and capable of, heating and applying all grades of asphalt rubber sealant, fiber modified asphalt sealant and specification joint sealant without any further equipment modification. Prior to bid award an on-site demonstration of the equipment offered may be requested. Failure to provide a demonstration of model bid is deemed sufficient reason to reject the bidder's proposal.

| 1. GENERAL SPECIFICATIONS | <u>Comply</u> | <u>Non-Comply</u> |
|--|----------------------|--------------------------|
| A. The machine shall be capable of starting at ambient temperature and bringing the sealant material up to application temperature in one hour at 70° F ambient temperature. | _____ | _____ |
| B. All qualified bidders must have and maintain a complete inventory of replacement parts and have experienced factory-trained service personnel for this equipment. | _____ | _____ |
| C. A factory-trained person shall be on site at Racine County Public Works for the initial start-up and training in the operation of the melter. | _____ | _____ |
| D. Temperature indicating devices shall have intervals no greater than 1° F and shall be calibrated as required to assure accuracy. | _____ | _____ |
| E. The melter shall have continuous sealant agitation and mixing system to provide uniform viscosity and temperature of material being applied. | _____ | _____ |
| 2. REQUIRED SAFETY FEATURES | <u>Comply</u> | <u>Non-Comply</u> |
| A. The unit shall have a safety shut-off on the lid that automatically stops the agitator when the lid is opened. | _____ | _____ |
| B. The applicator wand shall be equipped with an automatic shut-off feature that will stop the rotation of the sealant pump, sealant flow, and all line pressure when the handle is released or dropped. | _____ | _____ |
| C. The heat transfer oil shall adequately and efficiently bring the sealant material to application temperature without the use of a heat transfer oil circulation pump. | _____ | _____ |
| D. A fire extinguisher shall be mounted on the trailer frame. | _____ | _____ |
| 3. TOWING FRAME AND JACK | <u>Comply</u> | <u>Non-Comply</u> |
| A. This unit shall be trailer mounted. | _____ | _____ |
| B. The tongue shall be equipped with a 3 inch pintle hitch and shall be adjustable in height above ground level from a minimum of 14 inches to a maximum of 32 inches. | _____ | _____ |
| D. A screw-post tongue jack shall be installed. It shall be heavy duty type with a capacity of 5,000 pounds. It shall be side mounted and swing away for positive road clearance while under tow. | _____ | _____ |

4. TRAILER RUNNING GEAR

Comply

Non-Comply

- A. The unit shall have dual LED taillights, stoplights and turn signals. Lights shall be ICC approved. A license plate holder shall be attached to the driver's side tail light.
- B. A 7 blade trailer plug shall be installed.
- C. All melter fluid tanks shall be positioned no lower than the deck level and mounted on top of the channel frame members to assure proper ground clearance. Units that have components that extend below the trailer frame are unacceptable.
- D. The unit shall also be equipped with two safety chains not less than 48 inches long of .38 inch coil proof chain attached to the tongue.

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5. HEATING TANK

Comply

Non-Comply

- A. The material heating tank shall have a minimum capacity of 250 gallons at ambient temperature. Oval or square sided tanks are unacceptable.
- B. The tank will have a rear discharge from the pump and rear plug outlet. A double boiler type jacket shall create a reservoir that shall hold a minimum of 49 gallons and require no more than 55 gallons of heat transfer oil at 70° F.
- C. The jacket shall wrap around 100% of the outside area of the circular material tank and bottom and allow for complete circulation of the heated transfer oil.
- D. There shall be one plug to allow the entire heat transfer oil system to be drained.
- F. The heat transfer oil shall be of ISO grade 68.
- G. A sealed expansion tank. Overflow down tubes are unacceptable.

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7. HYDRAULIC SYSTEM

Comply

Non-Comply

- A. The hydraulic system shall incorporate a hydraulic pump to power the agitation, and pumping system. Belt driven hydraulics is unacceptable.
- B. All valves shall be solenoid operated by toggle switch and wand handle switch.
- C. The controls will allow for bi-directional operation of the sealant pump and agitator.
- D. A flow control valve will be mounted on the rear of the unit to allow the operator to adjust the pump operational speed.
- E. The minimum 26 gallon hydraulic tank will be equipped with an internal 10-micron full flow filter. The filter shall be equipped with a restriction indicator to indicate the need for service. A sight gauge level indicator equipped with a thermometer that measures oil temperature will be mounted on the tank and located where it is easily viewed.
- F. The unit shall have a self-contained air to oil hydraulic cooler with an electric fan to maintain proper hydraulic oil

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temperatures.

8. TANK INSULATION

- A. The heating tank shall be insulated with a minimum of 1 1/2 inch thick high temperature ceramic insulation and covered by a 22 gauge steel outer wrapper. Fiberglass and rock wool insulation are unacceptable.

Comply Non-Comply

9. LOADING HATCH

- A. A low profile angled lid opening for loading shall be required at the top of the material tank and be located on the curbside of the machine. The loading height shall be a minimum of 50 inches and shall not exceed 59 inches
- B. Loading systems that require the operator to step onto the melter are unacceptable.
- C. The opening shall have a minimum area of 384 square inches and shall be hinged to allow placement of a block of sealant onto lid and closure of lid for easy, anti-splash loading.

Comply Non-Comply

10. HEATING SYSTEM

- A. The heat transfer oil is heated by one 12-volt 290,000 BTU high efficiency forced air diesel fired burner directly at the bottom of the heat transfer oil tank
- B. The burner shall fire into a burner combustion box. The box will be insulated by a high temperature flexible insulation. Rigid insulation is unacceptable.
- C. The total area exposed to the burner shall be sized sufficiently to provide a melt rate of 2,000 pounds per hour.
- D. The burner shall be lit by a constant duty high voltage transformer powering an electric spark ignitor. This ignitor shall work in conjunction with a sensor that detects a lack of burn or ignition and shuts down the fuel supply.
- E. The thermostat control is located on the curbside of the machine for operator safety.

Comply Non-Comply

11. INTERGRATED CONTROL SYSTEM

- A. The melter applicator shall have a thermostatic control device that will automatically regulate hot oil, material, and hose temperature.
- B. The control shall have a digital readout for temperatures of hot oil, material, and hose.
- C. The thermostat shall control burner ignition for a temperature range from a low of 200° F up to a high of 425° F.
- D. The temperature controls shall be in a single weatherproof control box.
- E. The controls shall be activated by a single power switch, which will then turn each function on at the proper time.
- F. The control will have fully integrated electric over hydraulic lockout for the agitation system, preventing the agitator from being powered until the material temperature reaches 275°F.

Comply Non-Comply

- G. The control shall have a fully integrated electric over hydraulic lockout for the pumping system, preventing the pump from being powered until the hose temperature reaches 325°F. _____
- H. This control box shall also contain the engine ignition controls, hour meter and any engine gauges. _____

12. DRIVE AND DRIVE CONTROLS

Comply **Non-Comply**

- A. The motive force to the agitator and material pump shall be hydraulic motors driven by a hydraulic pump. _____
- B. The drive controls governing the rotational speed of the material pump shall be controlled by adjustable hydraulic valves. _____
- C. The drive controls governing the rotational speed of the material pump shall be controlled by adjustable hydraulic valves. _____
- D. The material pump will have infinite speed control and is electrically actuated by a toggle switch on the control panel or a switch on the hand wand. _____

13. AGITATION

Comply **Non-Comply**

- A. The sealant material shall be mixed by a hydraulically driven, full sweep vertical agitator with two opposing horizontal paddles and vertical risers attached to the ends. _____
- B. The agitation system shall be chain driven from the hydraulic motor to the agitator. _____
- C. The agitator rotates in both directions. _____
- D. The agitator will shut off automatically when the loading hatch is opened. _____

14. BI-DIRECTIONAL VARIABLE SPEED PUMPING UNIT

Comply **Non-Comply**

- A. A hardened steel gear pump is located in the center of the material tank attached to the bottom of the tank. _____
- B. Pumping of material is controlled by a switch on the hand wand and output is controlled hydraulically. _____
- C. The pump and agitator drive shaft stands vertically attached to two motors on the top surface of the tank. _____
- D. One motor rotates an axial tube having radial mixing blades at the chamber bottom. _____
- E. The second motor drives a coaxial shaft running through the tube to the pump. _____
- F. Sealant pumping shall be on demand. _____
- G. When pumping stops, all line pressure and sealant flow shall stop. _____
- H. No external plumbing or recirculation back into the tank is acceptable. _____
- I. No internal or external valves shall be used in the pumping and sealant delivery system. _____
- J. The pump shall be capable of delivering sealant at a rate that exceeds the melt rate of the unit. _____

| 15. ACTIVE PUMP PROTECTION | <u>Comply</u> | <u>Non-Comply</u> |
|--|----------------------|--------------------------|
| A. The pump shall be completely encircled by a protective screen. | _____ | _____ |
| B. The screen shall not allow anything larger than 1/2 inch in size to pass from the sealant tank into the pump suction port. | _____ | _____ |
| C. The screen shall continuously rotate 360° around the pump and will self-clean whenever the sealant agitator is engaged. | _____ | _____ |
| | | |
| 16. SEALANT HOSE AND APPLICATOR WAND | <u>Comply</u> | <u>Non-Comply</u> |
| A. Both the hose and wand are heated by 24 VAC voltage electric current and are temperature regulated. | _____ | _____ |
| B. The combination length between the hose and wand shall not be less than 22 feet. | _____ | _____ |
| C. For safety reasons, an oil-jacketed hose is unacceptable. | _____ | _____ |
| D. The hose shall be manufactured for handling liquid asphalt products up to 500° F at 500 psi working pressure. | _____ | _____ |
| E. Hose shall not be less than 18 feet in length and shall be made of stainless steel braid with a 3/4 inch inside diameter and Teflon lined. It also shall be heavily insulated to prevent hot material from leaking out. | _____ | _____ |
| F. Total diameter of the hose shall be not greater than 2 ¼ inches. The total weight of the hose shall not exceed 20 pounds. | _____ | _____ |
| G. The hose is to be wrapped with a minimum of three electrical wires with terminal ends capable of heating the hose to 400°F in less than 45 minutes and have variable temperature control capability. | _____ | _____ |
| H. The hand wand shall not be less than 4 feet in length. | _____ | _____ |
| I. The hand wand shall be constructed of steel with sufficient strength to withstand normal day-to-day operation. | _____ | _____ |
| J. Material flow is controlled by a trigger switch. | _____ | _____ |
| K. The connection between the wand and hose shall be through a 360° swivel. | _____ | _____ |
| L. There shall be no obstruction or valves between the material pump and the wand end. | _____ | _____ |
| M. The hose is supported by a 6 ft. boom which swivels side to side on dual pillow block bearings. | _____ | _____ |
| N. The boom is centered at the rear of the machine. | _____ | _____ |
| | | |
| 17. DIESEL ENGINE | <u>Comply</u> | <u>Non-Comply</u> |
| The unit shall comply with the following specifications: | | |
| a. Electric Start | _____ | _____ |
| b. Three Cylinder 25.4 HP | _____ | _____ |
| c. Constant Speed Mechanical Governor | _____ | _____ |
| d. Full Flow Oil Filter | _____ | _____ |
| e. Water Cooled | _____ | _____ |
| f. The engine speed is preset at the factory | _____ | _____ |
| g. Engine shutdown for low oil pressure & high temperature. | _____ | _____ |
| | | |
| 18. FUEL CAPACITY | <u>Comply</u> | <u>Non-Comply</u> |
| A. The melter shall have a 32 gallon diesel fuel tank for operation of the entire unit. | _____ | _____ |
| B. The unit will be capable of operating for a minimum of 12 hours on one tank of fuel. | _____ | _____ |

C. The tank shall be equipped with full length sight gauges for fuel level indication protected in a steel cover.

19. PAINT

Comply

Non-Comply

A. All painted surfaces shall be coated with two-part epoxy paint

20. TRAINING

Comply

Non-Comply

A. An authorized, factory representative will be on site at the Public Works Facility for a full day of training consisting of a complete operational, mechanical and safety overview of the machine.

B. Additionally, the representative will be available at that time for any "on the job" safety and field training.

21. MANUALS

Comply

Non-

A. A written copy of each of the following manuals will be supplied with unit:

- 1. Operational
- 2. Maintenance
- 3. Parts
- 4. Safety

22. PARTS

Comply

Non-Comply

A. Provide one complete set of filters.

B. Bidder must have a parts/service location within 50 miles of the Racine County Public Works facility.

24. WARRANTY

Comply

Non-Comply

A. The manufacturer shall warranty the equipment for one year

CERTIFICATION OF VENDOR

Bid #17-PW-004

TOWABLE MELTER APPLICATOR OF ASPHALT RUBBER SEALANT

I fully understand the requirement of the County of Racine and certify on behalf of my Company that we can meet the requirements stated above.

SIGNATURE: _____

TYPED/PRINTED NAME: _____

TITLE: _____

COMPANY: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

TELEPHONE: _____

FAX: _____

E-MAIL: _____

DATE: _____

BID FORM

Vendor: _____

PRICE: New Current Model Year Towable Melter Applicator of Asphalt Rubber Sealant

Make/Model: _____ \$ _____

Manufacturer Discount-Deduct: \$ _____

TOTAL for Single Machine \$ _____

TRADE IN ALLOWANCE*

Racine County Vehicle Number: 402
1997 Craftco EZ350D Deduct \$ _____

**Racine County reserves the right to list the identified trade-in on the Wisconsin Surplus On-Line Auction web site and accept the greater offer achieved between the Wisconsin Surplus On-Line Auction and the trade in allowance offered in this solicitation*

NET BID PRICE: This is a firm bid price complete as specified: \$ _____

***** VENDOR DELIVERY TIME FROM DATE OF ORDER:** _____ (Number of Days)

Note: This will be an important factor in the bid analysis.