**Stepp SMM Tailgate Master Mixer**

**Bidding Specifications**

**1.0 INTENT**

It is the intent of this specification to provide for the purchase of one (1) new and unused STEPP SMM MASTER MIXER to be used for the purpose of recycling asphalt materials for pothole patching.

The following specification is based upon a STEPP SMM MASTER MIXER. The Public Works Department has evaluated different styles of recycling equipment and has determined that this product is best suited for the DPW needs in terms of quality and features. This specification shall not be interpreted as restrictive, but rather as a measure of quality and performance against which all other distributors will be compared.

In comparing proposals, comparisons will not be confined to price only. The successful bidder will be the one whose product is judged as best serving the interests of the DPW when price, product, quality, and delivery are considered. The DPW also reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements.

**2.0 EQUIVALENT PRODUCT**

Bids will be accepted for consideration on any make or model that is equal or superior to the recycler specified herein. Decisions of equivalency will be at the sole interpretation of the DPW. A blanket statement that equipment proposed will meet all requirements will not be sufficient to establish equivalence. An original manufacturer’s brochure of the proposed product is to be submitted with the proposal.

**3.0 INTERPRETATIONS**

In order to be fair to all bidders, no oral interpretations will be given to any bidder, as to the meaning of the specification documents or any part thereof. Every request for such a consideration shall be made in writing. Based on such inquiry, the DPW may choose to issue an addendum in accordance with local state laws.

**4.0 GENERAL**

The specification herein states the minimum requirements of the DPW. All bids must be regular in every respect. Unauthorized conditions, limitations, or provisions shall be cause for rejection. The DPW will consider as irregular or non-responsive, any and all bids that are not prepared and submitted in accordance with the bid document and specification, or any bid lacking sufficient technical literature to enable the DPW to make a reasonable determination of compliance to the specification. It shall be the bidder’s responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (COMPLY: YES NO) will cause the proposal to be rejected without review as non responsive. All variances, exceptions, and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.

**5.0 SPECIFICATIONS COMPLY**

|  |  |  |
| --- | --- | --- |
| **GENERAL CONSTRUCTION:**  The unit shall be all welded construction for maximum strength. Components that may need to be removed for service or replacement shall be installed with rust resistant plated hardware. All permanent electrical connections are to be soldered and then protected with heat-shrink tubing to provide trouble-free service. All other connectors are to be treated with dielectric grease compound to protect against moisture and corrosion damage. | **YES** | **NO** |
| **TANK:**  The unit’s frame shall be two (2) 2”x 2” frames with adjustable hooks to attach the unit to the tailgate of a dump truck. |  |  |
| The frame shall have four (4) adjustable legs with pins to adjust the unit height for different truck heights. They shall be capable of being pinned in the “up” position for road clearance. |  |  |
| The hopper shall have a capacity of four (4) cubic feet. |  |  |
| Shall have dimensions of 76”x 41”x 86” (LxWxH) and weigh no more than 1600# empty. |  |  |
| Shall have 2” ceramic insulation and a 16 gauge steel insulation jacket. |  |  |
| The mixing chamber shall be a pugmill recycler capable of recycling asphalt millings and chunk asphalt in less than 15 minutes. |  |  |
| The mixing chamber is constructed of ¼” AR400 steel with a replaceable liner. |  |  |
| The mounting system is to include tailgate hooks for mounting and shall have provisions for chain downs. |  |  |
| **SHOVEL PLATFORM:**  The material shall be dispensed onto an attached shoveling platform. The platform shall be removable to dispense material directly onto the roadway. |  |  |
| **HEATING SYSTEM:**  Shall be diesel fired with a fire box constructed of 3/16” steel. |  |  |
| Shall be designed so as no flame will come in contact with any material. |  |  |
| Diesel burner to be Beckett forced air diesel fuel burner with an operating output of up to 125,000 BTU. The burner shall be completely self contained with automatic ignition and safety shut off circuitry to stop the fuel flow if the flame goes out. The burner shall be designed to operate on 12 volt DC power without the need for additional adaptors or apparatus. The heating system shall operate on either #1 or #2 diesel fuel. Fuel is supplied from a 30 gallon fuel tank. |  |  |
| Hydraulic drive mixer shall be driven from a hydraulic motor that shall be powered by the truck’s hydraulic system. The mixer shall have a hydraulic flow control valve to operate the mixer in the mix and discharge mode (forward/reverse). The pugmill mixer shall be of replaceable bolt-on design. |  |  |
| Burner timer shall aid in the production of recycled materials. The timer shall be resettable and adjustable in seconds and minutes. The burner will shut off once the timer has reached the set time, preventing over-heating of material. |  |  |
| Shall be insulated with 1 ½” of refractory type insulation. |  |  |
| **PAINT:**  Surfaces of the unit will properly prepared and primed per standard  industry practices. |  |  |
| **WARRANTY:**  Shall be one year on parts, materials, and workmanship. Product pumps and hoses that handle heated materials shall have a 12 month pro-rated warranty. Component parts such as engines, hydraulic components, tires, etc., shall be covered by the component manufacturer’s warranty. |  |  |
| **OPTIONAL FEATURES** |  |  |
| **SHOVEL CLEANING COMPARTMENT:**  Shall be constructed of 12 gauge material with splash guard compartments, drain plug, and rain tight cover. Shall hold (4) four shovels. |  |  |
| **LIGHTS:**  2 light system |  |  |
| **STROBE LIGHTS:**  12 volt powered. Controlled from operators control panel. Strobe mounted on top rear of machine. |  |  |
| **HONDA GASOLINE ENGINE:**  Shall be model GX390, air cooled, 4-stroke OHV petrol engine, 25”  inclined cylinder, with horizontal shaft. Shall be 11HP with the transistorized igniter system and recoil electric start system. Shall have an 18AMP charging circuit. |  |  |
| **ARROW BOARD:**  12 volt powered directional arrowboard. Controlled from operators control box. Mounted on rear of machine. |  |  |

**Exceptions & Deviations**

Bidder shall fully describe every variance, exception, and/or deviation. List the item number here and fully explain any items in non-compliance with specification. Additional sheets may be used if required.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_