

NOTICE TO BIDDERS

Lease/Purchase of Landfill Crawler Tractor with Bulldozer Worcester County, Maryland

The Worcester County Commissioners are currently accepting sealed bids for the lease/purchase of one (1) new Landfill Crawler Tractor with Bulldozer for the Solid Waste Division of the Department of Public Works. Bid specification packages and bid forms are available from the Office of the County Commissioners, Room 1103 - Worcester County Government Center, One West Market Street, Snow Hill, Maryland 21863, obtained online at www.co.worcester.md.us or by calling the Commissioners' Office at 410-632-1194 to request a package by mail. **Sealed bids will be accepted until 1:00 PM, Monday, April 10, 2017** in the Office of the County Commissioners, Room 1103 - Worcester County Government Center, One West Market Street, Snow Hill, Maryland 21863, at which time they will be opened and publicly read aloud. Envelopes shall be marked "**Bid for Landfill Crawler Tractor with Bulldozer**" in the lower left-hand corner. After opening, bids will be forwarded to the Public Works Department for tabulation, review and recommendation to the County Commissioners for their consideration at a future meeting. In awarding the bid, the Commissioners reserve the right to reject any and all bids, waive formalities, informalities and technicalities therein, and to take whatever bid they determine to be in the best interest of the County considering lowest or best bid, quality of goods and work, time of delivery or completion, responsibility of bidders being considered, previous experience of bidders with County contracts, or any other factors they deem appropriate. All inquiries shall be directed to Mike Mitchell, Solid Waste Superintendent, at 410-632-3177.

GENERAL REQUIREMENTS:

1. The bidder must submit with the bid a complete set of specifications on the unit proposed. Copies of standard and extended warranties shall be submitted with bid.
2. The unit must meet all emission, sound and safety controls required by Federal, O.S.H.A and M.O.S.H.A regulations.
3. Prior to delivery, the unit shall be:
 - a. Complete with all accessories and equipment properly installed and operational.
 - b. Cleaned, lubricated and ready for immediate use.

SPECIFICATIONS:

The equipment called for in this specification shall be a **Landfill Crawler Tractor w/Bulldozer** to be used by the Worcester County Public Works Dept. – Solid waste Division. It shall be the standard product of one manufacturer. The selling dealer shall provide the parts and service facilities to properly service the machine and all its components and assure its performance. Any and all parts or attachments not specifically mentioned but necessary to furnish complete equipment shall be furnished by the successful bidder and they shall conform in strength, quality of material and workmanship to what is usually provided by good engineering practice indicated in these specifications. Bulldozer shall be the current model in production at time of bid.

BASIC SPECIFICATIONS:

- Basic Operating weight shall not be less than 50,000 lb. (includes lubricants, coolant and full fuel tank. PAT blade with tilt cylinder, 30” shoes. Cab, hydraulic controls, drawbar and operator).
- The overall length of the intermediate gauge tractor shall not exceed 210 inches when equipped with PAT blade.
- The overall width over track of the tractor when equipped with PAT blade shall not exceed 116 inches.
- Ground clearance per SAE J1234 shall be at least 15 inches when measured from the face of the shoe for the tractor.

ENGINE:

- The engine shall be of diesel type, four-stroke cycle, fully equipped with all necessary operating accessories. The engine shall be mounted so as to be accessible for adjustment and normal servicing without being detached from the tractor unit.
- The engine shall meet current emission specifications for the U.S. (EPA).
- Engine shall utilize only clean filtered air for combustion, not extra trapped or recirculated exhaust gas (EGR) from previous combustion events. Diesel engine users have noted EGR can increase maintenance intervals and contribute to more frequent engine rebuilds.
- Engine shall develop at least 195 net flywheel hp in first gear. Net flywheel hp shall be for standard equipped engine operating under SAE standard conditions J1349) at 77 degrees F and 29.32 Hg dry barometer using 35 degree API gravity fuel.
- Standard equipment shall include:
 - Turbocharger
 - Aftercooler
 - Fan
 - Air cleaner
 - Water pump
 - Fuel Pump
 - Muffler
 - Lubricating oil pump
- Maximum governed speed shall be 2000 RPM at rated hp.
- Engine shall have a turbocharger and aftercooler providing full fwHP to a minimum of 7500 ft before altitude duration for all models.
- Engine air cleaner shall have a service indicator
- Machine shall be equipped with a 24-volt electrical starting and operating system.
- Machine shall be equipped with water separator.
- Engine shall be equipped with an electric fuel priming system.

POWERTRAIN TRANSMISSION:

- Transmission shall be a planetary type power shift with torque converter or equal.
- Transmission shall provide at least three speeds forward and three speeds in reverse.
- A single control unit for both direction and speed changes shall control transmission.
- Transmission shall have a forward ground speed of at least 7 mph and a reverse ground speed of at least 9 mph.
- Transmission shall have auto-shift and auto-knockdown features available.
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STEERING:

- Integrated electronic steering and transmission shall be available through the tractor manufacturer.
- Machine shall utilize differential steering to control the direction and degree of turns, forward-reverse shifting, and gear selection in a single handle or equal.
- Touch shift buttons on the steering control shall shift the electronically controlled powershift transmission.

HYDRAULICS:

- Hydraulics and controls shall have a fully enclosed protected system.
- Hydraulics and controls shall have a load sensing, variable displacement piston pump, which adjusts hydraulic flow to match implement demand.
- Hydraulics and controls shall have a single lever for dozer control functions.
- Hydraulic pump output at 1,001 psi shall not be less than 54 gal/min.
- Hydraulic lift cylinder flow at 1,001 psi shall not be less than 50.2 gal/min.
- Tilt cylinder flow at 1,001 psi shall not be less than 21.1 gal/min.
- Ripper cylinder flow at 1,001 psi shall not be less than 42.3 gal/min.
- Hydraulic controls main relief valve pressure setting shall not be less than 3500 psi.

UNDERCARRIAGE:

- Undercarriage shall have reinforced box section and tubular track roller frame construction to resist bending and torsional loads.
- Undercarriage shall have a roller frame attached to the tractor by a pivot shaft and pinned equalizer bar.
- Undercarriage shall have seven (7) rollers per side.
- Undercarriage shall be of rotating bushing design with internal oil lubrication, and have incorporated center tread idlers for maximum life and minimum maintenance. Design shall be that of the tractor manufacturer.
- Tractor shall have a minimum 80 inch gauge.
- Tractor shall have a minimum 30 inch shoe standard.
- Tractor shall have a minimum 113 inch length of track on ground.
- Tractor shall have a minimum of 6780 square inches ground contact area with standard shoe.
- Tractor maximum ground pressure of 6.72 psi when equipped with standard shoes, PAT blade, cab, fuel and lubricants.

FINAL DRIVES:

- Final drives shall be fully enclosed.
- Final drives shall be double reduction, planetary design.

OPERATORS STATION:

- Modular cab shall be available through the tractor manufacturer.
- Tractor shall be equipped with electronic indicators and gauges, which monitor critical operational systems and alert the operator when potential problems occur.
- Operator seat shall include retractable seat belt.
- Cab shall have a 12 volt or 24 volt AM-FM radio, equipped with 2 speakers, an antenna and a radio mount recessed in the headliner.
- Operator shall have a clear working view to the blade and rear of the machine provided by a tapered hood, notched fuel tank, narrow single shank ripper carriage and large single pane windows as well as a low rear window.
- Seat shall be adjustable with side seat bolsters to restrain side to side movement as well as a rolled-down front edge for less pressure on the operator's thighs.
- Seat shall have standard adjustable arm rests that are adjustable without the use of tools.
- Instrument panel shall have easy to read gauges and warning lamps that keep the operator aware of fuel level, hydraulic oil temperature, powertrain oil temperature, engine oil pressure, transmission gear indicator. All gauges shall be easily visible in direct sunlight.
- Cab shall be equipped with heating and air conditioning and controls shall be easily accessible from the operator's seat.
- Cab shall feature a 10 amp, 12 volt power convenient for the convenient use of radios, wireless phones and laptop computers.
- A decelerator pedal shall give the operator full control of engine speed when the rocker switch is in the high idle position.

DOZER BLADE:

- Blade must have a heavy duty rack with a minimum of 24 inches above the top of blade.
- 6PAT bulldozer shall be a maximum 164 inches wide.
- 6PAT bulldozer shall be a minimum 51 inches high.
- 6PAT bulldozer shall be a minimum 17 inch tilt.
- 6PAT bulldozer shall be a minimum 43 inch lift above ground.
- 6PAT bulldozer shall be a minimum 29 inch drop below ground.
- 6PAT bulldozer shall be a minimum dozer capacity of 6.5 cubic yards.

SERVICEABILITY:

- Machine shall have sight gauges, easy to access filter, oil and coolant ports and an engine compartment mounted work light.
- The engine shall have a minimum of 500-hour oil change interval.
- Transmission shall have a minimum of 1000-hour oil change period.
- Undercarriage shall have lifetime lubricated carrier rollers (if equipped).
- Undercarriage shall have lifetime lubricated track rollers.

SERVICEABILITY(cont.):

- Undercarriage shall have sealed and lifetime lubricated idlers.
- Undercarriage shall have bolt-on, replaceable sprocket segments.
- Undercarriage shall have hydraulic track adjustment by grease gun, fully sealed.
- Final drives shall have a minimum 2000-hour oil change period.
- Quick disconnect fittings shall allow for fast diagnosis of the power train and hydraulic oil systems.

MINIMUM SERVICE FILL CAPACITIES:

- Fuel tank capacity shall not be less than 108 gallons.
- Cooling system capacity shall not be less than 13 gallons.
- Engine crankcase capacity shall not be less than 6 gallons.
- Power train capacity shall not be less than 38.5 gallons.
- Each final drive shall have a capacity of not less than 3.6 gallons.
- Each roller frame shall have a capacity of not less than 6.5 gallons.
- Hydraulic tank capacity shall not be less than 15 gallons.
- Pivot shaft compartment capacity shall not be less than 1.3 gallons.

LANDFILL PACKAGE:

- Machine must be equipped with an automatic fire suppression system.
- Machine must have heavy duty guards to protect hydraulic tank, fuel tank and engine compartment.
- Machine must be equipped with heavy duty belly pans with front tow hook.
- Machine must have front and rear striker bars to prevent damage to lower portion of cab.
- Machine must have a minimum of 6 facing lights and 4 rearward facing lights.
- Engine shall be equipped with reversible fan to eject debris from radiator.

ADDITIONAL OPTIONS:

- Machine shall have an undercarriage system available that does not require a master style link and has sealed for life cartridge style joints.
- A rotating bushing style undercarriage system is required with a minimum of 30 inch pad, 7 bottom roller frame and at least 1 carrier roller per side.

SERVICE:

Machine shall be designed to simplify and minimize requirement for routine maintenance. Bidders shall be required to prepare an estimate of hourly lubrication and maintenance and demonstrate relative ease of performing manufacturer's recommended routine maintenance requirements.

WARRANTY:

The vendor shall supply the county with two (2) copies of the Manufacturer's warranty at the time of delivery. Warranty shall be full machine warranty for five (5) years, or 12,500 hours on total machine, including travel & mileage and a list shall be supplied by seller of components covered. If machine is inoperable for more than 2 days, successful bidder must supply the county with a machine of equal specifications until repairs are made to county machine.

ADJUSTED COST AND FIVE YEAR REPURCHASE PROGRAM

The County will determine an adjusted bid by considering depreciation when analyzing bids. Accordingly, an award of contract under these specifications may be made on basis of the lowest adjusted bid to be determined as follows:

Each bidder shall submit a price bid for equipment proposed pursuant to these specifications, together with the price at which he will agree to buy back said equipment at any time within a period of five (5) years from the date of delivery. Such repurchase shall be deducted from the price for the equipment and the result will be the adjusted price.

The County reserves the right to sell the equipment back to the contractor at any time during the five (5) year period at the purchase price stated in the bid, or to make no resale whatsoever.

The County warrants the equipment sold back to the contractor will be in operating condition at time of repurchase.

The contractor shall be excluded from performance under the contract only if prevented directly or indirectly by fire, flood, strike, act of God, war, or act of Government.

The price or prices quoted shall include all transportation charges including all applicable motor vehicle fees fully prepaid to (address at destination).

Purchaser desires delivery to be completed within 90 days from date of award. Bidder certifies delivery will be completed in 120 days from date of award.

Awards will be made on the best value offered. Clauses requiring specific guarantees to cover parts delivery, total repairs and resale value may be included. The quality of the articles to be supplied, their conformity with the specifications, their suitability to requirements, delivery terms and guarantee clauses shall be taken into consideration.

The purchaser reserves the right to reject any or all bids, waive any informality in bids and accept in whole or in such bid or bids as may be deemed in the best interest of the purchaser.

APPROVED EQUALS

In all specifications where a material or article is defined by describing a proprietary product or by using the name of a vendor or manufacturer, it can be assumed that an equal can be substituted. The use of a named product is an attempt to set a particular standard of quality and type that is familiar to the County. Such references are not tended to be restrictive. However, the County shall decide if a product does in fact meet or exceed the quality of the specifications listed in the solicitation. It shall be the responsibility of the vendor that claims his product is an equal to provide documentation to support such a claim.

Bid Form

I have reviewed the specifications and provisions for furnishing
One (1) Landfill Crawler Tractor w/Bulldozer and understand the said requirements.

I hereby propose to furnish this unit as follows:

One (1) Landfill Crawler Tractor w/Bulldozer

Make: _____ Model: _____

Delivered to: Department of Public Works - Solid Waste Division
7091 Central Site Lane, Newark, Maryland, 21841

Purchase with Guaranteed Buy Back at end of Five (5) Years; Five (5) Year, Full Machine
Warranty with 12,500 hours and Five (5) Year Parts Availability Warranty.

Acquisition Cost	\$ _____
Less Guaranteed Buy Back at end of Five (5) Years	\$ _____
Net Adjusted Price	\$ _____
Monthly Payment for Sixty mo. - Lease Purchase Option	\$ _____
Interest Rate	\$ _____

Described unit will be delivered within _____ calendar days from receipt of written order.

Successful bidder must supply County with equal machine until new machine is delivered and be responsible for all services and repairs to said machine.

BID MUST BE SIGNED TO BE VALID.

Date: _____

Signature: _____

Typed Name: _____

Title: _____

Firm: _____

Address: _____

Phone: _____