

HENDERSON COUNTY HIGHWAY DEPARTMENT  
IS SEEKING BIDS ON THE FOLLOWING.

DESCRIPTION OF SERVICE/PRODUCT:	Low-Boy Tractor **interested parties must download specifications from <a href="http://www.hendersoncountyttn.gov">www.hendersoncountyttn.gov</a> or pickup at Highway Department
CONTACT FOR ADDITIONAL INFORMATION:	STEVE VINEYARD, HIGHWAY SUPERINTENDENT
ADDRESS TO MAIL/BRING BIDS:	Henderson County Finance 17 Monroe St, 2 <sup>nd</sup> Floor PO Box 495 Lexington, TN 38351
DATE/TIME BIDS MUST BE RECEIVED AND WILL BE OPENED:	JUNE 16 <sup>TH</sup> , 2016 9:10AM
EEO:	Henderson County Government/Highway/Solid Waste/ Henderson County BOE reserves the right to reject any and all bids. Henderson County Government/Highway/Solid Waste/ Henderson County BOE is an equal opportunity employer. Henderson County Government/Highway/Solid Waste/ Henderson County BOE is prohibited from discrimination based on race, color, national origin, sex, age, or disability. Complaints regarding discrimination should be filed with Director, Office of Civil Rights, 1400 Independence Av S.W., Washington, DC 20250. <a href="http://www.hendersoncountyttn.com">www.hendersoncountyttn.com</a>

**Bid Specs  
For New  
Low-boy tractor**

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BID SPECS  
FOR NEW  
LOW-BOY TRACTOR

GENERAL

These specs should be considered as the minimum acceptable specs for a low boy tractor for Henderson County.

Should any manufacture's specs exceed these standards set by Henderson County, such specs and or bids will also be accepted. All integral parts not specifically mentioned in the scope of these specs that are necessary to provide a complete working unit shall be furnished.

The use of specific names or numbers in the specs is not intended to restrict the bidder or seller or manufacturer, but is solely for the purpose of indicating, size, or volumes of equipment best suited for the application in this bid.

Note all units offered for bid must be new and unused, to be no older than 3 model years old. The unit offered for bid must have no more than 5,000 miles on it.

BID PRICE

The price bid must include all destination charges, delivery charges, and all other applicable costs.

MANUALS

Operators and parts manuals to be included with the unit bid upon delivery.

REPLACEMENT PARTS

Replacement parts must be available for 5 years or 500,000 miles for the which is bid.

ASSEMBLY AND DELIVERY

The winning bidder to be responsible for delivery of the completed unit to the Henderson County Highway Department as a complete ready to use unit.

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## WARRANTY

Bidders to submit a copy of the manufacturer's standard warrant and options for purchase of extended warranties of the unit submitted for bid.

## ENGINE AND RELATED COMPONENTS

The engine to be of inline 6 cylinder design with a minimum of 13 liters of displacement, turbo charged diesel engine capable of producing a minimum 500HP and 1850 foot pounds of torque @1200rpm.

Engine to have fully replaceable wet sleeve design cylinder liners.

Air intake system may have a single or dual dry element with a restriction indicator.

Turbo air shall flow through a chassis mounted charge air cooler, engine cooling to be of heavy duty or extra capacity design.

Fan and accessory drive belt or belts must be serpentine design with automatic tensioners.

Exhaust may be single or dual vertical stack or stacks with heat shields.

Engine to have a factory installed integral Engine brake.

Engine electronics must have warning and shut down capabilities.

Engine cooling fan to air operated with automatic and manual capabilities.

Engine to have a compression brake.

## STARTING AND ELECTRICAL SYSTEM

Electrical system must be 12 volt negative ground and fuse and or circuit breaker protected.

Engine starter must be 12 volt gear reduction type.

Alternator must be 12 volt 130 amp minimum.

There shall be 3 batteries group 31 size maintenance free design with a minimum of 950 cold cranking amps at 0 degrees each. Batteries to be mounted in a single steel or aluminum batter box.

Battery system should have a remote mounted jump stud.

Unit must be equipped with a backup alarm.

## TRANSMISSION AND DRIVELINE

Transmission is to be a 10 speed manual, with overdrive, with air shift, with internal lube pump oil.

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Transmission clutch must be a 6-button disk mechanical pull-type 2 plate manual adjusting with 2050lb-ft rating or higher capacity.

Clutch housing to be heavy duty design with a minimum of 2050lb-ft rating.

Clutch must have lube fittings for cross shaft and release bearing.

Drive shaft yoke - universal joint type to be half round.

Transmission to have a oil pump and oil cooler.

#### FRONT AXLE, SUSPENSION, AND STEERING

Front axle to be wide track, I-beam type , with shock absorbers with a minimum of 14,000 capacity.

Front axle to be in a set forward position.

Steering to be power steering gear with oil remote cooler.

#### REAR AXLES AND SUSPENSION

Rear axles to be a single reduction type, with 40,000lb. Minimum capacity, with lube pump, with driver operated locking differential front and rear with warning light, with driver operated power divider with warning light, with 3.90-4.10 gear ratio.

Rear suspension to be Hendrickson HAS or equivalent with 40,000lb capacity minimum with shock absorbers.

#### BRAKES

Brakes system to be a dual air system for tractor application.

Brake air compressor to be a minimum of 18.7 cfm capacity, and a minimum of 2 air storage tanks.

Brake lines to be nylon color and size coded.

Brake hoses to have a hose tender mounted on or near the back of cab for storage while not in use.

Trailer hoses and cables to be 14' with a 7-way connector and 14" of straight hose at glad hands.

Brake glad hands 2 required 1 for service air, 1 for emergency.

Brakes shall have a low air warning light and audible alarm.

Brakes shall have a steering column mounted hand control valve.

Parking brake to have dual knobs (yellow for parking and red for trailer supply).

Brake system to have tractor protection valve.

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Slack adjusters to be automatic front and rear.

Brake air tanks must have drain valves on wet tanks.

Brakes to have dust shields on all wheels front and rear.

Front brakes to be 16.5"x5" Q+ type.

Front brakes to have a minimum type 24 chambers

Rear brakes to be 16.5"x7" Q+ type.

Rear brakes to have spring actuated parking brakes.

Rear brakes to have a minimum of type 30/30 chambers

All brakes to be "S" cam design.

Brakes drums to be quick change type.

#### CHASSIS AND FRAME

Frame to have 2 front mounted tow hooks.

Frame rails to be heat treated steel alloy with 120,000psi yield strength.

Frame rails to be tapered at the rear.

Wheel base to be 211"-220" in length.

Fifth wheel to have air operated slide, fifth wheel should have pinning feature for use with a dump trailer. Pins should be removable type for Multi - purpose use.

Fifth wheel to be centered on axle centerline.

Chassis to be equipped with a dual-purpose wet line system for use with a dump trailer or a detachable neck low boy trailer.

Chassis to be equipped with frame mounted quarter fenders mounted ahead of front pull axle and rear mud flaps mounted at end of frame on heavy duty spring loaded brackets

Chassis shall be black in color.

#### FUEL TANKS

1-2 Fuel tanks shall be 70-90 gallon capacity each, or an overall capacity of 140-180 gallons.

Fuel system to have dual supply and return fuel lines with equalizer line.

Fuel water separator with water in fuel sensor is required.

DEF tank with a minimum of 16 gallon capacity is required.

#### CAB INTERIOR/EXTERIOR

Cab to be of a conventional design.

Cab to have 2 air horns.

Cab to have all required marker lights.

Cab to have a 60-Inch Long Light bar with warning lights, work lights, stop lights, tail lights and turn signals (all lights to be LED). Light bar to be mounted to cab and have dash mounted controls.

Cab to have 2 grab handles, 1 for each side mounted rear of the drivers door.

Cab and be to white in color.

Cab interior to have 2 cup holders within the drivers reach.

Cab interior to have a dome light.

Cab interior to have overhead storage with 2-way radio/CB compartment.

Cab interior to have power supply for 2-way radio/CB accessories.

Cab to have 1 dual function antenna for CB/radio with splitter, mounted on left mirror.

Cab interior to have storage pockets on/in each door.

Cab to have a AM/FM radio with weather band, 3mm aux connection, and 4 speaker sound.

Cab to have drivers and passenger vinyl seats with back adjust ,high back design, and with air suspension.

Cab floor covering to be black rubber.

Cab to have a minimum of 2 courtesy lights.

Cab to have 2, 12 volt power sources.

Cab door panels to be vinyl.

Cab to have a padded headliner.

Cab to have tilt steering.

Cab instrument cluster to have oil pressure, water/coolant temperature, transmission oil temperature, engine oil temperature, fuel level, tachometer, speedometer with odometer, trip odometer, engine

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hours, dual air pressure gauges, suspension air pressure/load indicator gauge, pyrometer/ exhaust temperature, boost/manifold pressure, voltmeter, DEF level, and air filter restriction.

Cab seat belts to be 3 point. (lap/shoulder type)

Cab is to have a full heat and integrated air conditioning, and defrost HVAC system with dash mounted controls.

Cab is to have 2 sun visors (drivers/passenger).

Cab exterior rear view mirrors 2 required (drivers/passenger) to be rectangular at least 16"x7".

Cab and chassis to have LED stop, turn, tail, and back up lights.

Cab to have a stainless steel sunshade/visor with marker lights for windshield.

#### WHEELS/TIRES

Wheels to be 10 stud, 2 hand hole, 285.75mm BC, 24.5x8.25, hub-piloted, white in color.

Tires to be 11R24.5 radial with a 14 ply rating. No deep lug tires.

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