

**BID SPECIFICATIONS  
FOR  
3 CY WHEEL LOADER  
JOHN DEERE 544 K  
\$143,051.00 (INCLUDING OPTIONS) TIER 4**

**GENERAL**

These specifications shall be construed as the minimum acceptable standards for a 3-yard wheel loader. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The wheel loader must be a new current production model and shall meet all EPA and other applicable standards at the time of manufacturer.

The use of specific names and numbers in the specification is not intended to restrict the bidder or any seller or manufacturer, but is intended solely for the purpose of indicating the type, size and quality of equipment considered best adapted to the uses of counties participating in this joint bid.

**BID SUBMITTAL FORM**

Each bidder must submit his or her bid on the Bid Submittal Form included in the Invitation to Bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

**BID PRICE**

The bid price shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

**MANUALS**

Each unit shall be provided with one (1) copy of the operator's manual, one (1) copy of the repair manual and one (1) copy of the current parts manual. Units will not be accepted for delivery until the manuals as outlined above are received by the purchaser.

**REPLACEMENT PARTS AVAILABILITY**

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment bid. If replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can affect repairs on its machine.

**FILTERS**

The cost of all filters required to perform scheduled maintenance as outlined in the manufacturer's service schedule and to meet warranty requirements shall be included in the base bid price of the machine for the period of three years or 3600 hours. The filters shall be furnished with each machine purchased or at the option of the purchasing County may be picked up at the dealership as needed. Assume 1200 hours of annual use to determine filter requirements.

**WARRANTY** Bidders shall submit a copy of the manufacturer's standard warranty and a 3-year, 3600 hour power train warranty along with a complete explanation of the warranty with their bid. Warranty shall include service response time of maximum of 36 hours within notification by county. Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_  
or  
Attachment \_\_\_\_\_

**OPERATING HEIGHT**

Machine shall be no taller than 10' 9" from ground to top of cab, so that the machine can be hauled by a low boy drop trailer.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**DUMP CLEARANCE**

The wheel loader dump clearance shall be no less than 9' 4" at full height and 45 degree dump angle.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**STEERING**

The wheel loader shall have a 40 degree full turn articulation steering angle both right and left of center.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

The steering system shall be a full hydraulic type and shall perform independent of engine speed variations. The maximum turning radius at the outside of the bucket with a bolt on cutting edge shall be 20 ft.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OIL SAMPLES**

Oil sample analysis shall be provided, at no cost to the county, through the standard and extended warranty periods. Oil sample kits are to be provided and are to include a sample gun. Oil sampling ports shall be standard for quick and clean access to various machine oils (such as hydraulic, engine oil, transmission).

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OPERATOR STATION**

-Cab shall be designed and built by the loader manufacturer.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Cab shall be equipped with heater and air conditioner and AM/FM radio.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have cab option. Loader shall meet ROPS/FOPS regulations standard in North America.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have two-door access to machine; both doors locking open at 180°.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have sliding glass options, as well as electric rear window defroster.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have easy to read gauges and digital gear, direction and RPM readings.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have dual, suspended brake pedals that function as transmission neutralizer and brake.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have a standard hydraulic joystick which controls both lift and tilt functions. A remote transmission control switch on joystick is standard.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have adjustable, air suspension seat.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have retractable 3" seat belt.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**POWERTRAIN**

-Engine must have a minimum of six (6) cylinders and turbocharged.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Engine shall have thermal starting aid (not ether)

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-The loader shall be equipped with crankcase and powertrain guards.

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

-Engine shall have extended life coolant that protects to -33°F.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Drive shaft shall be lubed for life.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-All powertrain components shall be designed and built by loader manufacturer.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-The engine shall have a minimum net HP of 150 at 1800 RPM with a minimum displacement of 400 cubic inches.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-The engine shall meet all worldwide emission requirements and be Tier IV compliant.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Cooling system shall be separated from engine compartment.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have electronic module to control engine timing and monitoring of vital engine systems.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have fixed front and oscillating rear ( $\pm 11^\circ$ ) allowing for 18.9" of rear movement.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have fully enclosed, adjustment free oil-disc brakes.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have Duo-Cone seals between axle and housing.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Unit shall be equipped with 20.5 R25 L3 XHA tires.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Countershaft powershift transmission shall be designed and built by manufacturer. The loader shall have 4-forward/3 reverse with a minimum travel speed forward of 25 mph and reverse of 25 mph.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have computer-controlled modulation for smoother shifting.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Transmission shall have ratio spur gears that are precision ground and heat-treated.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have manual shifting as well as auto shifting options. Auto shift will have full throttle (aggressive operation) and variable shift (economy mode) options.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

### **INSTRUMENTATION**

-The wheel loader shall include the following gauges: hour meter, fuel, transmission or torque converter oil temperature and engine coolant temperature.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-The wheel loader shall also include the following indicator lights: battery charge, engine oil pressure, low coolant level, parking brake warning, and low brake pressure.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

### **ELECTRIC SYSTEM**

-The electrical system shall have a 95-amp alternator, (2) 950 CCA maintenance free batteries and 24-volt starting system.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-The unit shall be equipped with roading lights and halogen work lights, 4-front and 2-rear.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Unit shall be equipped with 12-volt converter to operate a two-way radio.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**HYDRAULIC SYSTEM:**

-Shall have a minimum flow of 40 gallons/minute.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Hydraulic system shall be an open-centered system with pilot-operated hydraulic controls.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-It shall be possible to add a valve section for additional functions.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**WORK TOOLS**

-Bucket shall be designed and built by the loader manufacturer.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Bucket shall be in 3.0 CYD capacity (with bolt-on cutting edges and teeth).

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**SERVICEABILITY**

-All daily service points shall be accessible from the ground level and shall have sight gauges for radiator coolant, hydraulic oil and transmission oil.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Loader shall have swing-out cooling fan for quick and easy access to the radiator and oil coolers.

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

-All filters shall be vertically mounted and spin-on for ease of service and to prevent spilling during service.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**GENERAL**

Unit shall be equipped with vandalism protection with locking service ports, cushioned steering stops, front fenders, toolbox, in addition to all other standard equipment.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OPERATING WEIGHT AND LIFT CAPACITIES**

-Unit shall weigh a minimum of 28,000 lbs with counterweight 3.0 cubic yard bucket and 20.5-25.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Straight static tipping load shall be a minimum of 20,000 lbs.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Full turn (40°) static tipping load shall be a minimum of 18,000 lbs.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

-Breakout force shall be a minimum of 24,000 lbs.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OWNING AND OPERATING COSTS**

-Recommended service shall have minimum: 500 hour engine oil change; 4000 hour hydraulic oil change; 1000 hour hydraulic filter change; 2000 hour transmission oil change.

Yes \_\_\_ No \_\_\_  
Page # \_\_\_\_\_

**OPTIONS**

Bid must include the cost for each of the following options, itemized separately on the bid:

-Integrated tool carrier (IT) weighing minimum of 28,500 lbs, with counterweight 3.0 cubic yard bucket and 20.5-25 tires, minimum straight static tipping load of 20,000 lbs., full turn static tipping load minimum of 17,500 lbs, and breakout force of 28,000 lbs. IT option shall have parallel design linkage, box boom type construction, that keeps the bucket floor or forks level throughout the entire lifting range and must have 4<sup>th</sup> valve installed.

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

-3.0 cubic yard bucket

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

-53" pallet forks

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

Limited slip differentials on the rear for use in slippery underfoot conditions

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

Additional 2 years of filters based on 1200 hours per year use

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

An extended power train warranty that covers an additional two (2) years or additional 2400 hours, whichever occurs first.

Yes \_\_\_ No \_\_\_

Page # \_\_\_\_\_

**NOTE:** Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the options as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.



## OPTION COST SHEET FOR 3 CY WHEEL LOADER- TIER 4

<u>Option</u>	<u>Option Price</u>
Integrated tool carrier as in bid specifications	<u>\$2,125.00</u>
3.0 cubic yard bucket	<u>\$ 3,903.00</u>
53" pallet forks	<u>\$1,951.00</u>
Limited slip differentials on the rear	<u>\$862.00</u>
Extended warranty	<u>\$1,504.00</u>
Additional 2 years of filters	<u>\$ 5,112.00</u>

**NOTE:** Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

# COUNTY JOINT BID PROGRAM PURCHASE PROCEDURES

Effective January 1, 2008

All purchases by counties pursuant to the County Joint Bid Program shall be made by (1) mailing or faxing the appropriate Purchase Order to the vendor who has been awarded the contract for the item to be ordered and (2) faxing a copy of the Purchase Order to the Association of County Commissions of Alabama (ACCA) office at 334-263-7678. Purchase Order Forms and all necessary information regarding the vendor and items available can be obtained at the ACCA website ([www.alabamacounties.org](http://www.alabamacounties.org)).

Each purchase order shall be signed by the person authorized by the county to sign and shall include the County Joint Bid Program Item Number. A copy of the form submitted shall be retained by the county.

The county shall deal directly with the company representative for the vendor in making purchases under this program. The vendor shall complete all orders in compliance with its agreement under the program, and shall deal directly with each county in processing and completing their orders and in complying with service and warranty requirements. Road sign vendors should keep in mind that they are required to deliver all items to the location identified by the county ordering them within thirty (30) calendar days from the date of order, and the cost of any items not delivered within this time period will be reduced in price by 10%.

It is important to remember that under Code of Alabama 1975, § 41-16-50(b), all purchases made pursuant to this program shall be subject to the terms and conditions of Alabama's Competitive Bid Law. Therefore, counties are only authorized to purchase the specific items awarded under the program according to the bid specifications and must comply with these procedures in placing all orders.

There can be no deletions or additions to items purchased under this program, except as specifically provided for in the bid specifications. Optional equipment authorized under the bid specifications on certain heavy equipment orders may be deleted by the county at the time of purchase, and in that event, the cost of that item as provided by the vendor shall be deducted from the total cost of the item.

**COUNTY JOINT BID PROGRAM  
HEAVY EQUIPMENT PURCHASE ORDER FORM  
3CY WHEEL LOADER- TIER 4**

*This form must be mailed or faxed to the Vendor with  
Copy faxed to the ACCA Office at 334-263-7678*

Date of Order: \_\_\_\_\_ County Purchase Order No. \_\_\_\_\_

County: \_\_\_\_\_ County Contact Person: \_\_\_\_\_

County Address: \_\_\_\_\_  
\_\_\_\_\_

County Phone Number: \_\_\_\_\_

County Fax Number: \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Equipment Model or Item Name and Number: John Deere 544 K

County Joint Bid Program Item Number: \_\_\_\_\_

Item Name and Number: \_\_\_\_\_

Number of items ordered: \_\_\_\_\_ Price per item: \_\_\_\_\_

Vendor: Warrior Tractor & Equipment Company Contact: David Patterson

Vendor address: 6801 McFarland Blvd West, P.O. Box 412  
Northport, AL 35476

Deliver to the Attention of: \_\_\_\_\_

Delivery Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Requested delivery date: \_\_\_\_\_

Name of person making purchase request: \_\_\_\_\_

Title: \_\_\_\_\_

Authorized County Signature: \_\_\_\_\_

Initial confirming form sent to vendor: \_\_\_\_\_

Initial confirming form sent to ACCA: \_\_\_\_\_