

DEKALB COUNTY HIGHWAY DEPARTMENT

WHEEL LOADER

Sealed proposals for the purchase of one (1) new 2017 or ([current year manufacture](#)) Wheel Loader will be received by the Highway Committee of the DeKalb County Board until 8:30AM, [Wednesday, March 1st, 2017](#), at the office of the DeKalb County Engineer, 1826 Barber Greene Road, DeKalb, Illinois, 60115 and at that time publicly opened and read.

The dealer may submit a bid for one or more models that are equal to or exceed the following specifications. A copy of the specifications or literature for each model should be included with each bid. Only bids from authorized dealers will be considered. Each bidder should state warranty coverage and estimated time of model availability. The dealer shall submit a total bid for furnishing a Wheel Loader as per specifications.

The Board reserves the right to reject any and all bids and to waive any technicalities.

The bids shall not include taxes for which we are exempt.

[One \(1\) 2005 Case 821C Wheel Loader will be traded in. The loader will be available for inspection at the DeKalb County Highway Garage located in Waterman, Illinois by appointment made through the DeKalb office @ \(815\) 756-9513.](#)

Total cost one (1) new Wheel Loader _____

[Trade allowance on
2005 Case 821C Wheel Loader](#) _____

Net cost one (1) new wheel loader _____

Proposal submitted by:

Name _____

Address _____

Signature _____

SPECIFICATIONS FOR WHEEL LOADER

4 Cubic Yard Capacity, Four Wheel Drive, Articulated Loader

GENERAL

The wheel loader to be furnished shall be new, current year manufacture. A used or demonstrator model will not be considered. The loader shall be diesel engine driven with four-wheel drive and articulated with 4.0 cubic yard bucket. Machine modifications to meet the operational and capacity requirements of this specification shall be limited to the manufacturer's published standard and optional equipment. All operating specifications are based on current SAE standards and shall be the basis for determining compliance with specified requirements. The loader shall meet all OSHA and EPA requirements in effect on the date of bid opening and shall be finished with lead free paint. ____ Yes ____ No

The loader shall have a minimum operating weight of 40,057 Lb. with a general purpose 4.0 cubic yd. bucket with bolt-on cutting edge pounds advertised SAE operating weight. ____ Yes ____ No

QUICK COUPLER

A.C.S. Pro 2000 Series quick coupler for bucket is to be **operated from operator's seat**. Compatible with current County attachments. ____ Yes ____ No

RIDE CONTROL

Unit shall be equipped with "ride control" ____ Yes ____ No

CAPACITY

The loader shall be equipped with a general purpose type bucket with Reversible bolt on cutting edge, with a minimum SAE heaped capacity of 4.0cubic yards. ____ Yes ____ No

Loader must meet SAE full turn tipping load requirements without hydro-inflation and Tipping load at full turn shall not be less than 24,100 pounds. ____ Yes ____ No

Include automatic return-to-dig and bucket self-leveling. ____ Yes ____ No

SAE breakout force-bucket: minimum #33,903 pounds. ____ Yes ____ No

Dump clearance of 9'7" with bolt on cutting edge is required at full height. ____ Yes ____ No

A minimum 45 degrees dump at full height is required. ____ Yes ____ No

ENGINE

EPA Tier IV Final, six cylinder, direct injected turbo charged, four cycle diesel engine with a minimum 206 net horsepower. ____ Yes ____ No

The engine shall be equipped with a dual-stage air cleaner with restriction warning lamp on instrument panel and automatic dust ejector. ____ Yes ____ No

Shall be equipped with engine block heater 110 volt. ____ Yes ____ No

Engine Coolant to be protected to -34 deg. Fahrenheit. Yes No

TRANSMISSION

The transmission shall be an integral unit and shall mount directly to the engine. Yes No

A four-speed forward and three-speed reverse, Automatic / full power shift transmission with full single stage torque converter shall be furnished. Yes No

Modular clutches in all ranges and forward/reverse are required for smooth shifting. Yes No

Minimum travel speed of 22.7 M.P.H. is required. Yes No

Transmission functions shall be selected through a single lever mounted on the steering column and F/N/R shuttle switch on loader joystick. Yes No

Auto shift / Manual shift switch. Yes No

Transmission disconnect switch for brake pedal. Yes No

AXLES AND DIFFERENTIALS

Planetary type axles. Yes No

Fixed front. Yes No

Oscillating rear. Yes No

Rear axle oscillation shall be a minimum of 24 degrees total. Yes No

Wheelbase shall be not less than 128 inches. Yes No

Auto Differential Lock Yes No

Dual Differential Lock Front and Rear Axles Yes No

BRAKES

Shall be full power, four-wheel wet disc type, hydraulic. Yes No

A second brake pedal. Yes No

A manually applied parking brake with warning device. Yes No

TIRES

23.5 x 25, 12 ply rating, L2 XTLA Michelin Radials tires. Yes No

ELECTRICAL SYSTEM

24 volt with 120 minimum amp alternator. _____ Yes _____ No

Two maintenance free Batteries. _____ Yes _____ No

Battery Master Switch. _____ Yes _____ No

Full LED Light Package. _____ Yes _____ No

Level one (1) Electrical Corrosion Package. _____ Yes _____ No

Strobe light: LED visible from top of cab and easily removable; must be approved by DeKalb Co. Hwy. Dept. _____ Yes _____ No

Total Height Clearance CANNOT exceed 11' 11" including strobe light. _____ Yes _____ No

Electric. Analog or LED gauges/warning lights for fuel level, alternator, engine oil pressure, hydraulic filter condition, hydraulic and transmission temperature are required.

A Central Continuous Monitoring / Warning System, audible and visual warning, shall be provided to indicate minimum of:

Low engine oil pressure

Low brake system pressure

High temperature of coolant

High temperature of transmission

High temperature of hydraulic oil

Parking brake applied/forward or reverse engaged

Low electrical voltage

Low fuel

Factory Installed Telematics (1 yr. Min.) _____ Yes _____ No

HYDRAULIC SYSTEM

Loader shall feature hydraulic lift lower dump rollback and float bucket shall have sufficient wrap-out to knock sticky material out of bucket. _____ Yes _____ No

Three-spool valve with two lever operating controls. _____ Yes _____ No

Third valve all plumbed attachment ready. _____ Yes _____ No

Double-acting cylinders with chrome-plated rods. _____ Yes _____ No

Automatic height control is to be furnished along with a system to automatically return the bucket to digging position and stop its descent before contacting the ground. _____ Yes _____ No

Shall be Variable Piston, Piston, Variable Axial-Piston Pump. _____ Yes _____ No

Relief system pressure. Yes No

A full flow, spin on 10-micron filter. Yes No

Pressurized hydraulic reservoir with sight gauge. Yes No

CAB

Unit shall have a fully enclosed pressurized steel Sound-Suppressed cab. Yes No

Rollover protection in accord with ROPS approved. Yes No

Heater/Defroster. Yes No

Air Conditioning. Yes No

Front and Rear windshield washer/wipers. Yes No

Dome light. Yes No

Floor mat. Yes No

Tinted safety glass. Yes No

Dual Inside and Outside rear view mirrors. Yes No

Operator's seat shall be fabric deluxe Air suspension type that is adjustable for operator height, weight, leg reach and back angle preference. Yes No

Adjustable Armrests. Yes No

Seat belt. Yes No

Cab to be mounted on rear articulated portion of loader. Yes No

Tilt steering column with steering knob on steering wheel. Yes No

Slip resistant steps and handholds. Yes No

12-volt auxiliary power point. Yes No

AM/FM radio. Yes No

FILTERS

One complete set of filters for machine service (air, oil, hydraulic, fuel, cab, etc.) Yes No

MANUALS

One each, operators, service and parts manuals,
shall be provided at time of delivery. Yes No

ADDITIONAL EQUIPMENT

Full Fenders Rooding front and rear. Yes No

Pre-wired for options (i.e., 2-way Radio). Yes No

Sun visor. Yes No

Transmission cooler. Yes No

Reverse warning alarm. Yes No

Hydraulic oil cooler. Yes No

Horn. Yes No

Vandal protection devices. Yes No

Tie down brackets. Yes No

Key ignition switch w/safety start. Yes No

Foot throttle. Yes No

Fixed drawbar/Recovery hitch. Yes No

Full counterweight. Yes No

Hinged, lockable engine side shields. Yes No

SMV emblem. Yes No

Articulation locking bar and pin. Yes No

Lockable cab doors-all locks shall be keyed the same. Yes No

Back-up/Rearview camera with color display monitor for safety. Yes No

WARRANTY

The successful bidder and the loader manufacturer are required to provide limited warranty for a period of Five (5) years or 2000 operating hours,
Which ever occurs first from date of delivery. Yes No

REPAIR PARTS AND SERVICE

Since the continuous operation of this loader is of the utmost importance and sometimes of an emergency nature, it is necessary the successful bidder be in position to render prompt parts and service. Said parts inventory shall be of sufficient size and variety to offer a level of parts availability of 95% within 48 hours from time of order by the customer. Availability of normal maintenance items such as filters, Vee belts, hydraulic lines, and hoses shall not exceed 24 hours. Bidder shall attach his proposed program for parts and service availability for evaluation. Review of the bidder's ability to provide prompt parts and service will be used in determining low, qualified bidder.

To all bidders:

Please list the following information and submit with your bid:

Loader Make _____

Loader Model _____

Engine Model _____

Engine Horsepower (Net) _____

If awarded the contract, the successful bidder shall provide delivery of the machine within **90 days** from award of contract.

Bidder: _____

Signed: _____

Address: _____

Phone: _____

Please list any exceptions to bid specifications: