

**NOTICE FOR SEALED BIDS
DIESEL POWERED, ARTICULATED WHEEL LOADER**

The Board of County Commissioners of McKenzie County, North Dakota, will receive bids at the County Auditor's Office at 201 5th ST NW Suite 543, Watford City, North Dakota, until the hour of 10:00 AM CT, February 21, 2019, for one (1) diesel powered, articulated wheel loader for the Road Department.

Bids will be submitted on the specification form furnished by the Auditor's Office, and will be available on the County's website: <http://county.mckenziecounty.net>, under Quick Links/Current Bid Notices. A Bid Bond in the amount of 5% (five) percent of the amount bid must accompany each bid in a separate envelope. Please specify "Loader" on the envelope.

The Board reserves the right to reject any or all bids as allowed by law, or to accept such bids as may be determined to be in the best interests of the county.

McKenzie County does not discriminate on the basis of race, color, national origin, sex, religion, age or disability in its solicitation of bids.

Dated at Watford City, North Dakota, this 29th day of January 2019.



A handwritten signature in blue ink, appearing to read "Erica Johnsrud".

Erica Johnsrud
McKenzie County Auditor/Treasurer

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**MCKENZIE COUNTY
ROAD DEPARTMENT
WATFORD CITY, NORTH DAKOTA**

**SPECIFICATIONS FOR ONE
2019 DIESEL POWERED, ARTICULATED WHEEL LOADER**

This attachment shall be considered a continuation of the call for bids, and by reference made a part thereof.

The Board of County Commissioners reserves the right to reject any or all bids as allowed by law, or to accept such bids as determined to be in the best interests of the County.

BASIS OF THE AWARD shall be dependent on the most responsible bid submitted. Consideration will be given to purchase price, repurchase price, delivery date, equipment service guarantees, parts and service availability, parts and service facilities location, analysis and comparison of equipment specification details.

No bid will be accepted without a Seven (7) year or seven thousand five hundred (7500) hour total machine warranty.

Pursuant to the call for bids, the following minimum requirements shall be met:

- A. Wheel Loader shall meet OSHA requirements and specifications on the date of the bid opening.
- B. No bid will be considered unless accompanied by a bid bond, in the amount of not less than five percent (5) of the total amount of the bid.
- C. Delivery shall be F.O.B. to the McKenzie County Shop, Watford City, North Dakota.
- D. The bid shall include all operating, service, parts, and technical repair manuals (paper (and CD)
- E. Bidders must specify delivery date.
- F. Wheel Loader shall be 2019 new current production model with all the latest changes and features offered as standard whether or not called for in the specifications; except where this specification requires a substitution in lieu of the manufacturer's standard equipment.
- G. Bids will not be considered that do not include a copy of the manufacturer's literature/specification material or an incomplete specification portion of the bid sheets.

H. Wheel Loader shall come with all hydraulics, electronics, controls, etc. to fully operate all functions stated or asked for in bid.

Bids will not be considered that do not include a **GUARANTEED REPURCHASE AGREEMENT** for the years 2 through 5.

Please indicate in the following if the machine offered can meet the desired configuration. Any “no” should be clarified on a separate sheet if the bidder desires support for an alternate specification. Failure to do so may result in non-acceptance of the bid.

YES NO

___ ___ a. Minimum operating weight no less than 43,500 lbs.

ENGINE

___ ___ a. Minimum displacement of 9.0 L (548 cu.inch)
Manufacturer _____.

___ ___ b. **Four stroke, six cylinder, direct injection, water cooled, turbo charged diesel engine.** High pressure common rail fuel system. Must have wet sleeve cylinder liners.

___ ___ c. Low temperature starting system.

___ ___ d. Ether starting aid.

___ ___ e. Block heater, 120 volt.

___ ___ f. Starter protection system.

___ ___ g. 105 gallon fuel capacity, minimum

___ ___ h. Centrifugal engine air precleaner.

___ ___ i. Dry-type air cleaner with pre-cleaner, automatic dust ejector and air Cleaner.

___ ___ j. Anti-freeze -35 degrees (Fahrenheit), minimum.

___ ___ k. Oil filter, cartridge.

Engine cont.

YES NO

- l. EPA Final Tier 4/EU Stage IV emissions compliant.
- m. Engine horsepower shall be minimum of 264 hp net peak power @ 1800 RPM
856 lb.-ft net peak torque @ 1,300 RPM. Minimum 61% net torque rise.
- n. Engine enclosures (side panels).
- o. Unit must have programmable auto-idle and auto shutdown and selectable idle
adjustment from 900-1,250 RPM.
- p. Automatic engine cool-down.
- q. Standard engine compartment work light.
- r. Automatic derating for exceeded system temperatures.
- s. All coolers must **not** be stacked for ease of cleanout.

TRANSMISSION

- a. Countershaft-type Powershift transmission.
- b. Minimum 5 speeds forward and 3 speeds reverse. Unit must have automatic
Lock-up torque convertor.
- c. Unit shall have joystick mounted F-N-R and gear-select lever, manual or
automatic. Selectable kick-down or kick-up settings.
- d. Separate transmission oil cooler.
- e. Transmission filter, (cartridge type) and magnet screen.
- f. Auto-shift gears 2-4 with quick kick down.
- g. Max speed must be at least 24.9 mph.
- h. Shift control must be electronically modulated, adaptive, load and speed
dependent.
- i. Unit must have wheel spin control to minimize tire wear.
- j. Clutch calibration must be achieved by simply using the machine monitor.

BRAKES, AXLES, AND TIRES

YES NO

- ___ ___ a. Full hydraulic enclosed wet disc brakes adjustment free.
- ___ ___ b. Parking brake automatic spring applied, hydraulically released, oil cooled, multi disc..
- ___ ___ c. Service brakes hydraulically actuated, inboard, sun gear mounted, oil cooled, self adjusting, multi disc.
- ___ ___ d. 23.5R25 XHA2 Michelin L3 1 star tires on 3-piece rims.
- ___ ___ e. Heavy-duty, inboard mounted planetary final drives.
- ___ ___ f. Front axle fixed, **greaseless** rear axle oscillation 26 degrees stop to stop.
- ___ ___ g. Hydraulic steering.
- ___ ___ h. Minimum of 18' 6" turning radius (centerline of outside tire).
- ___ ___ i. Minimum 18" ground clearance.

ARTICULATION JOINT

- ___ ___ a. Mechanical lock.
- ___ ___ b. Greaseless steering cylinder joint.
- ___ ___ c. Minimum 40 degree frame angle each direction.

HYDRAULICS

- ___ ___ a. Full hydraulic controls.
- ___ ___ b. Hydraulic system closed center w/ pilot operated controls.
- ___ ___ c. Non-vented hydraulic tank.
- ___ ___ d. Cartridge type full flow hydraulic filter.
- ___ ___ e. Two function joystick controls with 1 extra auxiliary valve.
- ___ ___ f. Dump clearance at full lift 45 degrees 9'6" with 4.75 yd coupler bucket.

Hydraulics cont.

- g. Static tipping load straight minimum with coupler 33,000 lbs.min.
- h. Breakout force with quick coupler bucket 32,000 lbs. min.
- i. Cycle time raise 6.4 seconds, dump 1.4 seconds.
- j. Ride control, automatic with monitor adjustable speed settings.
- k. Hydraulic control system for quick-coupler locking pins.
- l. Automatic return to dig.
- m. In cab adjustable automatic boom-height kickout and return to carry.

OPERATOR COMPARTMENT

YES NO

- a. "ROPS" quiet cab with heater and air conditioning.
- b. Heated outside rear view mirrors, inside rear view mirror.
- c. Doors latch open and lock shut.
- d. Seat, air suspension/heated, deluxe cloth covered.
- e. Wet-arm wipers and washers. Front and rear.
- f. Adjustable control console.
- g. Sound suppressed pressurized cab.
- h. Heater, defroster, air conditioner.
- i. AM/FM/XM/BLUETOOTH weather band radio.
- j. Sun Visor

ELECTRIC SYSTEM AND LIGHTS

YES NO

- a. 24 volt system.
- b. Heavy duty batteries/high capacity, 950CCA each.
- c. Driving lights with guards.
- d. LED stop, tail, directional lights, front and rear.
- e. Front and rear mounted work lights.
- f. Machine bid must have all lights factory available.
- g. Interior cab lights.
- h. Cab to be “radio ready” for 12 volt county radio system (minimum 30 amp converter).
- i. Electric horn and automatic back-up alarm.
- j. Minimum.30 amp alternator
- k. Dual amber strobe light installed.
- l. Lockable master electrical disconnect switch.
- m. Solid-state electrical power distribution system.
- n. Integrated cycle counter with 5 categories.
- o. Built in diagnostics. Diagnostic code details, sensor values, calibrations, all available to the operator.

LOADER

- a. 4.75 yard general purpose bucket to fit a JRB 418 series quick coupler. Coupler, bucket and forks must be compatible with Counties existing loaders.
- b. H.D. bolt on cutting edges.
- c. Hydraulic quick coupler. JRB 418 series quick coupler.
- d. Loader linkage must be Z-Bar design.
- e. Machine must be Loadrite weighing system ready.

Loader cont.

- ___ ___ f. Grabtec brand HD grapple must be included and factory installed. GA series with 5 tines. Stucchi valve for ease of hyd. connection included.
- ___ ___ g. JRB brand, 15' manual extendable jib boom must be included to fit a JRB 418 series quick coupler.

INSTRUMENTATION

- ___ ___ a. Gauges for engine coolant temperature, fuel, transmission oil temp. voltmeter, and engine oil pressure.
- ___ ___ b. Visual sight gauges for hydraulic reservoir level, radiator level, and Transmission fluid level.
- ___ ___ c. Hour meter.
- ___ ___ d. Tachometer.
- ___ ___ e. Audible and visual warnings for engine oil, brake pressure, coolant and transmission oil temperatures.
- ___ ___ f. Wireless machine monitoring system shall be standard to provide real-time diagnostics via satellite signal. This subscription must be at no charge for 5 yrs.
- ___ ___ g. All electrical switches must be grouped in a sealed switch module with function indicators.
- ___ ___ h. Unit must have a keyless start system with multiple security modes.

DIFFERENTIAL

- ___ ___ a. **Dual locking front and rear differentials.** Must be able to actuate while spinning w/out damaging system. Differential lock must be automatically locking. Must engage on its own when slippage is detected (auto diff lock).
- ___ ___ b. Axle coolers must be standard

FRAME/OTHER

- ___ ___ a. Lift/tie down eyes.

___ ___ b. **Full coverage** front fenders with mud flaps.
Frame/other cont.

___ ___ c. Drawbar, with locking pin.

___ ___ d. Vandal protection package.

___ ___ e. Bottom guards and transmission guards.

___ ___ f. Fuel fired coolant heater dealer installed with automatic timer
installed in cab. Also power cut-off installed in battery box.

LIST EXPLANATIONS FOR ANY NO ANSWERS:

BIDDERS CERTIFICATION

It is hereby understood that McKenzie County (owner) has the right to evaluate this bid upon many bases of criteria, based on what is in the best interest of McKenzie County.

The County Commissioners reserve the right to hold the bids for a period of not to exceed 30 days.

Upon acceptance of any bid, the McKenzie County Road Department shall withhold five percent (5%) of the bidder's net bid for at least thirty days after the delivery of said bid item to insure compliance with all agreed upon specifications.

We hereby certify that the foregoing is a responsible bid. Any variations from the specifications are noted or attached. Copies of machine warranty guarantees are attached along with the required bid bond for the machine bid.

Dated this _____ day of _____, 2019.

Dealer Name

Representative Signature

Telephone

Address

Fax Number

City, State, Zip Code

MACHINE WARRANTY & AVAILABILITY GUARANTEE

The intent of this clause is to guarantee the cost of repairs and downtime to McKenzie County. Therefore, all bidders shall include with their bid:

Machine must have a seven (7) year or seven thousand five hundred (7,500) hour full warranty, whichever occurs first from date of delivery. This warranty is to include travel time and mileage. The only exclusions are to be wear items such as tires, cutting edges, glass, etc.

Annual machine inspection and adjustments as prescribed in the maintenance guides shall be performed in the field, unless convenient prior arrangements are made, and all costs covered by the **dealer**.

Warranty related machine transport costs to the repair facility or travel time and mileage will be provided by the dealer for 7 years or 7,500 hours.

Ninety-five percent (95%) guaranteed machine availability (computed on a 2000 hour work year). After any continuous downtime greater than 40 work week hours, a free replacement comparable machine shall be provided or an hourly assessment of \$70 per hour shall be charged to the dealer to cover a replacement rental machine. \$300 per day shall be charged the dealer at the anniversary date for downtime in excess of 5%.

McKenzie County will make the machine available for repairs and inspections as requested by the successful dealer.

BID PROPOSAL

Manufacturer _____

Model _____

PURCHASE WITH TRADE

Net purchase price, **one** unit, no trade \$ _____

Trade-in allowance for one (1)
2011 John Deere 644K Loader Serial # 634037 \$ _____

Net purchase price with trade (to boot price). \$ _____

Delivery date _____

GUARANTEED RE-PURCHASE PRICE (per unit).
Based on 1,000 hours per year

Year #2 _____

Year #3 _____

Year #4 _____

Year #5 _____

