

**POWDER RIVER COUNTY**

**ROAD DEPARTMENT**

**119 N Park Ave**

**BROADUS, MONTANA 59317**

**Notice is hereby given;** the Board of County Commissioners of Powder River County, Montana, will receive sealed bids for the following equipment. All sealed bids will be due on or before 15th day of November, 2024 at 5 o'clock PM AM/PM, in the Clerk and Recorder's Office at the Powder River County Courthouse at 119 N. Park Ave, Broadus, MT.

Bid opening will be on November 18, 2024 at 9:00 AM in the Commissioner's office at 119 N Park Ave, Broadus, MT

**Diesel Powered, Articulated Frame Motor Grader:**

**John Deere 772**

**CAT 150**

**Or Equivalent**

A detailed list of specifications may be obtained by contacting the Clerk and Records Office at the Powder River County Courthouse or the Powder River County Road Department.

Powder River County does not discriminate on the basis of disability in admission to, access to, or operations of its programs, services, or activities. Alternative accessible formats of this notice are available upon request from the above offices.

No bid will be considered unless accompanied by a bid bond, in the amount of not less than ten (10) percent of the total bid. Bid will be presented in a sealed envelope containing a complete copy of the bid and bid document specifications and clearly marked "Motor Grader".

The Board of County Commissioners reserve the right to reject any or all bids, to waive irregularities, or to accept any bid they deem to be in the best interest of Powder River County.

Dated this 17 of October, 2024

Cyndee Gatten  
Clerk and Recorder

October  
Published 24 and 31 2024  
+ November 7, 2024



**BID PROPOSAL**

Manufacturer \_\_\_\_\_ Model \_\_\_\_\_

**PURCHASE ONLY**

Purchase Price per Unit; No Trade (Including Warranty Costs), \$ \_\_\_\_\_

F.O.B Powder River as Per Spec \_\_\_\_\_

**Trade in Value - NO TRADE**

<u>Make</u>	<u>Model</u>	<u>Year</u>	<u>Serial #</u>	<u>Value</u>
				\$

**GUARANTEED REPURCHASE PRICE PER MACHINE**

Year #3 \$ \_\_\_\_\_

Year #4 \$ \_\_\_\_\_

Year #5 \$ \_\_\_\_\_

Year #6 \$ \_\_\_\_\_

Year #7 \$ \_\_\_\_\_

Proposed Delivery Date: \_\_\_\_\_

## CALL FOR BIDS — SPECIFICATIONS

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

The intent of the following format is to provide the governing body with the cost data necessary to determine their options for acquiring one new motor grader. The trade offered can be examined at its present worksite.

Basis of the Award shall be dependent on the most responsible bid submitted. Consideration will be given to cash flow, purchase price, delivery date, equipment service guarantees, parts and service availability, parts and service facilities location, analyses and comparison of equipment specification details and past experience of Powder River County with similar or related equipment.

Bidder shall clearly describe warranty guarantees and extended coverages of the machine for a period of seven (7) years or seven thousand (7000) hours.

Pursuant to the call for bids for one new diesel powered, articulated, tandem drive all-wheel drive motor graders the following minimum requirements shall be met:

- A** Motor Grader shall meet OSHA requirements and specifications on the date of the bid opening. All engines shall be Tier IV Final compliant. Machine shall be new with hour meter reading less than thirty five hours.
- B** No bid will be considered unless accompanied by a bid bond, bank draft, money order, certified or cashier's check in the amount of not less than ten (10) percent of the total bid price for the total number of machines bid.
- C** Bid should include delivery fee to the Powder River County Road Department.
- D** Bidders must specify delivery date.
- E** The bid shall include all operating, service, parts, and technical repair manuals in paper copy. Electronic manuals shall be capable of download onto a PC or laptop computer.
- F** All machines shall be current advertised and produced 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 and an incomplete specification portion of the bid document
- H** Motor graders shall come with all hydraulics, electronics, controls, etc. to fully operate all functions stated or requested for in bid.
- I.** Bids will not be considered that do not include a Guaranteed Repurchase Price - Per Machine Agreement for the years 3 through 7.
- J.** For safety considerations, successful bidder shall provide instruction by a manufacturer certified instructor. Individual shall provide instruction for minimum of four (4) hours to county personnel to familiarize themselves with the operational and maintenance characteristics of the machine. Training shall include the following as a minimum:
  - A.** Familiarization of the basic chassis, attachments and controls.
  - B.** Daily operational checks, start up and shutdown procedures.

- C. Vehicle operation - Classroom overview and hands on training.
- D. Safe operating practices and procedures.

Please indicate in the following if the machine offered can meet the desired configuration. Any "no" must be clarified on a separate sheet if the bidder desires support for an alternate specification.

## **MOTOR GRADER**

### **BASIC SPECIFICATIONS**

- Y\_\_\_ N\_\_\_ a. Machine shall be designed and built by the manufacturer.
- Y\_\_\_ N\_\_\_ b. Typical operating weight no less than 45,000 lbs.
- Y\_\_\_ N\_\_\_ c. Engine and Transmission must be designed and built by machines manufacturer.

### **ENGINE**

- Y\_\_\_ N\_\_\_ a. Engine shall be certified EPA Tier 4 Final and European Union Stage IV.
- Y\_\_\_ N\_\_\_ b. Four stroke, six cylinder, direct injection, water cooled, turbo charged diesel engine.
- Y\_\_\_ N\_\_\_ c. Minimum engine displacement not less than 9.0L (568 in3) Manufacturer .
- Y\_\_\_ N\_\_\_ d. Engine shall have variable horsepower starting in 1st with a net HP of 221 and ending in 8th gear with a HP of 265 or greater.
- Y\_\_\_ N\_\_\_ e. Cooling on demand, hydraulic-driven, variable speed fan with swing out rear fan door.
- Y\_\_\_ N\_\_\_ f. Anti-freeze -35 degrees (Fahrenheit), extended life.
- Y\_\_\_ N\_\_\_ g. Low temperature starting system with ether starting aid.
- Y\_\_\_ N\_\_\_ h. Engine block heater, 120 volt.
- Y\_\_\_ N\_\_\_ i. Dry-type air cleaner with pre-cleaner, automatic dust ejector and air cleaner, cyclone pre-cleaner.
- Y\_\_\_ N\_\_\_ j. Engine will automatically increase idle speed to compensate for any voltage drop resulting from an extended idle time.
- Y\_\_\_ N\_\_\_ k. Engine shall automatically lower engine torque and alert the operator if critical conditions are detected.
- Y\_\_\_ N\_\_\_ L. Oil and fuel cartridge type filters.
- Y\_\_\_ N\_\_\_ m. Engine compartment doors shall be lockable without the use of external locks.
- Y\_\_\_ N\_\_\_ n. DEF tank reservoir shall have a heater to thaw DEF fluid.
- Y\_\_\_ N\_\_\_ o. DEF lines shall be heated to prevent freezing during extremely cold ambient conditions.

## **POWERTRAIN/TRANSMISSION**

- Y\_\_\_ N\_\_\_ a. Transmission shall be a direct drive, power shift, countershaft type.
- Y\_\_\_ N\_\_\_ b. Transmission shall have no less than 8 forward speeds and 6 reverse speeds.
- Y\_\_\_ N\_\_\_ c. Transmission shall have auto-shift capabilities on all forward and reverse gears.
- Y\_\_\_ N\_\_\_ d. Transmission filter, cartridge.
- Y\_\_\_ N\_\_\_ e. Electronically controlled over speed protection.
- Y\_\_\_ N\_\_\_ f. Minimum top speed 28 mph or greater.
- Y\_\_\_ N\_\_\_ g. Automatic Differential Lock/Unlock feature shall be included and not have speed, shuttle shifting or tandem spinning restrictions for engaging/disengaging. System must be load sensing.
- Y\_\_\_ N\_\_\_ h. Differential Lock/Unlock shall be a multi-disc design.
- Y\_\_\_ N\_\_\_ i. Differential Lock/Unlock shall be electro-hydraulically controlled.
- Y\_\_\_ N\_\_\_ j. Final drive shall be a planetary design.
- Y\_\_\_ N\_\_\_ k. Machine shall be equipped with 6WD and an electronic inching pedal for improved modulation and machine control.

## **STEERING, FRONT AXLE, ARTICULATION JOINT, TANDEMS**

- Y\_\_\_ N\_\_\_ a. Steering capabilities shall be ISO 5010:1992.
- Y\_\_\_ N\_\_\_ b. Machine must have a steering wheel/joysticks.
- Y\_\_\_ N\_\_\_ c. Front wheels shall have 50 degrees left or right minimum steering range.
- Y\_\_\_ N\_\_\_ d. 25'7" ft. maximum turning radius outside front tires.
- Y\_\_\_ N\_\_\_ e. Front axle, height to center not less than 22.5 inches ground clearance.
- Y\_\_\_ N\_\_\_ f. Hydraulic leaning front axle minimum 18 degrees right or left.
- Y\_\_\_ N\_\_\_ g. Front axle shall have not less than 32 degrees total oscillation, 16 degrees up, and 16 degrees down.
- Y\_\_\_ N\_\_\_ h. Main frame shall be articulated.
- Y\_\_\_ N\_\_\_ i. Frame angle to be minimum of 20 degrees.
- Y\_\_\_ N\_\_\_ j. Articulation joint with mechanical lock.
- Y\_\_\_ N\_\_\_ k. Tandems shall be capable of oscillating 15 degrees front tandem up and 15 degrees front tandem down, with full machine articulation and having no interference between tandem wheel and machine structure.
- Y\_\_\_ N\_\_\_ L. Articulation indicator in operator station

## **BRAKES**

- Y\_\_\_ N\_\_\_ a. Machine shall have primary and secondary service brakes. Entire braking system shall meet all requirements of ISO 3450: 1996.
- Y\_\_\_ N\_\_\_ b. Brakes shall be continuously pressurized, filtered, multi disk oil cooled and sealed.
- Y\_\_\_ N\_\_\_ c. Machine shall have foot-controlled, hydraulically operated, multiple wet-disc brakes sealed in pressurized, cooled, filtered oil effective on all four tandem wheels.
- Y\_\_\_ N\_\_\_ d. Parking brake shall be multi-disc, oil-cooled, spring-applied, hydraulically released, sealed, adjustment-free and integrated into the transmission.
- Y\_\_\_ N\_\_\_ e. Parking brake shall be serviceable without removing the transmission.
- Y\_\_\_ N\_\_\_ f. Brake line protection, including tandem walkways and hydraulic brake line guarding, shall be required to prevent line damage.

## **HYDRAULIC SYSTEM**

- Y\_\_\_ N\_\_\_ a. Hydraulic implement pump shall produce between 0 and 55.7 gallon/min of oil flow at 1800 rpm.
- Y\_\_\_ N\_\_\_ b. Hydraulic system pressure shall be no less than 3,500 psi.
- Y\_\_\_ N\_\_\_ c. Hydraulic stand-by pressure shall be no more than 885 psi.
- Y\_\_\_ N\_\_\_ d. Hydraulic tank shall be non-vented, separate of power train oil.
- Y\_\_\_ N\_\_\_ e. Implement valves shall be designed and built by the machine manufacturer.
- Y\_\_\_ N\_\_\_ f. Implement valves shall be proportional priority pressure compensating for consistent response when multi-functioning any combination of implement controls and independent of engine speed.
- Y\_\_\_ N\_\_\_ g. Lock valves shall be integrated into the main implement valve to prevent cylinder drift.
- Y\_\_\_ N\_\_\_ h. Must have additional valves and controls to operate ripper, front hitch, and snow wing. (4 aux. valves).
- Y\_\_\_ N\_\_\_ i. All blade controls obtainable from operator's seat.
- Y\_\_\_ N\_\_\_ j. Sight gauge for checking hydraulic reservoir fluid.
- Y\_\_\_ N\_\_\_ k. Hydraulic plumbing, etc. which is compatible with front lift groups, rear rippers, snow wing, etc. Plumbing shall include a set of rear auxiliary lines, routed to ripper area.
- Y\_\_\_ N\_\_\_ l. Float position on blade lift, front lift group, and snow wing hydraulics.

## **MOLDBOARD, CIRCLE & DRAWBAR**

- Y\_\_\_ N\_\_\_ a. 14' x 27" x 1" moldboard with 5/8" or 3/4" mounting hardware.
- Y\_\_\_ N\_\_\_ b. Premium Circle with Integrated Slip Clutch - Fully sealed and lubricated roller element slewing bearing. No adjustment; fully sealed and lubricated.
- Y\_\_\_ N\_\_\_ c. 4000 Hour Circle Gearbox Service Interval
- Y\_\_\_ N\_\_\_ d. 500 Hour Circle Greasing Interval

Y\_\_\_ N\_\_\_ e. Circle has no shims, no wear inserts, and no jack screws to maintain adjustment

Y\_\_\_ N\_\_\_ f. Moldboard wear strips shall be adjusted with jack screws, providing shim-less adjustment capability both vertical & horizontal.

Y\_\_\_ N\_\_\_ g. Blade Lift Protection and Blade Float

Y\_\_\_ N\_\_\_ h. Impact Absorption System - Accumulators for protection from upward forces to blade

### **TIRES AND RIMS**

Y\_\_\_ N\_\_\_ a. 14 in by 25 in size 3-piece tire rim shall be available to provide mounting for 17.5R25 tires.

Y\_\_\_ N\_\_\_ b. 17.5R25 Michelin X-Sno-Plus tires shall be included.

Y\_\_\_ N\_\_\_ c. One Spare tire and rim to be provided

### **OPERATORS STATION**

Y\_\_\_ N\_\_\_ a. ROPS cab with heater, defroster, and air conditioning. Heater 42,000 BTU N

Y\_\_\_ N\_\_\_ b. Glass rubber mounted, laminated safety tinted- front, rear and doors.

Y\_\_\_ N\_\_\_ c. Exterior heated convex mirrors

Y\_\_\_ N\_\_\_ d. Doors lock shut and latch open.

Y\_\_\_ N\_\_\_ e. Heated, air-ride adjustable suspension, vinyl or cloth seat with seat belt & arm rest.

Y\_\_\_ N\_\_\_ f. A rear sunshade shall be included.

Y\_\_\_ N\_\_\_ g. Electric wiper/washer front, rear, and side with intermittent control.

Y\_\_\_ N\_\_\_ h. AM-FM weather band radio with speakers, antenna, blue tooth.

Y\_\_\_ N\_\_\_ i. Cab shall be sound suppressed and pressurized with a filter. 71DB (A) maximum.

Y\_\_\_ N\_\_\_ j. Rear defroster fan.

Y\_\_\_ N\_\_\_ k. Lunch box storage, mug holder, and coat hook.

Y\_\_\_ N\_\_\_ l. High-resolution rearview camera with dedicated monitor

Y\_\_\_ N\_\_\_ m. Left and right-side cab doors shall be standard.

Y\_\_\_ N\_\_\_ n. Operator cab fresh air-filter shall be accessible for clean out and replacement, from outside of the cab at ground level.

### **ELECTRICAL**

Y\_\_\_ N\_\_\_ a. Starting system 24V direct electric type.

Y\_\_\_ N\_\_\_ b. Heavy Duty 220-amp hour, 1400 CCA batteries.

Y\_\_\_ N\_\_\_ c. 150 Amp alternator.

Y\_\_\_ N\_\_\_ d. Machine lighting package for snow removal applications shall be included providing coverage for heel, mid-frame toe, front cab, ripper and snow wing.

Y\_\_\_ N\_\_\_ e. A 24V to 12V converter with 25-amp capacity shall be included.



Y\_\_\_ N\_\_\_ f. An instrument cluster shall be provided that includes a speedometer, tachometer, coolant temperature, fuel and articulation angle gauge.

Y\_\_\_ N\_\_\_ g. An amber LED high-speed strobe beacon shall be included.

Y\_\_\_ N\_\_\_ h. Electrical system shall have a master disconnect switch, accessible from the ground level.

Y\_\_\_ N\_\_\_ i. High bar headlights with front turn signals shall be included.

Y\_\_\_ N\_\_\_ j. LED white reversing lamps and LED stop lamps.

Y\_\_\_ N\_\_\_ k. Back-up light and sounding alarm standard when reverse gears are selected.

Y\_\_\_ N\_\_\_ l. Interior cab lights and engine compartment service light.

Y\_\_\_ N\_\_\_ m. Power must remain available upon key off to purge DEF system lines and protect components.

Y\_\_\_ N\_\_\_ n. Electronic throttle control- cruise control.

Y\_\_\_ N\_\_\_ o. Electronic inching control.

### **ADDITIONAL FEATURES**

Y\_\_\_ N\_\_\_ a. Rear ripper shall have 5 ripper shank holders and 9 scarifier shank holder.

Y\_\_\_ N\_\_\_ b. Balderson style lift group included.

Y\_\_\_ N\_\_\_ c. A snow wing and frame shall be included.

Y\_\_\_ N\_\_\_ d. Front fenders shall be included.

Y\_\_\_ N\_\_\_ e. Rear fenders shall meet ISO-3457 requirements and shall not interfere with the ability to fully open any cab/engine enclosure or service access doors shall be included.

Y\_\_\_ N\_\_\_ f. Initial set of wet filters for first service interval describe in maintenance guide. For all wet filtered compartments.

Y\_\_\_ N\_\_\_ g. Successful bidder shall provide instruction by a manufacturer certified instructor. Individual shall provide instruction on familiarization of the basic chassis, attachments and controls. Individual shall provide instruction on daily operational checks along with start-up and shutdown procedures. Individual shall provide instruction including hands on and classroom training on machine operations along with safe operating practices and procedures. Instruction to be performed in a timely manner from date of delivery.

Y\_\_\_ N\_\_\_ g. A toolbox shall be provided.

List explanations for any "no" answers below if consideration is desired

## **MACHINE WARRANTY & AVAILABILITY GUARANTEE**

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

Machine's bid must have a 12-month, full standard warranty. An extended full machine warranty for seven (7) years or seven thousand (7000) hours of operation, whichever occurs first from date of delivery shall also be included. This warranty is to include (by the dealer) travel time, mileage, parts freight, consumable items, deductibles, and machine replacement costs.

The only exclusions are to be wear items such as tires, cutting edges, wear slides, glass, etc.

Owner to provide oil sampling at scheduled intervals at owner's expense.

Machine inspection, adjustments, repairs shall be performed in the field, unless convenient prior arrangements are made.

The dealer shall have the capability to provide transportation for the disabled unit to repair facility if necessary. Warranty related machine transport costs to the repair facility or travel time and mileage will be provided by the dealer for (7) years or (7000) hours.

Ninety-five (95) percent guaranteed machine availability (computed on a 2000-hour work year). After any continuous downtime greater than 40 work week hours, a replacement comparable machine shall be provided or an hourly assessment of \$100.00 per hour shall be charged to the dealer to cover a replacement rental machine. \$300.00 per day shall be charged the dealer at the anniversary date for downtime in excess of 5%.

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