NOTICE TO BID

The Board of Tillman County Commissioners is accepting sealed bids for lease-purchase of one (1) or more new AWD Motor Graders. Specifications may be picked up in the Tillman County Clerk's office. Sealed bids should be delivered to County Clerk, 201 N. Main, Frederick, OK or mailed to Tillman County Clerk, P.O. Box 992, Frederick, OK 73542. The envelope should be plainly marked **"Bid #4-2018, Grader"** on the lower left corner and mailed to the Tillman County Clerk, P.O. Box 992, Frederick, OK 73542 or delivered to the Tillman County Clerk, 201 N. Main, Frederick, OK. Bids will be accepted until bid opening time at **10:30 A.M., Tuesday, November 13**. The Commissioners will determine the lowest and best bid and reserve the right to reject any or all bids. All bids will be considered on the basis of best value to Tillman County.

Cacy Caldwell
Tillman County Clerk and Purchasing Agent

TERMS AND CONDITIONS

1. Sealed bids will be opened in the Commissioner's Conference Room, Tillman County Courthouse, Frederick, Oklahoma, at the time and date shown on the invitation to bid form.

2. Late bids will not be considered. Bids must be received in sealed envelopes (one to an envelope) with bid number and closing date written on the outside of the envelope.

3. Unit prices will be guaranteed correct by the bidder.

4. Firm prices will be F.O.B. destination.

5. Purchases by Tillman County, Oklahoma, are not subject to state or federal taxes.

6. This bid is submitted as a legal offer and any bid when accepted by the County constitutes a firm contract.

7. Oklahoma laws require each bidder submitting a bid to a county for goods or services to furnish a completed and notarized Affidavit of Non-Collusion which is provided below.

8. Successful bidder will be responsible for making financial arrangements for the lease-purchase agreement as well as preparation of SA&I Form 120B.

AFFIDAVIT: I, the undersigned, of lawful age, being first duly sworn on oath say the he (she) is the agent authorized by the bidder to submit the above bid. Affiant further states that the bidder has not been a party to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding; or with any state official or employee as to quantity; quality or price in the prospective contract or any other terms of said prospective contract; or in any discussions between bidders and any state official concerning exchange of money or other thing of value for special consideration in the letting of a contract; that the bidder/contractor has not paid, given or donated or agreed to pay, give or donate to any officer or employee of the State of Oklahoma (or other entity) any money or other thing of value, either directly or indirectly in the procuring of the award of a contract pursuant to this bid.

Firm: _____

Signed by: _____

Title: _____

Address: _____

_____

Phone: _____

Subscribed and sword before me this _____ day of _____, 2015.

(SEAL)

_____
Notary Public (Clerk or Judge)

My commission expires: _____

NOTE: Other term and conditions can be added at the discretion of the county officers.

TILLMAN COUNTY

SPECIFICATIONS FOR LEASE/PURCHASE
ONE (1) OR MORE NEW ALL-WHEEL DRIVE MOTOR GRADER
BID #4-2018

GENERAL: The following specifications are intended for lease/purchase of one (1) or more new AWD Motor Graders. Service, operations, parts and repair manuals should be provided as well as safety, service and operations training at time of delivery to Tillman County. While the proposed specifications are considered minimum, Tillman County reserves the right to accept or reject any and all bids, waive minor irregularities in the bids and to award this bid in the best interest of Tillman County. Award Criteria will include conformity with the specifications, bid price, dealer product support capability, past dealer performance, resale value and delivery date. This equipment shall be equipped to meet all federal safety and emission standards and requirements. An Affidavit of Non-collusion, signed and notarized, must be returned with bid.

VENDOR'S PROPOSED MOTOR GRADER:

MAKE: _____ MODEL_____

CASH SALE PRICE: _____

LEASE-PURCHASE PRICE: _____

INTEREST RATE: _____ NUMBER OF PAYMENTS: _____

MONTHLY PAYMENT AMOUNT: _____

RESIDUAL BALANCE AT END OF LEASE (IF ANY): _____

DEALER _____PHONE_____

CONTACT_____

ADDRESS_____

SIGNATURE_____DATE_____

GENERAL:	**Compliant? (Yes/No)**
Machine shall be designed and built by the manufacturer	Y_____ N_____
Base Machine Weight shall not be less than 39,609 lbs. (17966kg) Weight shall include: standard machine configuration, lubricants, coolants, full fuel tank, and operator of 200 lbs. (91kg).	Y_____ N_____
Machine Height to top of cab shall not exceed 130 in (3308mm).	Y_____ N_____
Machine Wheel Base shall not be less than 241 in (6123mm).	Y_____ N_____
Tool box shall be provided	Y_____ N_____
ENGINE:	
Engine shall be designed and built by the machine manufacturer	Y_____ N_____
Engine shall be a turbo-charged, direct-injection, four-stroke, 6-cylinder diesel engine.	Y_____ N_____
Engine shall be certified EPA Tier 4 Final	Y_____ N_____
Engine shall be electronically controlled for more efficient fuel injection and fuel burn.	Y_____ N_____
Engine shall achieve rated power requirement with engine displacement Not less than 9.3L (568in^3) for better performance and fuel economy.	Y_____ N_____
Peak engine power shall not be achieved at an engine speed greater than 1800 rpm.	Y_____ N_____
Rated engine power shall no be achieved at an engine speed greater than 2000 rpm.	Y_____ N_____
Engine will have minimum torque rise of 47% from 2000 rpm to peak torque following SAE J1349 (net power with max fan).	Y_____ N_____
Engine enclosure and daily service points shall be accessible from ground level and grouped on the left side of the machine.	Y_____ N_____
Engine fan shall automatically adjust fan speed via a variable hydraulic fan pump to meet engine cooling requirements, thus reducing demand on the engine, putting more horsepower to the ground, reducing noise, improving fuel economy, and reducing heat.	Y_____ N_____
Engine shall be isolation/resilient mounted to minimize sound and vibration.	Y_____ N_____
Engine shall automatically lower engine torque and alert the operator if	

critical conditions are detected. Y_____ N_____

Engine shall have an air-to-air after cooler for superior engine performance. Y_____ N_____

Engine oil cooler shall be a water to oil shell and tube cooler system. Y_____ N_____

DEF lines should be heated to prevent freezing during extremely cold ambient conditions. Y_____ N_____

OPTION: Engine coolant heater shall be provided to assist in cold weather starting. Y_____ N_____

TRANSMISSION:

Transmission shall be designed and built by the machine manufacturer. Y_____ N_____

Transmission shall be a direct drive, power shift, countershaft type. Y_____ N_____

Transmission shall be equipped with built-in self-diagnostic capability. Y_____ N_____

Transmission shall have no less than 8 forward speed and 6 reverse speeds. Y_____ N_____

Transmission shall have 5 working gears between 0-10.6mph. Y_____ N_____

Transmission shall be isolated/resilient mounted to reduce sound and vibration. Y_____ N_____

A controlled throttle shifting system shall be standard to smooth directional gear changes without use of the inching pedal. Y_____ N_____

Electronic Throttle Control (cruise control) shall be standard. Y_____ N_____

Automatic Differential Lock/Unlock feature shall be standard and shall not have speed, shuttle shifting, or tandem spinning restrictions for engaging/disengaging. System must be load-sensing for optimal performance. Y_____ N_____

Differential Lock/Unlock shall be electro-hydraulically controlled. Y_____ N_____

Differential Lock/Unlock shall be a multi-disc design. Y_____ N_____

Final drive shall be a planetary design. Y_____ N_____

Machine shall be equipped with an electronic inching pedal for improved modulation and machine control. Y_____ N_____

Machine shall be equipped with electronic over-speed protection to prevent the engine and the transmission from over speeding. Y_____ N_____

STEERING & IMPLEMENT CONTROLS:

Steering wheel shall not be required to operate machine. Y_____ N_____

Joystick Steer capabilities shall be ISO5010. Y_____ N_____

Secondary steering shall have a primary and secondary power supply in the event the primary source is lost. Y_____ N_____

Blade lift cylinders shall be individually controlled by the multifunction, 3-axis joysticks. Y_____ N_____

Joystick controls shall be mounted to adjustable pedestals, hard-mounted to the cab floor, independent of the operator seat. Y_____ N_____

Secondary steering shall have a primary and secondary power supply in the event the primary source is lost. Y_____ N_____

Transmission direction control shall be a 3-position rocker switch for selecting forward, reverse, and neutral. Y_____ N_____

Transmission gear selection shall be controlled by dual push buttons for up-shifting and down-shifting. Y_____ N_____

Manual Differential Lock/Unlock shall be operator controlled, via push button. Y_____ N_____

Machine shall have two redundant articulation sensors. Y_____ N_____

Two redundant sensors shall be standard in the steering cycles (one in each). Y_____ N_____

Three redundant sensors shall be provided in the steering joystick for additional safety. Y_____ N_____

BRAKES:

Machine shall have primary and secondary service brakes. Y_____ N_____

Entire braking system shall meet all requirements of ISO 3450: 1996. Y_____ N_____

Two separate left and right hydraulic brake accumulators shall be standard. Y_____ N_____

Parking brake shall be multi-disc, oil-cooled, spring-applied, hydraulically released, sealed, adjustment-free, and integrated into the transmission. Park brake shall not be externally located. Y_____ N_____

Parking brake shall be serviceable without removing the transmission. Y_____ N_____

Service brakes shall be multi-disc, oil-cooled, and completely sealed; they will also provide access to check and determine brake wear without removing or disassembling the brake assembly. Y_____ N_____

Service brake disc surfaces shall be grooved and carry oil between discs and plates with brakes fully applied. Y_____ N_____

Service brakes shall be hydraulically actuated, utilizing dual independent brake circuits. Y_____ N_____

Brakes shall be continuously pressurized, filtered, oil-cooled. Y_____ N_____

Machine shall have individual brake pods for each real wheel, located at each real wheel inside the tandem box, independent of tandem chains. Y_____ N_____

Brake line protection, including tandem walkways and hydraulic brake line guarding, shall be required to prevent line damage. Y_____ N_____

Service brakes shall provide a minimum of 620 in^2 of friction material surface area at each of the four tandem wheels. Y_____ N_____

HYDRAULICS:

A standard triple redundant hydraulic relief system shall protect machine hydraulic components. Y_____ N_____

Hydraulic implement pump shall produce between 0 and 55.7 gal/min of oil flow at 2,150 rpm. Y_____ N_____

Hydraulic system shall be a closed center, load-sensing type with a variable displacement, axial piston-type pump. Y_____ N_____

Hydraulic system shall be fully sealed, using Duo-cone and O-ring face seals Y_____ N_____

The hydraulic tank shall have a baffling system to reduce potential pump cavitations. Y_____ N_____

The maximum hydraulic system pressure shall be no more than 3,500 psi. Y_____ N_____

Implement valves shall be electro-hydraulic, designed and built by the machine manufacturer. Y_____ N_____

Implement pump shall no be mounted under cab floor, minimizing sound and vibration. Y_____ N_____

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_____

Lock valves shall be integrated into the main implement valve to prevent cylinder drift. Y_____ N_____

The hydraulic stand-by pressure shall be no more than 885psi at 2,150 rpm. Y_____ N_____

Hydraulic valves shall not be mounted under the cab floor, minimizing sound and vibration. Y_____ N_____

Left and right blade lift cylinders shall have independent float capability. Y_____ N_____

A sight gauge will be provided for checking hydraulic reservoir fluid. Y_____ N_____

Hydraulic oil change service interval shall be no less than 6,000 hours with oil sampling. Y_____ N_____

Hydraulic system shall have a separate oil tank solely dedicated to the implement pump. Y_____ N_____

FRONT AXLES AND TAMDEMS:

Front axle oscillation shall be no less than 32 degrees total, per side 16 degrees up, 16 degrees down. Y_____ N_____

Front axle shall be an arched design for maximum ground clearance. Y_____ N_____

Front spindle shall be heat induction hardened. Y_____ N_____

Front wheel spindle bearings shall be a double tapered design with the larger diameter bearing mounted closest to the centerline of the front tire. Y_____ N_____

Front wheel steering angle shall be no less than 50.0 degrees left or right. Y_____ N_____

Maximum front wheel lean shall be no less than 18 degrees left or right. Y_____ N_____

Machine turning radius shall not exceed 25'7" using front steering, full articulation and unlocked differential. Y_____ N_____

Distance between center of tandem wheels shall be no greater than 60.0 inches for optimum clearance and mobility. Y_____ N_____

Tandem drive chain pitch shall no be less than 2.0 inches. Y_____ N_____

Tandems shall be capable of oscillating 15 degrees front tandem up and 25 degrees front tandem down, with full machine articulation and having no interreference between tandem wheel and machine structure. Y_____ N_____

Electronic and mechanical steer stops located at each wheel and steering cylinder relief valves shall be present to prevent steering system damage during normal operation. Y_____ N_____

Steering tie rod ends shall be heat induction hardened. Y_____ N_____

Machine shall provide 2 steering cylinders for maximum steering force. Y_____ N_____

When equipped with a ripper, the machine shall have a minimum ramp angle of 15.9 degrees. Y_____ N_____

TIRES AND RIMS:

Tires shall be 14.00-R24 radial in design. Y_____ N_____

3-piece tire rims shall be provided for mounting 14.00 R24 tires. Y_____ N_____

OPERATOR STATION:

A 42,075 BTU/h heater shall have an integral pressurizer and four-speed fan along with A/C Y_____ N_____

Seat shall be cloth-covered suspension seat with 3-inch retractable seat belts with adjustments for fore-aft position, seat height, seat back angle, thigh support, and lumbar support. Y_____ N_____

An enclosed cab with Rollover Protective Structure according to ISO 3471 shall be provided. Y_____ N_____

Cab shall be isolation-mounted to the front frame section of the machine. Y_____ N_____

Cab shall have fixed front window of laminated glass with intermittent wiper. Y_____ N_____

Falling Object Protective Structure shall be provided according to ISO 3499. Y_____ N_____

Machine shall have no less than 17 adjustable vents, positioned to direct air to front windows and operator. Y_____ N_____

Radio ready arrangement will include 24V to 12V converter, two speakers, antenna and wiring. Machine shall be equipped with AM/FM Bluetooth radio with weatherband, USB and auxiliary inputs. Y_____ N_____

An instrument cluster shall be provided that includes a speedometer, tachometer, coolant temperature, fuel and articulation gauge. Y_____ N_____

Operator cab fresh air-filter shall be accessible for clean out and replacement from outside of the cab at ground level. Y_____ N_____

A real-time information system shall monitor all system data and alert the operator of any faults through a digital text display. This information system shall be programmable for multiple languages. Y_____ N_____

Left and right side cab doors shall be provided. Y_____ N_____

Wipers shall be provided on side and rear windows. Y_____ N_____

Digital machine hour meter shall be provided. Y_____ N_____

An electronic message system shall provide real-time machine performance and diagnostic data. Y_____ N_____

Forward visibility shall be continuous and unobstructed glass from roofline to floor providing visibility of the blade, heel and toe, back of the cutting edge, and front tires. Y_____ N_____

Access to cab shall be three anti-skid steps. Y_____ N_____

Cab shall have cup holder, personal cooler holder/storage compartment for operator's manual, with a molded floor mat. Y_____ N_____

Window washer fluid bottle refill spout shall be located external of the cab. Y_____ N_____

DEF gauge must be visible to the operator at all times. Y_____ N_____

OPTION: Integrated display and wiring for a rear vision camera shall be provided with capability to view at all times without interfering with the gauge and diagnostic display. Y_____ N_____

OPTION: A rear sun shade shall be available. Y_____ N_____

OPTION: A rear defroster fan shall be available. Y_____ N_____

OPTION: An air suspension seat shall be provided. Y_____ N_____

OPTION: Anti-icing glass shall be available for front windshield and right hand door. Y_____ N_____

CIRLCE & MOLDBOARD:

Drawbar, circle, and moldboard shall be controlled with a maximum of two multifunction, 3-axis joysticks as standard. Y_____ N_____

Drawbar wear strips shall be replaceable drop-in inserts made from nylon composite material, replaceable and adjustable from the top of the drawbar plate via removable cover plates. Y_____ N_____

The drawbar shall feature welded protective wear plates to prevent lift group contact with the primary drawbar structure. Y_____ N_____

Moldboard shall have a bank slope angle capability of at least 90 degrees to both sides. Y_____ N_____

Moldboard shall have a hydraulic tip control though a range of 40 degrees fore and 5 degrees aft. Y_____ N_____

Moldboard wear strips shall be adjusted with lock screws, providing shim-less adjustment capability both vertical and horizontal. Y_____ N_____

Moldboard shall be pre-stressed during manufacturing. Y_____ N_____

Moldboard slide rails shall be constructed of a heat-treated, high carbon steel and have replaceable bronze alloy wear inserts on top and bottom. Y_____ N_____

Circle shall be a single piece, rolled-ring forging, with raise wear surfaces on the top and bottom. Y_____ N_____

Circle shall be rotated by a hydraulically driven motor with a minimum circle pinion torque capability of 44,253 ft-lb Y_____ N_____

Circle teeth contact surfaces shall be induction-hardened on the front 240 degrees of the circle. Y_____ N_____

Blade lift and center shift cylinders shall have replaceable bronze-alloy wear inserts in the ball sockets with removable shims to insure the ability to remove free play throughout the useful wear insert life. Y_____ N_____

The standard mounting hardware for cutting edges and end bits shall be ¾ in. Y_____ N_____

Link bar shall have 7 positions for increased versatility, the inner-most of which bear replaceable bushings. Y_____ N_____

Linkbar pin shall be separate from pin pulling mechanism. Y_____ N_____

Pinion gear shall be separate from the pinion shaft. Y_____ N_____

Circle outside diameter shall be no less than 60.2 in. Y_____ N_____

Throat clearance with standard moldboard shall be at least 166 mm. Y_____ N_____

There will be no more than 6 replaceable wear inserts between the circle and drawbar, providing at least 163 in^2 of wear surface area. Y_____ N_____

A 14'long, 24" high and no more than 1" think moldboard shall be provided. Y_____ N_____

ELECTRICAL:

Machine shall have a 145 amp-hour, 1125 CCA heavy-duty batter. Y_____ N_____

Machine shall have a minimum 150-amp or larger alternator at 24 volts provided which is brushless. Y_____ N_____

Six 3x3 inch halogen mounted cab lights shall be provided. Y_____ N_____

A 24 V to 12V converter with 10-amp capacity shall be provided. Y_____ N_____

Starting system shall be a 24V direct electric type. Y_____ N_____

LED white reversing lamps and LED stop lamps shall be provided. Y_____ N_____

Electrical system shall have a master disconnect switch with a removable key (in addition to the ignition switch), accessible from the ground level. Y_____ N_____

Machine shall have 200 amp-hour, 1400 CCA extreme heavy-duty batteries. Y_____ N_____

SERVICEABILITY:

Machine shall have a lockable swing-out cooling fan housing featuring a latch-style mechanism (shall no be of bolted design). Ability to open/close shall be ground level accessible. Y_____ N_____

The dip stick for checking transmission fluid shall be at ground level. Y_____ N_____

Hydraulic tank site gauge shall be readable from the ground. Y_____ N_____

Hydraulic tank filter shall be a cartridge style filter providing a separate filter element, housing, and drain valve. Y_____ N_____

A two-way communication tool shall give service technicians easy access to stored diagnostic data and allow configuration of machine parameters. Y_____ N_____

The articulation joint shall have a mechanical locking device to prevent frame articulation while servicing or transporting machine. Y_____ N_____

Left and right side tandem case assemblies shall be covered with punched steel plate to provide an adequate platform for standing and walking. Y_____ N_____

Engine primary and final fuel filters shall have 500 hour service replacement interval. Y_____ N_____

Engine shall have primary fuel filter with fuel water separator and electronic sensor, quick release dual stage filter and primer cup. Y_____ N_____

DEF tank fill shall be located on the same side as the fuel tank fill, and be easily accessible from ground level. Y_____ N_____

MINIMUM SERVICE FILL CAPACITIES:

Standard fuel tank capacity shall not be less than 104 gallons. Y_____ N_____

Standard cooling capacity shall not be less than 15.0 gallons. Y_____ N_____

Standard hydraulic tank capacity shall no be less than 16.9 gallons. Y_____ N_____

Standard engine oil capacity shall not be less than 7.9 gallons. Y_____ N_____

Standard tandem housing capacity shall not be less than 20.0 gallons each. Y_____ N_____

Standard front wheel spindle bearing housing capacity shall not be less than 0.13 gallons. Y_____ N_____

Standard circle drive housing capacity shall not be less than 1.8 gallons. Y_____ N_____

Standard DEF tank capacity shall not be less than 5.8 gallons. Y_____ N_____

SAFETY AND ENVIRONMENTAL:

A circle drive slip clutch shall be provided. Y_____ N_____

Hydraulic implement lockout shall be achieved by actuating a single electrical switch within the operator station. Y_____ N_____

An external emergency kill switch shall be available for ground level engine shut down. Y_____ N_____

Machine shall have laminated glass for the front windows and doors. Y_____ N_____

Machine shall provide dual exits allowing for emergency egress should one side become obstructed. Y_____ N_____

Machine shall have back-up lights and sounding alarm when reverse gears are selected. Y_____ N_____

Cooling fan shall have both a shroud and rear grill. Y_____ N_____

Machine shall allow cab interior and exterior lights to remain on separate from ignition switch. Y_____ N_____

A guard shall be installed to protect the machine's transmission from debris. Y_____ N_____

Rear vision camera with integrated display and wiring shall be provided. Y_____ N_____

Drop down rear lights (stop/turn signals) shall be available to span the profile of the machine. Y_____ N_____

Outside mounted west coast style mirrors shall be provided. Y_____ N_____

Rear ripper shall have 5 ripper shank holders and 9 scarifier shank holders. Y_____ N_____

Rear ripper shall have a working penetration of maximum 16.8 inches and a penetration force of at least 20,693 lbs. Y_____ N_____

OPTIONAL ATTACHMENTS:

An integrated communication tool providing flow of vital machine data and location shall be provided. This system shall give automatic updates on machine parameters such as hours, condition, location, fault codes, and alarms. Y_____ N_____

Machine shall have an engine coolant circulating heater installed. Y_____ N_____

A rear ripper/scarifier shall be provided. Y_____ N_____

ALL WHEEL DRIVE SYSTEM:

Standard with AWD, machine disengages the transmission and provides hydraulic power to the front wheels only. Y_____ N_____

The AWD arrangement utilizes dedicated left and right pumps for precise hydraulic control. Y_____ N_____

When AWD is engaged, flywheel horsepower is automatically increased up to an additional 27kW compared to the rear drive model. Y_____ N_____

AWD system shall provide a hydrostatic front wheel drive only mode neutralizing the transmission for precise low-speed performance. The ground speed shall be infinitely variable between 0 and 5 mph. Y_____ N_____

WARRANTY:

Minimum warranty not less than 60 months/6000 hours full machine coverage. Must include driving time and mileage. Attach warranty certificate detailing warranty coverage. Y_____ N_____

COMPLIANCE: Bidder shall furnish a statement in writing on this specification in the Vendor's Statement below, or by an attached letter stating the equipment proposed strictly meets these specifications, if not, he shall list each variation therefrom. The vendor shall fill in all spaces under the Vendor's Proposal. Failure to comply could result in bid rejection.

VENDOR'S STATEMENT: _____

_____

_____

_____

_____

_____

FAILURE TO SUBMIT BROCHURES, SPECIFICATIONS AND WARRANTY INFORMATION MAY DISQUALIFY BID.