ORDER: AUTHORIZE ADVERTISEMENT FOR SEALED BIDS FOR PURCHASE OF ONE MOTOR GRADER FOR ROAD DEPARTMENT

Motion was made by John Morgan, duly seconded by Tim Gordon, to authorize advertisement for sealed bids for purchase of one Motor Grader for Road Department.

The vote on the motion was as follows:

Supervisor Brent Larson, voted yes Supervisor John Morgan, voted yes Supervisor Tim Gordon, voted yes Supervisor Scott Allen, voted yes Supervisor Greg Bynum, absent

After the vote, President Larson, declared the motion carried, this the 7th day of October, 2024.

Brent-Larson, President Board of Supervisors Mike Roberts, Chancery Clerk

ADVERTISEMENT FOR BIDS

STATE OF MISSISSIPPI COUNTY OF LAFAYETTE

Sealed bids will be received by the Board of Supervisors of Lafayette County, Mississippi, until 10:00 A.M. on Friday, November 1st, 2024, in the Chancery Clerk's Office, 300 North Lamar, Oxford, Mississippi, 38655 for purchase of one or more motor grader for the Road Department.

LAFAYETTE COUNTY – BID NUMBER 336 ONE OR MORE MOTOR GRADER

Complete specifications may be obtained from the County Administrator's office located at 300 North Lamar, Oxford, MS 38655 or by email at kvictor@lafayettecoms.com.

Bids must include "Lafayette County-Bid Number 336, "One or more motor grader" on the outside of the sealed bid. Bids will be awarded to the lowest and best acceptable bidder, except that the Board reserves the right to reject any and all bids.

Published by order of the Board of Supervisors of Lafayette County, Mississippi.

Kate Victor County Administrator Lafayette County, Mississippi

October 9 and 16, 2024

	DARIO EDECIFICATIONE
V N	BASIC SPECIFICATIONS Basic Specific and the large than 27 420 lbs. Majorit shall include: standard masking configuration.
YN	Base Machine Weight shall not be less than 37,420 lbs. Weight shall include: standard machine configuration, lubricants, coolants, full fuel tank and operator of 200 lbs.
Y N	A rear hitch shall be included.
Y N	Machine shall be equipped with rear ripper hydraulics
Y N	Shall be equipped with 17.5-R25 tires.
	ENGINE
Y N	Engine shall be designed and built by the manufacturer.
YN	Engine shall be a turbo-charged, direct injection, four stroke, 6-cylinder diesel engine.
YN	Engine shall be certified EPA Tier 4 Final and European Union Stage IV
YN	
YN	
Y N	Engine shall develop, as standard, a rated net flywheel power of a least 179 HP in 1st gear, 189 HP in 2nd gear, 200. HP in 3rd gear, 210 HP in 4th gear, 215 HP in 5th gear, 220 HP in 6th gear, 225 HP in 7th gear, 231 HP in 8th gear.
	THE MIGHT GEAR, 210 FIF IN HILL GEAR, 210 FIF III DUT GEAR, 220 FIF III TUT GEAR, 237 FIF III DUT GEAR.
YN	Engine enclosure and daily service points shall be accessible from ground level and grouped.
YN	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.
YN Y N	Engine shall allow for at least 1000 hours of operation between oil changes. (with SOS sampling) Economy mode shall be available directly from factory to increase net efficiency.
YN	
Y N	DEF lines should be heated to prevent freezing during extremely cold ambient conditions.
	POWERTRAIN/TRANSMISSION
Y N	Transmission shall be designed and built by the machine manufacturer.
YN	
Y N	
YN	
YN	Transmission shall have 5 working gears between 0-10.6 mph for dirt applications.
YN	•
YN	pedal. Electronic Throttle Control (cruise control) shall be included and shall be controlled by a push button.
Y N	Automatic Differential Lock/Unlock feature shall be include and shall not have speed, shuttle shifting or tandem spinning
'N	restrictions for engaging/disengaging. System must be load-sensing for optimal performance.
YN	
YN	· · · · · · · · · · · · · · · · · · ·
	STEERING & IMPLEMENT CONTROLS
Y N	Steering wheel shall not be required to operate machine.
YN	
	seat.
	BRAKES
YN Y N	Machine shall have primary and secondary service brakes. 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	
Y N	Machine shall have individual brake pods for each rear wheel, located at each rear wheel inside the tandem box,
	independent of tandem chains.
YN	Service brakes shall provide a minimum of 620 in of friction material surface area at each of the four tandem wheels to
	eliminate braking loads on the power train.
v 11	HYDRAULIC SYSTEM
YN YN	A triple redundant hydraulic relief system shall protect machine hydraulic components. Hydraulic implement pump shall produce between 0 and 55.7 gal/min of oil flow at 2,150 RPM.
YN	Hydraulic system shall be a closed center, load sensing type, with a variable displacement, axial piston-type pump.
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Y N	The maximum hydraulic system pressure shall be no more than 3,500 psi.
Y N	Implement values shall be proportional priority pressure compensating for consistent response, when multi-functioning
V N	any combination of implement controls and independent of engine speed.
YN Y N	Implement pump shall be solely dedicated to implement controls and not shared with any other components. 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 6000 hours with oil sampling
Y N	Hydraulic system shall have a separate oil tank solely dedicated to the implement pump.
YN	Hydraulic filter will have 1000 hour change filter interval.
	FRONT AXLE AND TANDEMS
YN	Front axle oscillation shall be no less than 32 degrees total, per side 16 degrees up, 16 degrees down.
YN	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. Machine turning radius shall not exceed 25 ft. 7 in. using front steering, full articulation and unlocked differential.
YN	Tandems shall be capable of oscillating 15 degrees front tandem up and 25 degrees front tandem down, with full
YN_	
·	OPERATORS STATION
YN	* · - · · · · · · · · · · · · · · · · ·
	position, seat height, seat back angle, thigh support, and lumbar support.

Ŷ—	_ N	An enclosed cab with ROPS (Rollover Protective Structure) according to ISO 3471shall be provided.
Y	_ N	Cab door shall have a hold-open clasp with a ground-level release in addition to a release in the cab.
. <u>Y</u> —	_ <u>N</u>	FOPS (Falling Object Protective Structure) shall be provided according to ISO 3499.
Ţ	- N	
Y	_ N	An instrument cluster shall be provided that includes a speedometer, tachometer, coolant temperature, fuel and
.,		articulation angle gauge.
۳	_ N	
		display. This information system shall be programmable for multiple languages.
<u></u>	_ <u>N</u>	Left and right side cab doors shall be provided.
<u> </u>	_N	An electronic message system shall provide real-time machine performance and diagnostic data.
	_N	Machine shall have a rear view camera.
Υ	_ N	The 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.
Υ	N	DEF guage must be visible to the operator at all times.
		OPERATORS STATION-OPTIONAL ATTACHMENTS
Υ	_ N	Grade Attachment Ready Option (ARO) will be available from the factory. This shall Include additional mounting
	-	brackets and electrical harnesses for easy installation of the electronics kit.
		CIRCLE & MOLDBOARD
V	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	
	- N	
	- ''	ELECTRICAL
. <u>Y</u>	_ N	
Υ	_ N	Machine shall have a minimum 150-amp alternator at 24 volts provided which is brushless for increased life and
		durability.
. <u>Y</u>	_N	
Υ	_ N	
		SERVICEABILITY
Υ	_ N	Machine shall have a tockable swing-out cooling fan housing featuring a latch-style mechanism (shall not be of a
		bolted design), allowing easy access to cores. Ability to open/close shall be ground level accessible,
		eliminating need to climb on machine.
Y	_ N	Sampling ports shall be accessible from the tandem level and provide access to the engine, hydraulic, coolant, and fuel
		ports.
Υ	_ N	Engine primary and final fuel filters shall have 1000 hour service replacement interval with fluid sampling.
Υ	_ N	Engine shall have primary fuel filter with fuel water separator and electronic sensor, quick release dual stage filter and
		primer pump.
		SERVICEABILITY-OPTIONAL ATTACHMENTS
~	N	
'—	_ ''	SAFETY AND ENVIRONMENTAL
		· · - · · · · · · · · · · · · · · ·
		A standard circle drive slip clutch shall be provided to reduce horizontal moldboard impact damage.
	_ N <u></u> _	
Υ	_ N	Secondary, electric steering pump shall be provided as a backup to the primary implement hydraulic pump.
Υ	_ N	Operator not present monitoring system will lockout implements, shall not allow gear shift out of neutral, and lock parking
		brake if system detects operator not present for increased safety.
Υ	_ N	Hydraulic implement lockout shall be achieved by actuating a single electrical switch within the operator station.
Y	_ N	Machine shall provide dual exits allowing for emergency egress should one side become obstructed.
Y	N	Electrical system shall have a master disconnect switch with a removable key and lock for added safety (in addition to
		the ignition switch).
Y	_ N	Machine shall have back-up lights and sounding alarm when reverse gears are selected.
		,
Υ	_N	A 5 year/3000 hour premier warranty shall be included