

**Specifications for Motor Grader  
Adams County Road Department August 2020**

Equipment offered for consideration must be new and current year model. Used, demonstrator, or discontinued models are unacceptable. Bidders shall include printed literature for the equipment offered.

The following specifications are considered minimum acceptable.

- Engine:** Shall meet EPA Final Tier 4 standards
- Engine shall be turbo-charged, six cylinder diesel engine 9.0 liter with 220 net  
Flywheel HP
- Machine shall be equipped with electronic over-speed protection to prevent the engine and transmission from over speeding as a standard feature
- Engine shall have side doors for access
- Ground level fueling and filling for diesel exhaust fluid shall be standard
- Weight:** Minimum 35220 lbs. without additional counterweight and mid mount scarifier
- Frame:** Articulated design with safety lock
- Transmission:** Direct drive full power shift or Auto shift with eight (8) forward and six (6) reverse speeds; Foot pedal operated accelerator and transmission shall have inching capability with foot pedal
- The shift pattern shall be "U" shape or joystick controlled
- Transmission shall be equipped with built in diagnostic capability
- Hydraulics:** Pump shall have a minimum of 45GPM at maximum output; lock valves shall be integrated into main implement valve; hydraulic system shall have scarifier hydraulics
- Electrical:** The electrical system shall be 24 volt system with minimum of a 130 amp
- Alternator and master disconnect switch
- Machine shall have a minimum of 1125CCA extra heavy duty batteries
- Circle:** Minimum of 60 inches in diameter with replaceable wear strips; circle shall be rotated by a hydraulic driven motor
- Blade:** Minimum fourteen (14) feet in length, cutting edges, end bits and overlay bits;
- Hydraulic side shift and tip control; 14' long, 24" high by 7/8" thick

**Drive:** Tandem drive and oil immersed disc brakes; inboard mounted with multiple Disc brakes oil cooled and sealed

**Tire/Wheels:** 14.00-24 10 ply tires on 10" multi piece rims

**Operator Station:** The machine shall have standard hydraulic controls for blade functions and tilt steering wheel or joystick controls for blade and steering functions; other optional accepted, eight(8) electro hydraulic fingertip armrest controls or joystick controls

The machine shall be equipped with three rear view mirrors, one interior and two exterior mounted

The machine shall have a low ROPS/FOPS air conditioned cab

The machine shall be equipped with cloth covered air suspension seat with 3" Retractable seat belt and adjustments for support

Machine shall have air conditioned cab with heater

**General equipment:** Scarifier, mid mounted with teeth

The machine shall be built by the manufacturer

Fuel tank capacity shall be no less than 104 US gallons

The machine shall have-backup alarm, Operator warning system, parking brake, rear drawback, front and rear marker lights, minimum of two (2) driving lights plus six (6) additional work lights with front and rear turn signals, brake lights and hazard warning lights; tool box

The bid machine shall be equipped with OEM provided wireless communication system capable of monitoring and communicating machine location, fuel burn, as well as other machine performance data.

**Warranty:** The bid machine shall have 60 month or 5000 hours full machine warranty whichever to occur first (Provide description of warranty with bid).

**Buyback:** 60-month machine buyback must be provided

**Other:** Bidder shall have a certified parts and service center located within 50 miles of Natchez, MS Adams County

Must give estimate time of delivery

Cost must include delivery to one of the county barns

