

ARKANSAS STATE HIGHWAY & TRANSPORTATION DEPARTMENT
EQUIPMENT AND PROCUREMENT OFFICE
LITTLE ROCK, ARKANSAS

April 7, 2015

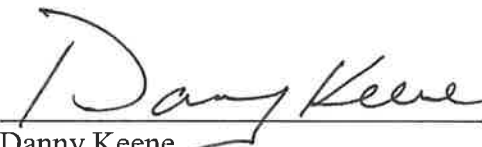
NOTICE TO BIDDERS

ADDENDUM

Bid Number: H-15-301R and H-15-302R

Opening Date: April 14, 2015

Bid Specifications were inadvertently left out of bids.



Danny Keene
Division Head
Equipment and Procurement

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

SPECIFICATION 15-197-111

FOR

ARTICULATED MOTOR GRADER

VARIABLE HORSEPOWER

170/200 HORSEPOWER MINIMUM

SCARIFIER AND POWERSHIFT TRANSMISSION

A. General Conditions:

1. **Current Model:** Units furnished under this specification shall be the latest improved model in current production, as offered to commercial trade, built for the U.S. market, and shall be of quality workmanship and material. Machines manufactured for foreign markets will not be accepted. All equipment offered under this specification shall be new. Used, reconditioned, shopworn, demonstrator, prototype or discontinued models are not acceptable. Manufacturers of the units supplied must have been in the business of producing operational units for at least two years and must have recently sold similar units to domestic governmental agencies. The model furnished must have been in production for a minimum of one year, or be the latest version of a previous model. Bidder/s may be required to submit documentation substantiating the aforementioned requirements. A list of user references may also be required.
2. **Literature:** Manufacturers literature, verifying adherence of proposed unit to each line item addressed in this specification, shall be submitted with the bid. If any literature and/or specifications of items conflict with AHTD specifications, the conflict(s) shall be specifically noted, corrected and submitted with the bid.
3. Any deviations from specifications and requirements herein must be clearly pointed out by bidder. Otherwise it will be considered that equipment offered is in strict compliance with these specifications and requirements, and successful bidder will be held responsible therefor. Deviations must be explained in detail on an attached sheet. However, no implication is made by the Arkansas State Highway and Transportation Department that deviations will be acceptable.
4. **Manuals:** The successful bidder shall furnish one (1) Operator's Instruction Manual with each unit delivered and one (1) copy each of Shop Repair Manual and Parts Book to each FOB point.

The successful bidder may provide Shop Repair Manuals and Parts Manuals on computer media (CD, DVD, USB Drive, etc.) in lieu of printed manuals.
5. **Training:** The successful bidder shall furnish qualified personnel to instruct AHTD operators and service technicians on operation and maintenance of machine.

In addition, the successful bidder shall furnish information on any factory service schools which would be available for AHTD service technicians.
6. Shall be assembled, adjusted and made ready for continuous operation at time of delivery.
7. All parts, accessories and tools necessary for satisfactory operation of this unit shall be furnished whether or not they are specifically mentioned in this specification (including standard equipment as regularly furnished by manufacturer as shown on printed literature and specifications - unless specifically excluded by this specification).
8. **Parts Inventory & Service Facilities:** The successful bidder shall maintain a representative inventory of replacement parts and service facilities for servicing equipment bid on.
9. **Demonstration:** The Arkansas State Highway & Transportation Department reserves the right to require a demonstration, under actual working conditions, of equipment bid under this specification before award is made. The demonstration would be performed (free of any charge) by the bidder or an authorized representative at a mutually acceptable location. If requested, the bidder should be prepared to demonstrate the equipment within thirty (30) days after notification. Failure of the bidder to perform a satisfactory demonstration within the specified time may be grounds for rejection of the bid.
10. **Cooperative Purchasing:** Other tax-supported entities* in Arkansas (cities, counties, state agencies, school districts, etc.) may purchase from this Contract on an individual basis under the same specifications and conditions, and at the pricing set forth by each vendor, all at the discretion of each vendor in each case. Prices could be reduced by a vendor for minor alterations in conditions (changing order quantities, deleting options, etc.) as agreed by both parties, but could not be raised above the contract bid price except for any additional freight charges. Vendors would not be required to sell to any such entity under this contract, and those entities would not be obligated to purchase from the contract.

Each entity wishing to purchase from the contract must make contact directly with the appropriate vendor(s). The Highway Department shall remain "out of the loop" for such transactions: all contact, orders, invoices, payments, etc. regarding such transactions must take place exclusively between the tax-supported entity and the vendor. The Department shall be held harmless of any and all liability arising from such transactions.

* Tax-supported entities are defined as those receiving more than half of total funding from appropriated tax funds.

B. Unit specifications:

1. **Engine:** Rear mounted water-cooled diesel with a governed speed of not more than 2,500 RPM. Shall be a variable horsepower engine developing a minimum of 170 SAE net horsepower in first gear. Engine SAE net horsepower shall increase as the transmission shifts upward through the gears achieving a minimum of 200 SAE net horsepower in fourth gear and a minimum of 230 SAE net horsepower in high gear. Engine shall comply with current EPA standards for off-road vehicles. Shall have electrical starting equipment including starter, battery, alternator and charge indicator. Shall have governor, oil pressure actuated electric hour meter, lube oil filters and fuel filters with replaceable elements, approved dry type air cleaner and pre-cleaner. Cooling system shall have anti-freeze protection to -20° F, or lower. All gauges or indicators, including temperature, oil pressure and charge, to be mounted in instrument panel in cab readily visible to operator from seat. Shall have foot actuated accelerator-decelerator in addition to hand throttle.
2. **Transmission:** Power shift type with no less than 8 speeds forward and 4 speeds reverse. Shall be either direct drive type or be driven through torque converter and provide speed ranges up to 23 mph in forward direction.
3. **Differential:** Locking type with operator controlled lock/unlock or automatic locking/unlocking No-Spin type.
4. **Circle:** Shall have both right and left hand 90° bank cutting angle capability. Shall be rigidly mounted and provide slack adjustments to compensate for wear. The circle shall have a minimum diameter of 60" with a hydraulic circle rotation of 360°.
5. **Moldboard:** Hydraulic shiftable type with a minimum of 46" total power slide. Moldboard shall be no less than 14' long, no less than 23.5" in height, no less than 0.87" in thickness and be complete with 8" cutting edges and reversible overlay end bits. Shall be punched for standard cutting edge and of a contour to permit the use of the 8" curved edges used by the Arkansas State Highway & Transportation Department. Shall have a lift of no less than 16" above ground level. Blade pitch shall be hydraulically adjustable with a minimum of 45° total pitch adjustment.
6. **Controls:** Full hydraulic with joysticks convenient to operator. Hydraulic control of circle and moldboard shall include the following:
 - A. Circle side shift
 - B. Blade side shift
 - C. Blade pitch
 - D. Circle rotation
 - E. Blade lift
 - F. Blade float
7. **Tires and Wheels:** 14.00 x 24 - 12 Ply tires with lug tread. Rims shall have a minimum width of 10".
8. **Dimensions:** Blade base shall be no less than 8'. Machine, excluding attachments, shall have a maximum overall length of 30' 4", maximum overall width over tires of 8' 6" and maximum overall height with low profile cab of 10' 10".
9. **Brakes:** Shall have foot pedal operated sealed oil disc service brakes effective on all four tandem wheels and parking brake as regularly furnished by manufacturer. Brake system shall meet the requirements of SAE J1152 and J1473.
10. **Steering:** Hydraulically boosted or hydrostatic steering. *Shall provide dead engine steering meeting the requirements of SAE J1511.*
11. **Frame:** Hydraulically articulated frame design providing no less than 20° left or right articulation. Frame shall be boxed type continuous welded of proven design and strength for weight class grader specified. Shall have front mounting plate and rear mounted tow hitch.

12. Cab: Fully enclosed, pressurized, Low Profile ROPS Cab with safety glass window openings to permit a full view of the moldboard and the road in front, rear and each side. Cab shall be equipped with the following as a minimum:
 - A. Right and left cab doors
 - B. Adjustable suspension seat
 - C. Seat belts
 - D. Floor mat
 - E. Inside rear view mirror
 - F. Outside rear view mirrors (mounted left and right)
 - G. Air Conditioning - factory installed (Air conditioning unit mounted on top of cab not acceptable)
 - H. Heater
 - I. Front and rear defroster
 - J. Front and rear electric windshield wipers
 - K. Adjustable steering console on units equipped with steering wheel
13. Axles: Front axle shall be leaning front wheel type, power controlled from the operator's station, with a minimum lean of 15° both right and left from center position. Ground clearance shall be no less than 24". Rear axle shall be semi or full floating type with tandem drive.
14. Scarifier: "V" type with a minimum swath of 46". Shall have a minimum of nine (9) shanks with replaceable teeth. Control shall be full hydraulic from cab. Scarifier furnished may be mid-mount or front mount style.
15. Additional Equipment:
 - A. Engine side panels
 - B. Vandalism protection
 - C. Horn
 - D. Fuel gauge
 - E. Moldboard work lights
 - F. Headlights
 - G. Stop and tail light
 - H. Directional signals
 - I. Backup alarm meeting the requirements of SAE J994 with a minimum sound level output of 97 decibels
16. Remote Monitoring System: Unit shall be equipped with an integrated factory installed remote monitoring system which interacts with electronic system controls. System shall offer the following capabilities as a minimum.
 - A. System shall be capable of monitoring and storing electronic data produced by the machine.
 - B. Unit shall be equipped with cellular communication capability for the transmittal of collected data.
 - C. This data shall be accessible to designated employees of the department for review from any internet connection. All data shall be in real time.
 - D. Data collected by this system shall be stored by the manufacturer for a period of not less than (1) one year (twelve months). This historical data shall be accessible to designated employees of the department for review from any internet connection.
 - E. The system shall be capable of notifying the manufacturer/dealer and AHTD personnel in the event a fault code is generated by a component of the machine. If the code is a priority code (immediate attention required, such as low

engine oil pressure, low coolant, high coolant temperature, hydraulic pressure, etc.) the manufacturer/dealer will immediately contact AHTD personnel to verify receipt of message.

- F. System shall be capable of allowing remote access by technicians for the purpose of diagnostic trouble shooting and software updates.
 - G. Unit shall be capable of showing the exact location of the machine as a street address and GPS coordinates.
 - H. Shall be capable of showing hour meter reading in real time and have the ability to notify maintenance personnel when service is due. AHTD personnel shall have the capability to set service parameters in the system for each unit.
 - I. System shall be capable of generating the following reports as a minimum.
 - (1) Unit tracking.
 - (2) Idle time.
 - (3) Machine usage.
 - (4) Engine fuel burn.
 - J. System shall allow designated AHTD personnel the ability to establish geofencing and curfew parameters for each unit.
 - K. The subscription for this package shall be provided to the AHTD free of charge for a minimum of (3) three years (36 months).
17. Weight: Motor Grader with cab, power shift moldboard, scarifier and 14.00 x 24 - 12 Ply tires, without ballast, shall have a minimum weight of 36,000 pounds.
18. Color: Manufacturer's standard color is acceptable.
19. Warranty: Units purchased under this specification shall be warranted against defects in material and workmanship for a minimum period of twelve (12) months (365 days) from date unit is placed in operation by AHTD.
- A. Warranty shall include all parts, labor and transportation costs to the location of equipment.
 - B. If equipment cannot be repaired on location, warranty shall include cost of transport to the facility where the repair work will be done.
 - C. It will be the responsibility of the successful bidder to insure that repairs are completed in a timely manner.
 - D. This is a minimum warranty required in order for a bid to be considered. Any warranty by the manufacturer on components of the grader purchased that exceeds the minimum warranty specified (and is so advertised and included in manufacturer's printed data sheets) shall be passed on to the AHTD.
 - E. If any warranty literature submitted with the bid conflicts with AHTD warranty requirements, the conflict(s) shall be specifically noted, corrected and included with the bid or the conflict(s) will be considered an exception to warranty specifications and the bid rejected.
 - F. Recent prior failure to provide warranty-work, parts, replacement parts or service, in a timely manner, for equipment from the same manufacturer or dealer shall be grounds for the rejection of any submitted bid, or for the denial of any otherwise qualified low bidder, whether such failure is attributable to the manufacturer or the dealer of the equipment. For the purposes of this paragraph "timely manner" means a period of time not exceeding thirty (30) calendar days to provide requested warranty-work, parts, replacement parts, or service. For the purposes of this paragraph "manufacturer" means the original manufacturer of the equipment and its successor or successors, regardless of number, and whether acquired by sale, merger, or otherwise. For the purposes of this paragraph "replacement part" means a part redesigned by a manufacturer to correct a design or engineering defect and which replacement part is capable of providing dependable performance in normal operation conditions for its normal service life without failure. Such bid or bids may be rejected by the Department until such failure or failures have been remedied to the satisfaction of the Department and until such manufacturer or dealer is providing such warranty-work, parts, replacement parts, and service in a timely manner.