

PROPOSAL FORM AND SPECIFICATIONS FOR ONE (1) USED ARTICULATED MOTOR GRADER, MODEL YEAR 2012 OR NEWER WITH LESS THAN 5,000 HRS.

DEALER:

MODEL & YEAR:

AMOUNT BID:

APPROXIMATE DELIVERY DATE:

SIGNATURE OF OWNER/AGENT:

SPECIFICATIONS

CONDITIONS:

Unit offered under this advertisement shall be a used standard production model of the latest design for said year.

Materials shall be of good commercial quality for the intended service and shall be produced by use of current manufacturing processes. Material shall be treated to resist rust, corrosion and wear.

The bidder shall satisfy the purchasing official that he/she maintains a store or branch within Elko County in the State of Nevada, staffed with qualified servicemen and with provisions for storing a representative supply of parts for the machine offered and with provisions for securing parts from the manufacturer within a reasonable length of time.

Bidders must submit with their bid the latest printed specifications and advertising literature on the unit they propose to furnish.

Bidder shall supply one (1) parts book, one (1) service and repair manual, and one (1) operator's manual with each unit.

Bidder will provide maintenance records and history if available.

Bidder shall be prepared to give a complete demonstration of the merits of the machine offered as directed by the purchaser. The machine so demonstrated shall be complete as offered by the bidder for this bid.

The bidder shall list on a separate sheet any variations from, or exceptions to the conditions and specifications of this bid. The list shall be labeled "Exceptions to Bid Conditions and Specifications," and shall be attached to the bid.

The price quoted shall include all transportation charges fully prepaid to the ELKO COUNTY HIGHWAY DEPARTMENT, 994 River Street, Elko, Nevada. Any Buy-Back returns shall be turned in at the same above address.

Bidder certifies delivery will be completed _____ Days from date of award.

Awards will be made based on the best value offered. Clauses requiring specific guarantees to cover parts delivery, total repairs and resale value may be included. The quality of the articles to be supplied, their conformity with the specifications, their suitability to requirements, delivery terms, and guarantee clauses shall be taken into consideration.

The purchaser reserves the right to reject any or all proposals, to waive any informality in proposals, and to accept in whole or in part such proposal as may be deemed in the best interest of the purchaser.

SPECIFICATIONS:

1. GENERAL

The machine shall be a used 2012 or newer with less than 5,000 hrs. standard production model.

2. WEIGHT

a) Minimum basic weight shall not be less than 36,000 lb. Comparably equipped weight includes lubricants, coolant, fuel tank, operator, 14' blade, hydraulic blade side shift and tip, suspension seat, engine side doors, differential lock, 1400-24 min. 12 ply (G-2) tires. Low-Profile ROPS cab. (135" max).

3. POWERTRAIN

The entire motor grader powertrain, engine, transmission, and final drives shall be designed and built by the machine manufacturer.

4. ENGINE

The engine shall be of diesel type, four stroke 6 cylinder, turbocharged, direct injection, fully equipped with all necessary operating accessories.

The engine shall have a total displacement of not less than 548 cu. in.

Engine shall develop at least net 190 hp. at flywheel when engine is equipped with fan, air cleaner, muffler, and alternator at 1900 rpm.

Engine air cleaner shall be dual element dry-type with a service indicator and automatic dust ejector.

Motor grader shall be equipped with 24 V direct electric starting system. Heavy duty starting motor, heavy duty maintenance-free batteries.

Diagnostic connector for analyzing starting and charging circuits.

Ether starting aid must be metered automatically to prevent damage to the engine.

Fuel tank capacity shall not be less than 100 U.S. gallons.

Extended life Anti-Freeze at -40F.

5. TRANSMISSION (Note to Bidders; look at Snow Arrangement)

The transmission shall be direct-drive power-shift type.

Standard transmission shall provide at least eight speeds forward and six speeds reverse.

Electronic Transmission control shall be a single lever or button for both direction and speed change.

Over-speed protection required.

Separate transmission oil cooler and transmission guard shall be standard.

6. FINAL DRIVE

Final drive shall be of planetary design.

7. BRAKES

Four outboard mounted oil disc brakes at each wheel shall be provided.

Service brakes shall be self-adjusting, oil cooled, multidisc type sealed from water, mud, and dust.

Service brakes shall have independent, dual circuits providing effective braking in event of partial system malfunction or engine failure.

Parking brake must be self-adjusting, and serviceable without removing transmission.

Engagement of parking brake shall neutralize transmission.

8. WHEELS AND TIRES

Six (6ea.) wheels with tires mounted. All tires will be 14.00-24TG, min. 12ply, G-2, tubeless grader type with traction tread.

Wheels will be 3 piece 10" wide x 24" diameter.

9. STEERING

Steering wheel or Joy Stick ok.

Machine turning radius shall not exceed 26' using front wheel steering, frame articulation, and differential unlocked.

10. FRONT AXLE AND WHEELS

Spindle shall be of "live" design with oil lubrication of bearings.

Steering stops should be provided and located at the wheel

11. MAIN FRAME

Front frame shall be flanged single box section construction.

Articulated frame.

Rear drawbar

The top and bottom pieces of the front frame shall be continuous, running from the articulation point to the front bolster.

11. HYDRAULICS

All hydraulic, low effort, controls, with the following;

Right Blade Lift with Float, Left Blade Lift with Float, Blade Side-shift, Blade Tip, Circle Drive, Center shift, Front Lean Wheel, Articulation, Rear Rippers, Front Attachment with float.

Hydraulic pump shall be a variable displacement piston type pump providing the same implement response/speed regardless of engine RPM or simultaneous use of at least three (3) controls.

Hydraulic system should be closed center, load sensing system which automatically adjusts flow pressure to the work requirement.

Steering circuit is given priority over implement circuits.

Separate tank for hydraulic oil only.

Hydraulic tank shall be non-vented to seal out dirt and contaminants.

12. MOLDBOARD

Moldboard shall be 14' long, 24" or 27" high, and no less than 7/8" thick. End bits and 8" X 5/8" cutting edges included.

Reinforcement by two heavy box sections, continuously welded.

Side rails will have replaceable bronze-alloy inserts top and bottom.

13. CIRCLE AND DRAWBAR

Drawbar draft arms shall be a solid steel fabricated into a "Y" frame.

The moldboard, circle and drawbar assembly shall be of sturdy construction and shall be attached to the frame by a ball stud with wear inserts. The circle must be capable of 360 degree rotation and be adjustable for wear.

The circle shall be supported by the drawbar with at least six (6) support shoes, with drop-in bronze alloy or nylon type wear material mounted with no fasteners.

Replaceable wear strips will require no welding.

Circle drive will have slip clutch protection.

The circle shall have raised wear surfaces top and bottom.

14. OPERATORS COMPARTMENT (Note to Bidders; look at Snow Arrangement)

Low Profile Cab (135" max.) ROPS cab with sound suppression.

Three level warning electronic monitoring system (EMS) shall be standard to monitor machine functions. EMS system and gauges shall be forward of operator.

In steering wheel applications entire control console, with all control levers including attachments and steering wheel, shall be indefinitely adjustable fore and aft as a single unit.

Steering wheel tilt.

Motor grader shall have frame articulation position indicator or gauge in the line of sight in front of the operator within the operator's compartment.

Contour suspension seat shall be adjustable fore/aft, lumbar, made with cloth cushions.

Radio ready; 5 amp, 24 V to 12V converter, two (2) installed speakers, mounted antenna and cable.

Inside rearview mirror, 2 outside Mirrors

Cab shall have min. three (3) wipers (with washers) on front upper and both lower windows for good visibility in poor weather conditions, and a rear window wiper.

Retractable seat belt.

Stop and tail lights, overhead flood lights, work lights center and rear.

Horn

15. ARTICULATION (Note for Bidder; look at Snow Arraignment)

Articulation joint shall have a shim adjustable bottom tapered roller bearings for long life.

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

16. SAFETY

Back-up alarm

360 degree rotating or flashing warning amber strobe light on top of cab, with on/off switch in operator's compartment.

Vandalism package.

17. AIR SUPPLY

Machine shall have a direct gear driven compressor attached to motor, no less than 6 CFM. Air reservoir will be no less than 5 gallons with an air dryer.(After market bolt on name brand ok)

18. ATTACHMENTS

Rear mounted ripper, scarifier attachment includes five (5) straight ripper shanks w/teeth. All hydraulics mounted with locking valves and operational.

Balderson style quick attachment and hydraulic system with float for existing Elko County Balderson V-plows installed with locking valve and operational from operator's compartment.

19. SPECIAL ARRANGEMENTS

Snow arrangement includes:

- 100 amp min. alternator
- Lights bar and cab mounted
- Lights work
- Light, RH snow wing location
- Provisional, Warning light
- Air conditioner with heater
- Fan defroster front and rear window
- Mirrors, outside mounted
- Speedometer/Tachometer
- Auto shift transmission
- Batteries, 1125 amp. min.
- Starting aid, ether
- Engine coolant heater for cold starting
- Brake line protection
- Snaps and covers for engine compartment