TOWN of WESTON, CONNECTICUT

Incorporated 1787

Department of Public Works

The Town of Weston is seeking bids for (2) John Deere 2 wheel drive Tractor model 6230 /w a Alamo Machete 17' Articulating boom base unit w/ 1- 60"and 1-48" flail grass head attached or equivalent equipment.

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Required bid submissions must contain the following:
Quote must be submitted on company letterhead and signed by the appropriate company officer.
Bid submission must contain the total delivered price for two complete units as specified.
Bids must contain a deductive alternative price for total trade in credit for two town owned John Deere Tractors w/Alamo flail mowers (equipment may be viewed at the Weston DPW garage 78 Old Hyde Rd, 9 am – 2 pm weekdays). The town will be the sole determiner of weather the contract will be awarded with this deductive alternative.
Complete specifications of the proposed tractor- mower, if it is other than the model specified in this solicitation.
Full warranty information.
Proposed delivery date.
Narrative description of repair capabilities and service response time.
Submission of Certificate of Insurance as described in the attachment.

Bid proposals must be returned in a sealed envelope on, October 7th, 2009 at 11 A. M., to Town Administrator's Office, 56 Norfield Rd, Weston, Ct. 06883. The envelope must be marked "Tractor and Mower bid". The Town of Weston reserves the right to reject any and all bids, or any part of a bid, and to waive any informality deemed not in the best interest of Weston. The Town of Weston reserves the right to negotiate with any bidder any amendments to the contract. For specifications see attached sheet. Questions may be directed to Joe Lametta at 203-222-2669

56 Norfield Road, P.O. Box 1007, Weston, CT 06883 Tel. (203) 222-2662 FAX (203) 222-8871

SPECIFICATIONS FOR LIQUID-COOLED DIESEL POWERED TRACTOR

The Tractor/mower required under these specifications shall be of a heavy duty type with a factory mounted cab and will be used for roadside and other road maintenance operations. The Tractor shall be able to operate in grass/brush cutting operations, giving the operator maximum safety, comfort and visibility. The tractor/mower shall be a current production model at the time of the bid, as evidenced by the manufacturer's published literature. The tractor/mower shall be the same as normally supplied to the agricultural industry and shall conform to all specifications listed below. Any and all parts or attachments not specifically listed below but necessary to furnish complete equipment shall be furnished. The tractor/mower shall meet or exceed all S.A.E. federal and state regulations, codes and safety standards in force for agricultural equipment at the time of delivery. Any and all manufacturer's standard engine horsepower, hydraulic pressure settings are to conform where applicable to S.A.E. standards.

OPERATING WEIGHT:

The tractor, complete with mower assembly installed and ready to operate without allowable ballast, will be a minimum of 12,700 pounds.

ENGINE:

The engine will be diesel turbo charged liquid cooled, wet sleeved, four (4) cylinder with not less than 276 cubic inch (4.5L) piston displacement with a minimum PTO horsepower rating of seventy-five (75) . The largest available 110 volt in-block coolant heater for the engine supplied shall be installed. The manufacturer's standard fuel filter and fuel system water separator shall be installed. The bid must note the brand and model number of the fuel/water separator to be installed. The engine must be equipped with an electrically operated shutdown device operated by a key switch.-cold weather package.

COOLING SYSTEM:

The cooling system must be pressurized with a high temperature thermostat. The system shall be protected with a 50/50 mix of water and ethylene glycol anti-freeze.

TRANSMISSION:

The transmission shall be sixteen (16) speed fully synchronized with partial power shift, integrated power reverser or forward/reverse shuttle with left hand reverser. It shall be equipped with a creeper gear that will provide a minimum of twelve (12) optional forward super-slow speeds.

DIFFERENTIAL:

The rear differential is to be equipped with a foot operated, electro-hydraulically controlled, positive locking differential lock.

CLUTCH:

The clutch must be a wet, multi-disk type. The dry clutch is not acceptable.

FINAL DRIVE:

The final drive shall be a planetary gear type.

FRONT AXLE:

The front axle shall be telescopic, adjustable from approximately sixty (60) inches to approximately eighty (80) inches. A sweep back type in NOT acceptable. The ground clearance shall not be less than twenty (20) inches.

STEERING:

It shall have full hydrostatic power steering with supplemental emergency backup system to allow the tractor to have power steering in event of engine or hydraulic power failure. The turning radius with brakes is to be approximately one hundred forty-five (145) inches.

SERVICE BRAKES:

The service brakes are to be hydraulically actuated, self-adjusting, two wheels, wet disc brakes with individually or simultaneously foot-operated pedals. The power system shall have emergency backup reserve capability in the event of engine failure.

PARKING BRAKES:

An adequate parking brake system shall be provided with visual warning system that indicates when the brakes are applied. The parking brake shall be independent of the service brake.

FRONT TIRES:

The front tires are to be 10.00 x 16", 10 PR F2 Bias .

REAR TIRES:

The rear tires are to be radial 18.4 x 34, 8 ply, R1. Ballast for left rear tire filled with a non-toxic liquid ballast.

CAB:

The cab is to be a fully enclosed, insulated for noise and all-weather steel providing rollover protection in accordance with OSHA requirements. Noise exposure level in the cab, based on a duration of eight hours per day, shall not exceed the acceptable OSHA requirements in force at the time of delivery. The cab shall include air conditioning, heater, defroster, sun visor, interior dome light, tilt steering wheel, tinted glass, two speed front wiper. A Super comfort seat with arm rests and operator restraint and 20 degree swivel option shall be installed. Outside mounted rear view left mirror shall be so installed as to provide the operator with an unobstructed view to the rear. Safety glass shall be provided throughout. Right and left self-cleaning steps of sufficient size having grab handles, constructed of Gripp Strut, Bustin or an approved equal.

ELECTRICAL SYSTEM:

The unit shall have a 12-volt electrical system throughout. The system shall include as a minimum an 115 amp alternator, electronic voltage regulator, horn and heavy-duty maintenance-free battery with a cold cranking capacity of not less than 1,250 amperes total at 32 degrees. The unit shall also be equipped with two sealed-beam driving lights, two sealed beam working lights and two directional lights in the front, two floodlights, two combination tail/brake and directional lights and a four-way emergency flasher unit in the rear.

HYDRAULIC SYSTEM:

The hydraulic system shall have full double acting cylinders. All cylinder piston roads must be ground, heat-treated chrome plated and polished. Hydraulic pressure shall be set at manufacturer's standard setting for the unit offered. The hydraulic system shall be equipped with the manufacturer's recommended filter for return oil. The hydraulic system shall be closed centered with a piston type pump. The hydraulic tank shall be equipped with an oil level visual site an oil temperature gauge.

POWER TAKEOFF:

Engagement of the power takeoff shall be electro-hydraulic. The power takeoff shall be 540 RPM rated and be equipped with a protective shield at the rear of the tractor protecting the power takeoff shaft. An audible warning and flashing light shall be installed in the operator's station to indicate that the power takeoff is engaged when the operator dismounts from the seat.

PAINT:

The paint shall be the manufacturer's standard lead free paint.

MACHETE 2™ 18' BOOM

The unit shall feature the following specifications:

FRAME & MOUNTING:

Mounting Rail Framework: Full length 4" x 4" x 5/16" steel tubing mounted to front bolster housing & to rear axle.
Mainframe: 4" x 4" x 1/4" steel tubing bracing frame with 4" x 4" x 5/16" steel tubing.
Counterweight: Minimum 1,300lbs.
Boom: Mated by a king post turning arm.
Kingpost: two 2 1/2" ID greaseable hardened steel bearings with a 2 1/2" diameter pin.
5" diameter x 1/4" thick UHMW polyethylene thrust washer

BOOM FEATURES & CAPABILITIES:

Boom Features: Boom structure of heavy duty alloy steel & constructed of a two piece design including inner boom and dipper sections/
Inner Boom Arm made of min. 6" x 6" x 1/4" wall steel tubing, 50,000 lb/sq.in. yield strength.
Dipper: Made of min. 5" x 5" x 1/4" wall steel tubing, 50,000 lb/sq. in. yield strength.
Main Pivots: 2" pins with greaseable, hardened steel bushings.

Boom Movement: Horizontal swing, vertical lift, dipper reach and mower head tilt. Horizontal boom swing minimum of 120° swing hydraulically operated.

Boom Reach w/standard 60" flail head: Up: 18' 7", Out 18', Down 5' 1" below tractor ground level.

OPERATION & POWER

Hydraulics: self contained hydraulic circuit for both mowing head and boom control circuit.

Mowing head circuit: closed-loop hydrostatic variable displacement piston pump rated 25gpm (58.3), 4,000 psi @ 2,200 rpm.

Hydrostatic pump: No-flow neutral position while mowing head circuit is "OFF".
A charge pump rated @ 8gpm (1.4hp) and 300 psi@ 2,200 rpm to refresh and cool the cutter circuit.

Boom Control Circuit: Load Sensing, variable displacement piston pump

Secondary Control Pump: Load sensing and rated at 18 gpm (31.5hp) and 3,000psi@ 2,200rpm.

Piston-Type Pumps: Provide internal relief for component protection

High Pressure Hydraulic hoses: Four wire braid construction, minimum rating SAE100R12

Hydraulic Reservoir: Front mounted hydraulic reservoir
Visual indication of tank level and temperature to maintain 20 gallon to support motor and boom control circuits.
Access points for draining and cleaning of reservoir
Frontal protection provided by heavy duty steel bumper plate
Access to components provided by a hinged, formed plastic cover

Cylinder Control Valve: Stackable, multi-section, electro-hydraulic, directional control valve.
Load-Sensing and section specific pressure compensation
Minimum four functions to be operated simultaneously
Protected from falling debris by a cover.
The swing, lift & dipper sections individual port relief valves for individual breakaway protection.

Filtration: 16 micron filter, ISO4406 cleanliness code of 18/13, full flow of 35 gpm
Pre-Valve inline pressure filter, maximum 12 micron filter, filter condition gauge and Minimum of rating of 30 gpm.

Drive System: Telescopic driveline with greaseable universal joints
Driveline: hard mounted to engine crankshaft, secured to pump shaft with double bolt style clamping yoke.
Standard tube diameter, maximum 2" round, 14 gauge wall thickness
Strength of driveline, 33.542 inch pound of torque
Cover featured to provide shielding of high speed rotating parts

Boom Control: Valve functions operated by joystick control
Manual override condition for boom movements

Tractor Requirements: Minimum of 8,500 lbs, minimum horsepower rating of 90HP.
Minimum 90" wheelbase
Minimum 18" Ground Clearance

OPERATOR PROTECTION & SAFETY

Six second emergency shut down for mower cutter head engaged by operator inside the cab.
Master ON/OFF switch for boom controls
Polycarbonate window protection on CAB tractors & ROPS tractor variations

MISCELLANEOUS

Boom Rest: 2 Piece boom rest mounted on rear axle or to mower frame when boom is in transport to take pressure off the lift, dipper & swing cylinders.

Optional Equipment:
Special Mower Paint, Stabilizer Cylinder(4WD Tractors Only), Joystick Control, Rotary 50"& 60" with swivel, Additional 12 month warranty, TMOST Safety Educ. Course-Tractor Mower Operator Safety Training

Weight: Shipping weight of approx. 7,500 lbs. (excluding tractor weight)

Warranty: One year parts & labor warranty. (OEM) parts may be used for warranty replacement.

6230 Cab Tractor

DESCRIPTION	ITEMS ORDERED	
6230 Cab Tractor		
Standard Cab		
Adjustable 2 WD Front Axle (59.1-74 In.)		
18.4R34 In. 144A8 R1W Radial (460/85R34 In. 147A8 R1W Radial)		
10.00L-16 In. 10PR F2 Bias		
PowrQuad PLUS 16F/16R Transmission with Left Hand Power Reverser (19 mph/30kmh) with Creeper		
Rear Independent 540 RPM PTO		
Flanged Axle, 8 Position Steel Wheels		
Vertical Exhaust with Underhood Muffler		
Super Comfort Seat (MSG 83) with Mechanical Suspension, 3" Seat Cushion		
Rear Windshield wiper with Front & Rear Washer		
Sun Visor		
Bottle Holder		
Air Conditioning & Heat		
Back Up Alarm		
Draft Control		
Right Hand Telescopic Draft Link		
Cold Weather Package I		
Toolbox		
One rear worklight LH, H-3		
License Plate Bracket with Light		
Beacon Light for Cab		
Mirror Telescopic, LH, Manually Adjustable		
Radio, Deere/Delco AM/FM Stereo with Clock & Weatherband		
CD Parts and Tech Manuals		

Insurance.

(a) Contractor shall, at Contractor's sole cost and expense, maintain in full force and effect from and after the effective date of this Agreement and until the completion or termination of Contractor's Services hereunder the following insurance, which shall name the Town as an additional insured, to protect the Contractor and the Town against claims of personal injury, death, or property damage: (i) business comprehensive general liability insurance, with per occurrence and aggregate limits of not less than $1,000,000.00, and a deductible of not more than $5,000.00; (ii) automobile liability insurance, with per occurrence and aggregate limits of not less than $500,000.00, and a deductible of not more than $1,000.00; and (iii) workers' compensation insurance in accordance with any applicable laws, regulations or other requirements of the state or states having jurisdiction with respect to Contractor's employees or other personnel, with such deductible or self-insured retention as may be required by law but in any event not exceeding $10,000.00 per incident.

(b) Within fifteen (15) days of the effective date of this Agreement, Contractor will provide to the Town copies of insurance certificates or other documents which establish that Contractor has insurance coverage in effect as required by this Section 5 of the Agreement.