



West Virginia Purchasing Division

2019 Washington Street, East
Charleston, WV 25305
Telephone: 304-558-2306
General Fax: 304-558-6026
Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header @ 4

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General Information

[Contact](#)[Default Values](#)[Discount](#)[Document Information](#)

Procurement Folder: 322501

Procurement Type: Central Master Agreement

Vendor ID: VS0000010061



Legal Name: LAWRENCE EQUIPMENT INC

Alias/DBA:

Total Bid: \$0.00

Response Date: 06/01/2017



Response Time: 10:56

SO Doc Code: CRFQ

SO Dept: 0803

SO Doc ID: DOT1700000082

Published Date: 5/24/17

Close Date: 6/1/17

Close Time: 13:30

Status: Closed

Solicitation Description: ADDENDUM_1: CLASS 135:
BATWING ROTARY MOWER

Total of Header Attachments: 4

Total of All Attachments: 4



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder : 322501

Solicitation Description : ADDENDUM_1: CLASS 135: BATWING ROTARY MOWER

Proc Type : Central Master Agreement

Date issued	Solicitation Closes	Solicitation Response	Version
	2017-06-01 13:30:00	SR 0803 ESR06011700000005989	1

VENDOR
VS0000010061 LAWRENCE EQUIPMENT INC

Solicitation Number: CRFQ 0803 DOT1700000082

Total Bid : \$0.00 **Response Date:** 2017-06-01 **Response Time:** 10:56:26

Comments:

FOR INFORMATION CONTACT THE BUYER
 Mark A Atkins
 (304) 558-2307
 mark.a.atkins@wv.gov

Signature on File	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Vendor shall use Exhibit_A Pricing Page(s) for bid pricing	0.00000	EA	\$0.000000	\$0.00

Comm Code	Manufacturer	Specification	Model #
21101701			

Extended Description : CLASS 135 BATWING ROTARY MOWER w/ 3-point Hitch:
Note: Vendor shall use Exhibit_A Pricing Page for bid pricing.
If bidding online vendor should enter \$0.00 in the Oasis commodity line.

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Item Number	Estimated Quantity	Unit of Measure	Description	Unit Price	Total
1	20	Each	One complete unit: Batwing Rotary Mower w/ 3-Point Hitch	\$ 16,150.00	\$ 323,000.00

Vendor shall list the year, make, and model of the unit being bid:

Year: _____ 2017

Make: _____ Woods

Model: ___BW180XHD_____

Vendor: _____ Lawrence Equipment_____

Contact Name: _____ Steven Michael_____

Contact Phone: _____ 540-383-1981_____

Contact Email: _smichael@lawrenceequipment.net_____

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY TO THE WVDOH.

DESCRIPTION: Batwing Rotary Cutter MAKE: Woods
MODEL: BW180XHD YEAR: 2017 PURCHASE AMOUNT: \$16,150

ENGINE: MAKE: _____ MODEL: _____ FUEL TYPE: _____
HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____
COOLING SYSTEM CAPACITY: _____

BELTS: DESCRIPTION: _____ PART NUMBERS: _____

GVW: 5,000 lbs AXLE CAPACITY: FRONT: _____ REAR: _____

TIRES: FRONT MAKE & SIZE: _____
REAR MAKE & SIZE: _____

DIMENSIONS OF UNIT: LENGTH: _____ WIDTH: 15' LENGTH: _____

VENDOR CONTACT PERSON: Steven Michael PHONE: _____

PARTS:

BATTERY MAKE: _____ MODEL: _____ CCA: _____
TOP OR SIDE POST: _____ DIMENSIONS: LENGTH _____ WIDTH _____ HEIGHT _____
SPARK PLUGS OR FUEL INJECTORS MAKE: _____ PART #: _____
FUEL PUMP OR INJECTION PUMP MAKE: _____ MODEL: _____
ALTERNATOR MAKE: _____ PART #: _____
STARTER MAKE: _____ PART #: _____
TURBO CHARGER MAKE: _____ PART #: _____
TRANS. MAKE: _____ MODEL: _____ AUTO/MANUAL: _____
HYDRAULIC PUMP MAKE: _____ MODEL: _____

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
OIL	<u>85-140</u>	_____	ENGINE	_____
AIR INNER	_____	_____	TRANSMISSION	_____
AIR OUTER	_____	_____	POWER STEERING	_____
FUEL PRIMARY	_____	_____	HYDRAULIC	_____
FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
COOLANT	_____	_____	BRAKE FLUID	_____
HYDRAULIC	_____	_____	COOLANT	_____
OTHER	_____	_____	OTHER	_____

Bid Specifications



Woods BW180XHD PRO Batwing Rotary Cutter

General: The specification is to describe a 15' flexible wing rotary cutter suitable for highway right-of-way, ditch, and roadside vegetation maintenance. The unit shall incorporate two 5' wings and a 6' center section. The unit shall be equipped with four gearboxes, six wheels, swivel clevis type hitch, two hydraulic wing cylinders, one hydraulic cut height adjustment cylinder, and adjustable parking jack.

Deck and Frame: The cutter shall be a pull type with three (3) sections hinged together with 6" blade overlap between sections to provide a cut width of no less than 15'. The blades shall cut the full width of the unit, and shall be so designed that no uncut areas will exist between each section. The cutter must be equipped with "quick change" blade pins. The top of the deck shall be free of structural members to keep water and debris from accumulating on the deck top. The top deck sheets shall be of not less than (0.179") 7-gauge steel. The frame structure shall be on the underside of the deck. The center frame shall incorporate two .5" high profile frame rails from the hitch attachment and front box frame to the box frame on the rear. Each wing section shall also incorporate front and rear box frames. The lateral structure of each cutter section shall extend the full width. The wing pivot pins shall be a minimum of 1" dia. solid steel. The two skid shoes on the center deck and each wing skid shoe shall be replaceable. The depth of the deck side frame shall be 13" from the deck to the bottom of the side skid shoes. The side frame material shall be .25" in thickness. The cutter shall be fully baffled, with .25" high-strength steel baffles welded to the frame. The baffles must be rugged enough to withstand all mowing conditions encountered in heavy use.

Gearboxes and Clutches: The cutter shall have an input gearbox horsepower rating of a minimum of 250 hp. The spindle gearbox shall have a horsepower rating of a minimum of 210 hp. The output shaft on each gearbox shall be 2.38" in diameter. Each blade spindle shall be equipped with an independent slip clutch in the event that the blades contact an immovable object. The clutches shall utilize two (2) friction discs. Gearboxes shall carry a 6-year limited warranty which covers defect in material and workmanship. The gearboxes shall utilize tapered roller bearings throughout. The lower neck of each gearbox shall have the seals protected by an anti-wrap device. An oil level dipstick shall be threaded into each gearbox to allow for oil level inspection.

Drive Lines: The input drive from the tractor to the center gearbox shall be ASABE Category 6 Constant Velocity drive and the drive from the center gearbox to the wings shall be ASABE Category 4. All drives shall be of North American manufacture.

Blade Rotation: The blade tip speed shall be 16,000 ft/min at 540 RPM or 1,000 RPM input from the tractor. The right and center sections shall rotate counter clockwise and the left deck rotate clockwise as viewed from above the deck facing the tractor. The cutter shall be capable of cutting material up to 4" in diameter.

Hydraulic Equipment: The unit shall utilize a 3" bore by 10" stroke tie rod type cylinder for raising and lowering each wing. A single 3.5" bore by 8" stroke tie rod type cylinder shall be used to raise and lower the unit for cut heights from 2" to 15". Hoses shall be provided to connect the cylinders to the tractor.

Wheels and Tires: Each unit shall be equipped with six (6) each 29" 5-bolt, foam-filled, used aircraft tires mounted on 5-hole, split pressed steel rims. The center section shall be equipped with two spring loaded wheel arms and dual wheels on each wheel arm. The wing shall be equipped with a single wheel that shall trail within the cut width with the ability to add an additional one wheel for dual wing wheels.

Hitch: The hitch shall be a swivel clevis type hitch. Dual 1" dia. leveling rods allow the deck to maintain proper cut attitude at all cut heights.

Parking Jack: A retractable pin-on type, hand operated, screw jack shall be provided to assist in the attachment of the cutter to the tractor. The jack shall be perpendicular to the ground at any cut height. A second mount shall also be provided above the deck for jack storage when the cutter is attached to the tractor.

Safety: The unit shall be equipped with 5/16" chain guards to adequately control thrown objects. All front and rear openings shall be covered with bolt-on chain guards that extend at least 1" below the blade line. The wings shall have a 1" pin to lock each wing in the upright position for transport. The unit shall also have provision to lock the center section in the raised position for transport. The mechanical transport locking mechanisms shall withstand the full weight of the components and relieve all stress from the hydraulic cylinders.



Woods BW180XHD PRO Batwing Rotary Cutter Specifications

Cutting width	180"
Overall width	190"
Overall length	205"
Transport width	96"
Cutting height	2-15"
Cutting height adjustment	hydraulic cylinder
Cut capacity	4"
PTO hp minimum	55 hp
Weight	4,900 lbs
Tongue weight	1,715 lbs
Hitch	swivel clevis
Deck type	smooth, sloped
Deck thickness	7-gauge (.179")
Side frame thickness	.25"
Side frame depth	13"
Deck shielding, front and rear	5/16" chain guards
Material flow system	fully baffled deck
Blade tip speed 540 rpm	16,000 fpm
Blade tip speed 1,000 rpm	16,000 fpm
Blade carrier	Round
Blade type	.5"x4" quick-change blade pins
Blade overlap	6"
Wing flex	90° up, 22° down
Wing leveling adjust	turnbuckle
Hinge rod diameter	1" full length
Driveline rating: Main	Cat 6 CV
Driveline rating: Wing	Cat 4, slip clutch
Output shaft diameter	2.38"
Gearbox rating splitter	250 hp
Gearbox rating spindle	210 hp
Gearbox warranty	6-year
Suspension	single spring on center deck wheel yoke, spring-loaded on each axle arm, walking tandem (center) spring-loaded (wing)

CRFQ 0803 DOT1700000082

Batwing Rotary Mower

BW180XHD Exceptions

7 gauge dome single deck

25" Severe Duty 20PR foam filled tires

Tandem walking axles

Mechanical spring cushion shocks

Cutting height 2" to 15"

Swivel clevis type hitch

No spring assist fold down