

**THE CORPORATION OF THE  
TOWNSHIP OF ZORRA**



**TENDER  
2017-09**

**ONE TRACTOR AND BOOM MOWER  
COMBINATION UNIT**



# TOWNSHIP OF ZORRA

274620 27<sup>th</sup> Line, PO Box 306 Ingersoll, ON, N5C 3K5  
Ph. 519-485-2490 • 1-888-699-3868 • Fax 519-485-2520



## TOWNSHIP OF ZORRA TENDER 2017-09

### FOR ONE TRACTOR AND BOOM MOWER COMBINATION UNIT

#### INFORMATION TO BIDDERS

Tenders will be received at the Township of Zorra Office until:

**10:00 AM. on Wednesday, July 5, 2017.**

It is our anticipation that a recommendation will be available for Township of Zorra Council approval at their July 11, 2017 Council meeting.

Descriptive literature must be attached. Where any model number is specified, an approved equal will be considered.

All tenders must be on Township Forms, clearly marked and addressed to the undersigned.

Tender prices must be valid for acceptance for 60 days following the closing date of this tender. Lowest or any tender not necessarily accepted.

It is the responsibility of the proponent to monitor the Township of Zorra Website for any addenda that may arise. Should any addenda be necessary, they will be posted on the website on or before 12:00 noon on Wednesday, June 28, 2017.

Aden Corcoran, C.E.T.  
Director of Public Works,  
Township of Zorra  
P.O. Box 306, 274620 27<sup>th</sup> Line  
Ingersoll, ON N5C 3K5  
519-485-2490 or 1-888-699-3868  
acorcoran@zorra.on.ca

## PART A - INSTRUCTION TO BIDDERS

### 1.0 TENDER DELIVERY & OPENING

- (a) Tenders must be submitted in a sealed package, clearly marked showing the tender number and must be submitted to the following address to the attention of the following individual not later than 10:00 A.M. Local Time, on July 5, 2017.

Township of Zorra  
274620 27<sup>th</sup> Line  
Ingersoll, ON  
N5C 3J6

- (b) Tenders received following the closing time will be rejected.
- (c) Tenders will be opened at a public tender opening meeting immediately following the deadline for submission at the Township Office.
- (d) **NOTE: Tenders must be submitted in a sealed envelope or carton clearly marked on the outside with the Tender number and description. Submissions that do not show the Tender number and description will be returned to the proponent unopened. Submissions by facsimile or electronic delivery, secure site or otherwise, are not acceptable.**

### 2.0 TENDER SUBMISSION

- (a) Bidders must submit one (1) original signed copy of the completed tender document.
- (b) Tenders will be deemed complete if they include a completed and executed Agreement to Contract - Form of Tender and Schedule of Prices, attached to this RFT. If the above information is missing or deficient, the Municipality reserves the right, in its sole and unfettered discretion, to request written clarification, or, to reject the Tender in its entirety.
- (c) All Tenders must be made upon the Form of Tender/Agreement to Contract attached to this RFT. The Form of Tender / Agreement to Contract must be executed with an original signature and remitted prior to the deadline for submission or it will be rejected.
- (d) Submission of a Tender will constitute acceptance of all provisions contained in this RFT.
- (e) Tenders which are incomplete, conditional, illegible, or obscure or which contain reservations, erasures, alterations, or irregularities will be declared improper and may be rejected. Tenders written in pencil will not be

considered. In the case of an error in extending the unit prices, the unit price shall determine the price bid. Mathematical errors made by the bidder extending unit prices will be corrected by the Municipality.

- (f) Any erasures or corrections to a Tender must be initialed or noted by the Bidder or the Tender may be deemed as Improper and may not be considered.

### 3.0 QUANTITIES

- (a) Unless otherwise specified in this *RFT*, quantities shown are approximate and furnished without liability on behalf of the *Municipality*. Quantities are supplied for the guidance of the bidders only and are not to be considered as minimum or maximum quantities.
- (b) Unless otherwise stated, payment will be by the unit complete at the *Tender* price on the actual quantities deemed acceptable by the *Municipality*.

### 4.0 INQUIRY

- (a) All inquiries regarding this RFT shall be directed, in writing, via fax, or by email to the attention of the contact shown on the front of the RFT package and throughout the document. No inquiries, if received within one week of the deadline for submissions, will be given any consideration.
- (b) Bidders attempting to contact Municipal staff or elected officials other than the contact indicated in this RFT, for whatever reason during the Tender or evaluation process, are advised that such action may result in their disqualification from the process and removal of their name from the Bidder's List. If consultation is deemed to be necessary by the Municipality, a pre-tender meeting of all Bidders and Municipal staff will be arranged at a location of the Municipality's choosing. The Municipality reserves the right to change the deadline for submission, if necessary, to accommodate such a meeting.

### 5.0 NON-EXCLUSIVE

Bidders should note that any Contract(s) awarded as a result of this RFT will be non-exclusive. The Municipality may, at its sole and unfettered discretion, purchase the same or similar Equipment or Services from other sources, including but not limited to other Bidders, during the term of the Contract(s).

### 6.0 SALES TAX

- (a) Harmonized Sales Tax - The Bidder shall show separately in the total tender pricing, all applicable Sales Tax and shall be responsible to verify with Revenue Canada any rulings for payment of tax or tax exemptions.

### 7.0 AWARD OF CONTACT

- (a) Award of Contract is based on Base price EXCLUDING all sales taxes.

## **PART B – STANDARD TERMS AND CONDITIONS**

### **1.0 ACCEPTANCE**

- (a) As soon as practicable after opening the Tenders, the Municipality will endeavor to act upon them. The acceptance of a Tender will be in the form of notice in writing signed by a duly authorized representative of the Municipality, and no other act of the Municipality shall constitute the acceptance of a Tender.
- (b) The Municipality may accept any Tender in whole or in part, whether the Total Acquisition Cost be the lowest or not, and may reject any or all Tenders in whole or in part.
- (c) All Tenders shall be irrevocable for ninety (90) days following the deadline for submission to allow sufficient time for evaluation of the Tenders and for the investigation of the Bidders.

### **2.0 PURCHASING BY-LAW**

- (a) Tenders will be called, received, evaluated, accepted, and processed in accordance with the Municipality's Purchasing By-law and Procedures. By submitting a Tender each Bidder agrees to be bound by the terms and conditions of that By-law and those Procedures and any amendments to them, as fully as if it were reproduced and attached to this RFT.
- (b) No verbal arrangement or agreement, relating to the Equipment or Services specified or called for under this RFT, will be considered binding, and every notice, advice or other communication, pertaining to it, must be in writing and signed by a duly authorized person.

### **3.0 BIDDER ELIGIBILITY**

- (a) The Municipality reserves the right to investigate and evaluate the experience, capability, registration and financial position of any Bidder prior to an award of a Contract. The Municipality reserves the right to reject any Bidder or Tender in its sole discretion, based on the information obtained.
- (b) This Tender is made by the Bidder without any connection, knowledge, comparison of figures or arrangement with any other person or persons making a Tender for the same Equipment or Services, and is in all respects fair and without collusion or fraud.

### **4.0 ASSIGNMENT**

- (a) The Contractor shall not assign the Contract (or any portion of it) without the prior written consent of the Municipality.

## **5.0 TAX ARREARS**

Firms/individuals having tax arrears will not be contracted by the Municipality for any new business. Payments owing to firms/individuals with existing contracts, having tax arrears, will be applied to the outstanding taxes and not forwarded to the firm/individual until all outstanding taxes have been fully paid.

**BID FORM**  
**TOWNSHIP OF ZORRA TENDER 2017-09 FOR**  
**THE SUPPLY AND DELIVERY OF ONE TRACTOR WITH ATTACHMENTS**

Please use ink or a typewriter and initial the bottom of each page.

Firm Name \_\_\_\_\_

Firm Address \_\_\_\_\_

City, Province \_\_\_\_\_

Phone Number \_\_\_\_\_

Name of Person Signing \_\_\_\_\_

Signature \_\_\_\_\_

Position of Person Signing \_\_\_\_\_

Proposals will be received by:

Aden Corcoran, C.E.T.

Director of Public Works

Township of Zorra

274620 27<sup>th</sup> Line

Township of Zorra

UNTIL 10:00 AM ON WEDNESDAY, JULY 5, 2017

| Item No | Specifications   | Confirm |    | Please Specify |
|---------|--|---------|----|----------------|
|         |  | Yes     | No |                |
| 1       | Main Tractor Unit  |         |    |                |
|         | <p>Make</p> <p>Model</p> <p>Year</p> <p>Tractor shall be able to accommodate the following</p> <p>21 Foot Cradle Boom Mower as specified below</p> <p>Three Point Hitch Rear mount Lely 205 mower (supplied by Zorra)</p> <p>Front Mounted Sweeper Attachment as specified below</p> |         |    |                |
|         | Tractor shall be capable of operating the boom and rear mowers simultaneously  |         |    |                |
|         | Tractor shall be side front utility type, i.e. not low slung industrial or high clearance agricultural row crop  |         |    |                |
| 2       | Engine   |         |    |                |
|         | Shall be a minimum of 4.5 Litre Turbocharged direct injected engine  |         |    |                |
|         | Engine shall be wet-sleeved and rebuildable  |         |    |                |
|         | Engine shall be capable of 100 PTO Horsepower at 2100 RPM  |         |    |                |
|         | Engine shall be four cycle valve in head and liquid cooled   |         |    |                |
|         | Shall be equipped with Block Heater, Cold Weather starting aid and Full Flow Oil Filter  |         |    |                |
| 3       | Four Wheel Drive   |         |    |                |
|         | Shall be modular design, electro-engaged four wheel drive with auto-engagement system  |         |    |                |
|         | Shall have a minimum turn angle of 52 degrees  |         |    |                |



|    |   | YES | NO | Please Specify |
|----|---|-----|----|----------------|
| 4  | Transmission  |     |    |                |
|    | Partial Power Shift shall be capable of 0.05 to 42 km/hr  |     |    |                |
|    | Power Reverse with smooth safe and well-modulated change of direction without clutching   |     |    |                |
|    | Transmission shall provide neutral position and neutral to gear modulation allowing operator precise control and jerk free operation                |     |    |                |
|    | Gears shall be helical cut and pressure lubricated  |     |    |                |
| 5  | Boom Centre Mountings   |     |    |                |
|    | Mountings shall be capable of supporting an operating load of a minimum of 2200 pounds  |     |    |                |
|    | Solid Mount shall be properly balanced to the front and rear axles to absorb side torque and impact of severe applications                          |     |    |                |
|    | Solid Mount shall exclude all types of breakaway systems but shall provide a shock absorbing swing type system for use when a boom arm is installed |     |    |                |
| 6  | Clutch  |     |    |                |
|    | Shall be equipped with a foot operated nine inch wet disk type clutch   |     |    |                |
| 7  | Final Drive   |     |    |                |
|    | Shall be equipped with a double reduction final drive with planetary gears mounted inboard on axles   |     |    |                |
| 6  | Brakes  |     |    |                |
|    | Shall be equipped with self-energizing wet disk type brakes enclosed with final drive   |     |    |                |
| 9  | Differential Lock   |     |    |                |
|    | Shall be equipped with a foot operated differential lock  |     |    |                |
| 10 | Power Take Off (PTO)  |     |    |                |
|    | Shall be equipped with a live independent power engaged 540/1000 RPM PTO  |     |    |                |
| 11 | Steering  |     |    |                |
|    | Shall be equipped with Hydrostatic Steering   |     |    |                |
| 12 | Hydraulic Pump Lift   |     |    |                |
|    | Shall be equipped with an internal hydraulic pump lift  |     |    |                |
|    | Shall be equipped with a mid-mount loader control   |     |    |                |

|    |   | YES | NO | Please Specify |
|----|---|-----|----|----------------|
|    | Shall be capable of 25 GPM @2900 rated engine speed providing 2900 PSI  |     |    |                |
|    | Shall be equipped with no less than three rear SCV's  |     |    |                |
| 13 | Cooling System  |     |    |                |
|    | Shall have pressurized Thermostat with bypass and anti-freeze protected to -40C   |     |    |                |
| 14 | Electrical System   |     |    |                |
|    | Shall be equipped with a 12 Volt 85 amp alternator  |     |    |                |
|    | Battery with a minimum of 780 CCA   |     |    |                |
|    | Two front mounted LED Headlights  |     |    |                |
|    | Roof mounted 360 Degree Visibility Amber and Blue Light Bar SWS 16884 with in-cab controls  |     |    |                |
| 15 | Roll Over Protection  |     |    |                |
|    | Shall be counterbalanced to safely perform duties as specified  |     |    |                |
|    | Shall be equipped with roll-over protection device conforming to all applicable safety standards  |     |    |                |
| 16 | Tires   |     |    |                |
|    | Front Tires shall be 380/85 R24 (13.6 x 24)   |     |    |                |
|    | Rear Tires shall be 460/85 R30 (18.4 x 38)  |     |    |                |
|    | Front and Rear tire tread shall be adjustable from 56 inch to 80 inch   |     |    |                |
|    | Proper tread width shall be adjusted by dealer to provide safe operation for specified configuration  |     |    |                |
| 17 | Cab Specifications  |     |    |                |
|    | One Piece locking left-hand door with a 14 gauge roof panel   |     |    |                |
|    | Overhead console with heavy duty pressurized blower with air filter, factory air conditioning, AM/FM Radio, mount for 2-way radio with plug in power supply for t-way radio |     |    |                |
|    | Tinted safety glass with right hand side windows protected by a hardened polycarbonate Lexan window   |     |    |                |
|    | Sound suppression package   |     |    |                |
|    | Front and Rear windshield wipers with washers   |     |    |                |
|    | One interior mirror   |     |    |                |
|    | Two heated exterior mirrors   |     |    |                |

|    |   | YES | NO | Please Specify |
|----|---|-----|----|----------------|
| 18 | Miscellaneous Equipment                     |     |    |                |
|    | Dash mounted instrumentation                |     |    |                |
|    | Fenders                                     |     |    |                |
|    | Dry type air cleaner with restriction gauge |     |    |                |
|    | Vertical muffler with rain cap              |     |    |                |
|    | Swinging drawbar                            |     |    |                |
|    | Category II Three point hitch               |     |    |                |

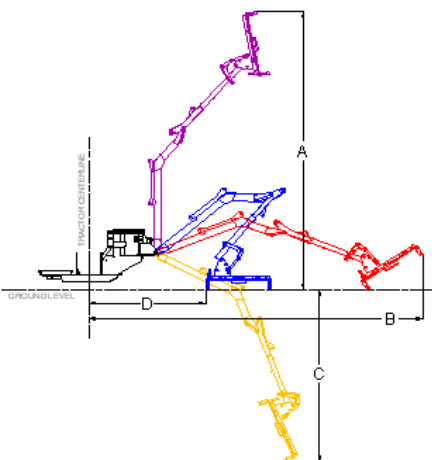
**SPECIFICATIONS FOR 22' REAR CRADLE BOOM**

**GENERAL SPECIFICATIONS**

It is the purpose of the following specifications to describe a self-propelled, hydraulically driven rear cradle boom, which will mow forward and right of the right rear tire of an appropriate sized tractor, and extend by means of an articulated, two-section boom. The unit will be of the manufacturer's current production heavy duty model, meeting or exceeding the terms of these specifications. The manufacturer will furnish parts and operation manuals for the unit(s) bid. The manufacturer will also guarantee equipment against defects in workmanship and materials for a period of (1) year, or date put into service. For any offer to be considered, all items must be standard production model, and not modified for bid purposes.

| <b>BOOM SPECIFICATIONS</b>  | <b>Yes</b> | <b>Comply Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|------------------------|---------------------------|
| The primary boom structural tube will have a minimum of the following sectional properties: Torsional 74.9 <sup>"4</sup> Bending (Horizontal) 60.1 <sup>"4</sup> Bending (Vertical) 23.8 <sup>"4</sup> . The primary boom will be constructed of 8"x6"x1/4" steel tube, and reinforced with 3/8", T1 steel.     |            |                        |                           |
| The secondary boom structural tube will have a minimum of the following sectional properties: Torsional 25.0 <sup>"4</sup> Bending (Horizontal) 22.1 <sup>"4</sup> Bending (Vertical) 11.7 <sup>"4</sup> . The secondary boom will be constructed of 6"x4"x1/4" steel tube, and reinforced with 3/8", T1 steel. |            |                        |                           |
| Boom swivel bracket will be triple anchored with 1" thick T-1 steel. All (3) anchors will have 360° grease groove hardened spring steel replaceable split bushings. All (3) anchors will each be equipped with a grease zerk.   |            |                        |                           |
| Boom will have replaceable steel bracketed acetal lined bearing with grease pockets at all pivot points.  |            |                        |                           |

| <b>BOOM SPECIFICATIONS</b>   | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|--|------------|----------------------------|---------------------------|
| Boom swivel point will be mounted high enough for the boom arm to be capable of passing over a road side guard rail without interruption, and Boom will be capable of resting in cradle mounted on right rear side of tractor for road travel. |            |                            |                           |
| Vertical boom movement will be powered by the use of hydraulic cylinders, and all boom pinned pivot points will be grease-able.  |            |                            |                           |
| Unit will be equipped with a single acting, single solenoid travel lock that will lock the deck roll hydraulic function when engaged with the boom arm in its travel rest.   |            |                            |                           |
| Joystick controls will be securely mounted so as to not interfere with other operator controls.  |            |                            |                           |
| A Polycarbonate lexan window will be installed to provide safety protection for the operator. It can be installed in place of, over the glass, or attached to a frame on the right side of the cab windows.                                    |            |                            |                           |
| Boom Cradle must be of significant height to accommodate a seven foot (2.13 m) Lely mower stored in the vertical position.   |            |                            |                           |
| Boom dimensions are measured from ground level and the tractor's centerline. Boom reach, height, and depth may vary depending upon tractor and/or tire configuration.  |            |                            |                           |



|   | 50" Rotary | 60" Rotary | 50" HD Flail | 63" Flail | 48" Saw Head | 36" FBC |
|---|------------|------------|--------------|-----------|--------------|---------|
| A | 19'8"      | 20'3"      | 19'2"        | 20'6"     | 19'8"        | 19'2"   |
| B | 22'3"      | 22'10"     | 21'9"        | 23'1"     | 22'3"        | 21'9"   |
| C | 11'        | 11'7"      | 10'4"        | 11'10"    | 11'          | 10'4"   |
| D | 7'4"       | 7'4"       | 6'10"        | 6'11"     | 7'4"         | 7'4"    |

| <b>MAINFRAME</b>  | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|----------------------------|---------------------------|
| Mainframe of boom mower will be solidly mounted, bolted, as well as mid and rear braced to tractor main mid-body to absorb side torque and impact of severe applications.   |            |                            |                           |
| Crankshaft adapter and spacer will be bolted securely to the front of the crankshaft pulley with cap screws and lock washers for the pump drive shaft and spline coupling to be mounted.  |            |                            |                           |
| Hydraulic pump mounting bracket will be bolted securely to the front of the tractor with spacers, and will be able to allow the hydraulic gear pump to be mounted and properly connected with spline coupling.                                    |            |                            |                           |
| The control box containing solenoid switches will be for controlling hydraulic flow from the hydraulic pump to the hydraulic motor. It will be mounted in a dry and well-protected area with wiring routed, and a 30 amp breaker in the cab area. |            |                            |                           |
| All wiring installed will be properly routed and protected with plastic wire cover and rubber boots for protection.   |            |                            |                           |
| Additional hydraulic valving will be installed on the exterior of the right rear cab area so valving will be accessible to the operator.  |            |                            |                           |
| Weights will be attached properly to tractor wheel (specifically excluded will be frame mounted weight.)  |            |                            |                           |
| All proper safety stickers will be attached to the boom mower.  |            |                            |                           |

| <b>PUMP &amp; GRILLE GUARD</b>   | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|--|------------|----------------------------|---------------------------|
| Front -mounted hydraulic pump will be protected by a ½” plate steel structure which is solidly mounted to the tractor bolster. The tractor front grille and headlights will be protected by a similarly constructed steel part mounted to the above guard. |            |                            |                           |

| <b>HYDRAULIC SYSTEM</b>  | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|--|------------|----------------------------|---------------------------|
| Hydraulic oil reservoir will have a minimum capacity of 35 gallons, with a minimum oil volume of 28 gallons to the sight glass.  |            |                            |                           |
| Hydraulic oil reservoir will be equipped with a combination sight glass and thermostat.  |            |                            |                           |
| Hydraulic oil reservoir will have a filter with 10 micron element, 75 gpm rated, and a restriction gauge visible to the operator.  |            |                            |                           |
| Hydraulic oil suction will be an unrestricted 1.5" ID (specifically excluded will be the suction filter and screens.)  |            |                            |                           |
| Hydraulic oil pressure and return system hoses will be 1" ID high pressure unrestricted. Hoses will have a burst pressure 4x working pressure.   |            |                            |                           |
| Hydraulic oil pressure, return, and lift system steel hydraulic lines will be mounted at the rear of the boom arms.  |            |                            |                           |
| Wire braid reinforced hydraulic lines will be used at all flexible positions on the boom arm (hydraulic hoses/tubing will not be allowed inside boom arms.)  |            |                            |                           |
| Pump drive shaft powers hydraulic pump for power to hydraulic motor, is attached to tractor crankshaft, and have a rating of 180 hp.   |            |                            |                           |
| Hydraulic pump will have a rating of 98 hp input, and pump and motor will be gear type with cast steel housing and steel gears (specifically excluded are aluminum pumps, motors, and aluminum gears.) |            |                            |                           |
| Hydraulic oil to the power center head will not pass through a restriction causing valve while operating the cutting head.   |            |                            |                           |
| Main hydraulic control valve will be non-restrictive, electric solenoid type, with starter lockout switch (Optional hydraulic brake valve available.)  |            |                            |                           |
| Hydraulic oil will be cooled by an air-to-oil cooler equipped with a reversible electric fan.  |            |                            |                           |

| <b>HYDRAULIC CYLINDERS</b>   | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|--|------------|----------------------------|---------------------------|
| Primary lift cylinder will be single acting, industrial type, welded, equipped with nitrogen accumulator, and an auto-cushioning device. |            |                            |                           |
| All cylinders are heavy duty industrial type, nitro steel rod welded, and all cylinder pinned pivot points will be grease-able.          |            |                            |                           |
| Hydraulic lift cylinders will be mounted on the top side of boom arms.   |            |                            |                           |

| <b>REAR CRADLE TRAVEL REST</b>  | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|----------------------------|---------------------------|
| The rear cradle (travel rest) will be axle mounted, specifically excluding 3-point hitch cradle mounts. |            |                            |                           |
| The rear cradle (travel rest) will be constructed of 5" x 5" and 3" x 3" tubing of 3/8" wall thickness. |            |                            |                           |

| <b>ACTUATOR</b>   | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|----------------------------|---------------------------|
| The boom can pivot 180° forward and rearward.   |            |                            |                           |
| While operating in forward and reverse direction, the boom has break-away protection. |            |                            |                           |
| The boom pivot will be hydraulically driven and fully enclosed.                       |            |                            |                           |

**SPECIFICATIONS FOR 50" BOOM ROTARY**

**GENERAL SPECIFICATIONS**

It is the purpose of the following specifications to describe a self-propelled, hydraulically driven, boom type, rotary mower.

| <b>SAFETY SPECIFICATIONS</b>  | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|----------------------------|---------------------------|
| Unit will meet or exceed the following industry standards: SAE J232, J115, J517, J920, J1150, J1170. ANSI/ASAE S441.1, EP363.1, S390.1, S203.13, S217.11, S278.6, S318.14, S483. ASTM A370. A compliance report will be available upon request. |            |                            |                           |

| <b>CUTTING HEAD</b>  | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|--|------------|----------------------------|---------------------------|
| The cutting head will have 435° of combined rotation, 50" of actual cut, and weigh at least 831 lbs.   |            |                            |                           |
| Deck will be 11 gauge, 110,000 psi rated Domex steel housing with 3/8" thick, 80,000 psi minimum rated steel side walls, with full length replaceable skid shoes on inner and outer ends.  |            |                            |                           |
| The cutting head will have a spring loaded, retractable shield for deflecting debris as well as protection from knife blades. (Optional hydraulically operated shield actuated by a 2" x 8" cylinder, controlled from within the cab.) |            |                            |                           |
| Hydraulic motor will have a minimum rating of 99 hp.   |            |                            |                           |
| Cutting head will be attached to the spindle by (6), 5/8" grade-8 bolts with tapered bolt protector.   |            |                            |                           |
| Cutting assembly will be a 23-1/4" solid 1" thick steel dish with (3) radial cutouts, and (3) case hardened, threaded inserts welded into place  |            |                            |                           |
| Cutting assembly will accommodate (3) 5/8" x 5" x 17-3/16" 360° swinging, single edged brush or grass suction knives. These knives will be attached to the dish with hexagonal blade bolts, castle nuts and roll pins.                 |            |                            |                           |



| <b>SPINDLE</b>  | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|----------------------------|---------------------------|
| The spindle will be one piece 8630 steel, mounted in straight roller bearings, 6.5" in diameter at its largest area x 13" long, with bearing diameter of 2.755" with a minimum of 4.5" between bearing centers. |            |                            |                           |
| Spindle will be direct coupled with a splined end, and have a minimum speed of 1,500 rpm.   |            |                            |                           |
| Spindle will be equipped with an easily-serviceable insert, machined from 1117 steel. Insert will have a lower failure point than the motor output shaft or the spindle shaft.                                  |            |                            |                           |
| Spindle housing will be attached to the cutting head so as to absorb 240,000 lbs. of shear strength, and distribute this load over an area of 169 inches <sup>2</sup> .   |            |                            |                           |

| <b>WARRANTY</b>   | <b>Yes</b> | <b>Comply<br/>Yes / No</b> | <b>Explain Deviations</b> |
|---|------------|----------------------------|---------------------------|
| Five Year Warranty on actuator boom swing mechanism.        |            |                            |                           |
| Five Year Warranty on blade carrier for 50 inch mower head. |            |                            |                           |
| Three Year Warranty on joystick and control valve.          |            |                            |                           |
| One Year Warranty on all other components.                  |            |                            |                           |

**FORM OF TENDER**

FOR TRACTOR COMPLETE WITH BOOM MOWER AND CRADLE.

MODEL & YEAR: \_\_\_\_\_

PRICE (as per specifications) \_\_\_\_\_

SUB-TOTAL \_\_\_\_\_

TOTAL PRICE \_\_\_\_\_

H.S.T. \_\_\_\_\_

**TOTAL TENDERED PRICE** \_\_\_\_\_

SPECIFY DELIVERY DATE FOR TOWNSHIP OF ZORRA, EMBRO YARD FOR AN ORDER PLACED ON OR BEFORE JULY 14, 2017.

NAME OF FIRM: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

\_\_\_\_\_

SIGNATURE: \_\_\_\_\_

TITLE: \_\_\_\_\_

DATE OF SUBMISSION: \_\_\_\_\_

DATE OF DELIVERY: \_\_\_\_\_

**ATTACH THIS SHEET TO THE FRONT OF YOUR TENDER  
ENVELOPE/PACKAGE SUBMISSION**

**TENDER  
TO BE RETURNED TO:**

**THE CORPORATION OF THE TOWNSHIP OF ZORRA  
274620 27<sup>TH</sup> LINE, P.O. BOX 306  
INGERSOLL, ON N5C 3K5**

**TENDER 2017-09  
ONE TRACTOR AND BOOM MOWER COMBINATION UNIT**

Bidder's Name: \_\_\_\_\_

Address: \_\_\_\_\_

| For Township Use Only |                    |
|-----------------------|--------------------|
| Date Stamp            |                    |
| Time Received         | Employee Signature |

**NOTE:** This address label/sheet must be affixed to the front of your sealed tender envelope/package submission. The Township will not be held responsible for envelopes or packages that are not labeled.