



REQUEST FOR BID # 201602-331 MOWER TRACTOR W/ FLAIL & ROTARY HEAD

BID SCHEDULE & DEADLINES:

February 20 – March 15, 2016

March 7, 2016 at 2:00 P.M.

March 15, 2016 at 2:00 P.M.

March 16, 2016 at 9:45 A.M.

Bid Release Date / Advertising Period.

Deadline for Submitting Questions.

Closing Date / Time.

Opening Date / Time.

Responding Vendor / Company Name

City / State

Attn: **Ron Erickson, Director of Purchasing**

Phone: 417-546-7281 / FAX: 417-546-3931

rone@co.taney.mo.us

Bidder's Initials: _____

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Commodity Title: MOWER TRACTORS W/ FLAIL & ROTARY HEADS (2)
 PLEASE MARK YOUR ENVELOPE "SEALED BID #201602-331"
 RETURN ONE (1) ORIGINAL & THREE (3) HARD COPIES.

Bid Submission

Location / Mail Address: Taney County Purchasing Department (Second Floor)
 P. O. Box 1630 (PO Box MUST be used for normal mail.)
 132 David St. (Physical Address MUST be used for package delivery.)
 Forsyth, MO 65653

Bid Opening

Location / Address: Taney County Commission Hearing Room (Old Courthouse)
 132 David Street
 Forsyth, Mo. 65653

The undersigned certifies their authority to bind this company in an agreement to supply the commodity or service in accordance with all terms, conditions, and pricing specified herein or to offer a "No Bid." Type or print information below. Bidder is REQUIRED to complete, sign and return this form with their submittal of Bid as well as all pages initialed. *An authorized signature and email address is mandatory, lack thereof will result in a determination of "Non-Responsive".

_____ Company Name		_____ Authorized Person (Print)	
_____ Address		_____ *Signature	
_____ City/County/State/Zip		_____ Title	
_____ Telephone #	_____ Fax #	_____ Date	_____ Tax ID #
_____ *E-mail		_____ Entity Type (Corporation, LLC, Sole Proprietor, Partnership)	

1. BIDDING PROCESS INFORMATION

The Purchasing Department is responsible for the Bid opening at the time and place noted in the request. If a Vendor is interested in a copy of the Bid tabulation they must include a direct email address, not website, in order to receive results. Obviously sealed Bids cannot be emailed so they must either be delivered by hand, courier, or USPS. (Please note USPS concerns listed in item #2.3)

A formal invitation for Bid is utilized when the total purchase exceeds \$4,500. The County also uses this method when the life of a term and supply contract is valued more than \$4,500. The Bid Package will contain well-defined standard technical specifications for the nature of the service or product requested. A formal closing date and time is specified. The Bidder must comply with this requirement in order to be considered for award. All Formal Invitations for Bid are handled by the Taney County Purchasing Department. Technical specifications are the responsibility of the specific requesting department.

As a courtesy the below “BID RESPONSE TIPS” Table is offered to assist Bidders. Feel free to use it as a checklist and information source to help create a more accurate response which is more compliant than it might otherwise turn out. Use a checkmark (✓) in the correct box as it applies to ensure everything is covered...

*A = Acknowledged below item with intent to comply/agree with as it may/may not apply.
 N = Not applicable.*

ITEM #	BID RESPONSE TIPS (Suggestions & Requirements.)	A	N
1.1	Read ALL Bid documents closely - immediately upon receipt.		
1.2	Note any/all special dates or requirements.		
1.3	See Items 3.1 & 3.2 for the process to submit questions.		
1.4	Handwritten responses must be clearly legible – in ink.		
1.5	Un-readable responses will be rejected.		
1.6	Three (3) copies of Bid are required. Please indicate copies versus original.		
1.7	Turn your Bid in as soon as possible.		
1.8	Deadline dates and times are strictly adhered to.		
1.9	The County cannot, and will not, accept any late Bids.		
1.10	No fax or electronic transmitted Bids will be accepted.		
1.11	In the event of only one response the County may reject the Bid and re-let it or consider other options which provide the best solutions - always acting in the best interest of Taney County.		
1.12	When a Bid, or project, includes pre-bid meetings or on site visits, Bidder attendance and compliance with signup sheets, etc., is mandatory.		
1.13	Pay close attention to the terms <i>must, will, shall, should or may</i> .		
1.14	Include a current/signed W-9 form with your company information. Having this up front benefits any awarded Vendor by greatly expediting our payment process. Taney County Accounts Payable Department must have this form before they can process payment.		
1.15	Include, if applicable, current prevailing wage considerations with your Bid.		
1.16	Remember to sign the Bid sheet as this is mandatory.		
1.17	For areas, questions, and requirements that do not always apply - “N/A” may be an option. (See Item 4.3)		

The following sections; 2, 3, and 4 include instructions, conditions, guidelines, requirements and other key factors that must be understood. Using the checkmark system here will assist Vendors in participating correctly and limit the possibility of their response being disqualified due to a technicality. Use a checkmark (✓) to acknowledge each of the following items. We have found this method improves communications, limits the need for questions and thus addendum, and helps to avoid other areas of confusion.

2.	INSTRUCTIONS AND GENERAL CONDITIONS:	(✓)
2.1	Delivery of: Sealed Bids, subject to Instructions and General Conditions and any special conditions set forth herein, will be received at the Taney County Purchasing Office until the Bid closing date and time indicated herein for furnishing the County with goods, and or, services as detailed in the following.	
2.2	Closing: Sealed Bids must be delivered before "Closing Date / Time" as listed on page one, to the Taney County Purchasing Department as listed on page two.	
2.3	USPS Warning: There is no mail delivery service at the courthouse. When sending packages Bidders risk their response not arriving in time by way of the United States Postal Service. The Post Office may fail to leave a "pick up slip" in the correct county P.O. Box alerting us that they are holding a package requiring our signature. If a Bidder must use U.S.P.S. do not require a signature on our end, simply make sure to mail it only to our P.O. address. Other delivery services require our physical address. Both addresses are clearly listed on page #2. U.S.P.S. ONLY recognizes our PO address. It is the Bidder's responsibility, not the county, nor the Post Office, to ensure Bids are delivered in time to the Purchasing Department.	
2.4	Late Packages: The County will not accept any Bids received after the listed closing date/time. Late Bids are "NON-RESPONSIVE". They will not be opened.	
2.5	Opening: Bids will be opened publicly at "Opening Date / Time", as listed on page one, and read aloud. All Bid responses will be considered public information as soon as they are opened and become a part of public record to be released to any person or firm who formally requests it.	
2.6	Award / Timeline: Recommendation for award will be made formally to the Taney County Commission as soon as possible after a complete review. Updates may be sent via email should the award process become delayed for any reason. (10 days or more.)	
2.7	Withdrawals: Bids may be withdrawn on written request from the Bidder at the address shown in this RFB prior to the time of acceptance of the Bid.	
2.8	Sealed & Marked: Bids must be submitted in a sealed envelope identified with the Bid number and dates of closing & opening. List the Bid number on the outside of the box or envelope and note "Response to Request for Bid enclosed" with a return name & address. No fax or electronic transmitted Bids will be accepted. Make sure your package indicates "BID", with the BID NUMBER - on the final outside surface of your package.	
2.9	No Bid: If you do not want to submit a Bid, please return the No Bid Response Form at the bottom of the last page of this package, and note your reason. (Optional).	
2.10	Bidder Expenses: This County is not responsible for any expenses which Bidders may incur in estimating, inspecting, nor preparing information to respond to this RFB.	
2.11	Presentations: The County reserves the right to conduct personal interviews or require presentations of any or all proposers prior to selection. The County will not be liable for any costs incurred by the Bidder in connection with such interviews or presentations (i.e. travel accommodations, etc.)	

2.	INSTRUCTIONS AND GENERAL CONDITIONS: <i>(Continued)</i>	(✓)
2.12	Bid Term: All Bids submitted shall be binding, and remain firm for ninety (90) calendar days following the opening. Pricing / Costs submitted within this response MUST BE HONORED within that set timeframe. Bidders should NOT respond unless certain on this point.	
2.13	Bid Rejection: The Taney County Commission reserves the right to reject any or all Bids when such rejection is in the best interest of the County.	
2.14	Multiple Awards: Bids may be awarded to one company or multiple companies; when such award is deemed in the best interest of the County.	
2.15	Payment Terms: Taney County standard payment terms are Net 30 after receipt of an invoice. We can not, and will not, agree to any other payment terms. Once products, or services, are received and accepted Taney County will process payment in full. Requests for credit applications are not necessary and will – in most cases – not be processed. Requests for deposits are not necessary and will not be accepted.	
2.16	Effective: This agreement shall take effect upon the approval by the Taney County Commission.	
2.17	Alterations: Any alterations, changes, lining out, or margin notes to any items within sections 2, 3, 4 may result in said Bid response being determined non-responsive.	
2.18	Direct Email Address: An email address MUST be provided in order to receive award results. (Not simply a website.) We do not use USPS for results only email. Final award results will be emailed to all responding Vendors. Results will also be posted on our website at: www.taneycounty.org . Please do not call for results.	
3.	GUIDELINES FOR WRITTEN QUESTIONS, ANSWERS (ADDENDA), ETC	(✓)
3.1	All questions must be submitted prior to the Bid opening and no later than 2:00 P.M. Monday March 7, 2016. Questions are to be emailed to; rone@co.taney.mo.us	
3.2	All questions will be answered in written addendum form and emailed to all parties who had previously been part of the original DBI (Direct Bid Invitation email), or had made email contact during the open Bid questioning timeframe. Addendum email will be sent as close as possible to the day following the deadline listed in item 3.1 above. Same addendum will also be posted on the Taney County website.	
3.3	Any/all addenda will be attached at the end of the posted Bid. An indication, in red, will alert visitors to our website as to the presence of any addenda.	
3.4	Aside from routine questions if it becomes necessary to revise any part of this RFB, written addendum will be issued to address that need. Any addendum to this RFB is valid only if in writing and issued by the Taney County Purchasing Department.	
3.5	Sunshine Laws: Per applicable laws and regulations concerning public documents, all Bid responses will be considered public information as soon as they are opened and become a part of public record releasable to any person or firm that requests it. Requests for copies, of Bid responses, must be made through the Taney County Clerk's Office (417-546-7202) requiring a Public Service Request Form (PSR). By law charges for time spent as well as a cost per page apply. Payment for copying fees is required prior to the making of copies. (<i>Section 610.026, RSMo.</i>)	

4.	BASIC REQUIREMENTS / FACTORS:	(✓)
4.1	Award of Contract: The County reserves the right to award to more than one (1) supplier. Multiple awards may be made on the basis of a primary, secondary, and tertiary supplier. The primary supplier shall furnish the County's requirements until such time as the County determines that it is in the best interest of the County to seek performance from the secondary supplier, then tertiary supplier. The County's decision will be based upon the ability of the primary source to supply acceptable goods or services within the County's time requirements. The County's decision to utilize the secondary and tertiary sources shall be final and conclusive. In addition, the resulting contract from this RFB will be considered "Non-Exclusive". The County reserves the right to obtain service from other suppliers.	
4.2	Agreement: The entire contents of received Bid response documents submitted by the successful Bidder to this RFB shall include <u>all</u> Bid documents and will become a part of any contract award as a result of this solicitation. These signed Bid Documents will be binding. Bidder shall initial all pages where the document denotes "Bidder's Initials: ____" at the bottom of each page. Any bids not complying with this condition may be considered non-responsive and rejected. The Awarded Vendor, of this RFB, will follow up with a written agreement sample, working with our Legal Services Department, and oversee completion of that process to the mutual satisfaction of all parties in harmony with this signed response. A standard sample agreement currently being used by Taney County, in most cases, is attached with this full bid package.	
4.3	Response Content: In order to enable direct comparison of competing responses, Bidders must submit responses in strict conformity to the requirements stated herein. Failure to adhere to all requirements may result in Bidder's Response being disqualified as non-responsive. All responses must be submitted using the forms provided herein. Every question should be answered. If not applicable, the section should contain "N/A."	
4.4	Advice of Award: The County's Bids, Bid Tabulations, and Bid Award information may be viewed on our website at www.taneycounty.org . (Purchasing Department Page.)	
4.5	Response Clarification: The County reserves the right to request additional written or oral information from Bidders in order to obtain clarification of their Responses.	
4.6	Rejection or Correction of Responses: The County reserves the right to reject any or all Responses. Minor irregularities or informalities in any response which are immaterial or inconsequential in nature, neither affected by law nor at substantial variance with Bid conditions, may be waived at our discretion whenever it is determined to be in the best interest of Taney County.	
4.7	Evaluation Process: The County's sole purpose in the evaluation process is to determine from among the responses received which one is best suited to meet the County's needs at the lowest possible cost. Any final analysis does not imply that one Bidder is superior to another, but simply that in our judgment the contractor selected appears to offer the best overall solution for our current and anticipated needs at the lowest possible cost.	
4.8	Acceptability: The County reserves the sole right to determine whether goods and/or services offered are acceptable for County use.	

5. SCOPE OF SERVICES:

The Taney County Purchasing Department will accept Bids for two (2) Mower Tractors W/ Flail & Rotary Heads. This equipment is to be purchased at the lowest possible cost, per the below specifications.

- 5.1 All of the below specs/details/requirements are assigned specific numbers to assist Vendors if/when certain questions may occur. PLEASE refer to the numbers as assigned if, or when, you submit your questions following the correct process for doing so as already detailed in section #3 on page #5.
- 5.2 It is the intent of these specifications, below, to describe an industrial self propelled mower tractor. The unit shall be the manufacturer's current production model meeting or exceeding the terms of this specification.
- 5.3 For any offer to be considered all items must be of a standard production model and not modified for bid purposes, with each item designed to work together as a complete packaged unit.
- 5.4 Submitted Bid Pricing should remain available for 12 full months after award.
- 5.5 Submitted Bid Pricing MUST include delivery to the Taney County Transfer Station at 274 Buchanan Road, Branson, Mo. 65616.
- 5.6 Use item #6.195 near the bottom of p.15 for total Bid Price/Cost, for each complete unit.
- 5.7 Please contact the following "Department Point of Contact" for questions concerning actual required specifications, or any other technical questions:

Randy Haes,
 Interim Administrator, Taney County Road & Bridge
 417-546-7268 (off) / 417-546-7924 (cell) randyh@co.taney.mo.us

For Sections 6, 7, 8, and 9 please use the below "KEY" to check (✓) off the appropriate box.

C = Comply with the specification, item, or condition.

D= Do not comply with specification, item, or condition.

E= Exception taken to specification, item, or condition. (For each exception "E" checked a full explanation should be provided, in writing, using a separate sheet of paper or form.)

6.	SPECIFICATION DESCRIPTIONS	C	D	E
6.1	JOHN DEERE 5085M FT4 CAB (OR EQUIVALENT), 2WD TRACTOR			
6.2	ENGINE:			
6.3	85 (63 kw) Engine horsepower @2200 RPM			
6.4	70 (52.2 kw) PTO Horsepower @ 2100 RPM			
6.5	4 cylinder Turbo charged with intercooler, John Deere PowerTech PWL diesel engine, EPA Final Tier 4 Compliant, common rail injection			
6.6	276 CID (4.5 Liters)			
6.7	Dry type air cleaner with safety element and pre cleaner			
6.8	Under hood muffler with vertical exhaust			
6.9	Antifreeze			
6.10	Hand and foot throttle			
6.11	Water separator bowl			
6.12	Key engine shutoff			
6.13	Front auxiliary drive preparation kit			

6.14	TRANSMISSION:	C	D	E
6.15	Power Reverser , 16 forward speeds, 16 reverse speeds, with left hand Electro hydraulic reverser, integrated park position, RH speed controls			
6.16	Oil Cooler			
6.17	Park lock			
6.18	EH Differential Lock			
6.19	Neutral Start Safety Switch			
6.20	Wet traction clutch			
6.21	REAR AXLE and TIRES:	C	D	E
6.22	Planetary final drives			
6.23	Flanged rear axle			
6.24	8 position wheel with two (2) 16.9-30 R-1 6pr Bias tires			
6.25	FRONT AXLE and TIRES:	C	D	E
6.26	2 Wheel Drive, Adjustable front axle			
6.27	8 position wheel with two (2) 11L-15 8pr F3 Truck type Bias			
6.28	STEERING and BRAKES:	C	D	E
6.29	Hydrostatic Power Steering			
6.30	Hydraulic Wet Disk Brakes Self-Equalizing & Self-Adjusting			
6.31	HYDRAULICS:	C	D	E
6.32	Open Center Hydraulic System			
6.33	24.7 GPM Tandem pump- total flow. 6.3 GPM Steering Pump and 18.4 GPM Implement Pump			
6.34	Dual selective control valve with couplers			
6.35	Power beyond, allows hydraulic pump to power implements that have independent control valves			
6.36	Hydraulic oil cooler			
6.37	POWER TAKE OFF SHAFT:	C	D	E
6.38	Independent 540/540E RPM rear with shields			
6.39	Electro-hydraulic clutch			
6.40	Wet PTO clutch			
6.41	Safety Start Switch			
6.42	Operator presence safety PTO warning			
6.43	ROCK SHAFT HITCH and DRAW BAR:	C	D	E
6.44	Telescopic draft links			
6.45	56 mm lift cylinder			
6.46	Category II hitch			
6.47	Adjustable sway chains			
6.48	Lower link sensing draft control			
6.49	Adjustable straight drawbar			
6.50	INSTRUMENTATION:	C	D	E
6.51	LCD instrument cluster			
6.52	Electric fuel gauge			
6.53	Electric DEF gauge			
6.54	Tachometer/ Hour Meter			
6.55	Electronic fuel gauge			
6.56	Oil pressure indicator light			

6.57	Air Cleaner restriction indicator			
6.58	Coolant temperature gauge			
6.59	Turn Signal Indicator light			
6.60	High Beam Indicator light			
6.61	Alternator Indicator light			
6.62	PTO indicator engagement light			
6.63	MFWD engagement indicator light			
6.64	ELECTRICAL:	C	D	E
6.65	12 volt electrical system			
6.66	One Battery (950 CCA, 180 AH Reserve)			
6.67	7 terminal ASAE outlet socket			
6.68	70 amp alternator			
6.69	LIGHTS:	C	D	E
6.70	Two front halogen headlights			
6.71	Two Turn flashing warning lights			
6.72	Two Rear work lights			
6.73	MISCELLANEOUS:	C	D	E
6.74	SMV emblem			
6.75	2.5 gallon DEF tank			
6.76	30 gallon fuel tank			
6.77	Tilt-up hood			
6.78	COMFORT GUARD CAB:	C	D	E
6.79	Single door cab			
6.80	Air conditioning and heating			
6.81	Vinyl seat with flip up feature, Retractable Seat belt			
6.82	Tilt and telescoping steering column			
6.83	Front windshield wiper			
6.84	Beverage Holder			
6.85	Telescopic rear view mirrors (2) manually adjustable			

NOTE: The following is the John Deere Order Codes for the tractor listed above. In order to be considered for award - Bid Responses must contain the following, or equivalent, codes as a minimum. CODES: 192BLV, 0409, 1380,2055,2010, 2400,3025,3320, 3400,3820, 4010, 5121, 5999, 6020, 6113, 6799, 8510, BLV10679. Any Vendor who is unsure about this requirement should contact Randy Haes as the point of contact for this RFB – already listed on p.7. Vendors who fully understand this requirement, and believe additional codes might be needed, should simply include such information within their respective Bid Response.

General (FT4 AR12 ARRT75SD)

It is the purpose of the following specifications to describe a hydraulic driven boom mower. Mowing is forward and right of the right rear tire and extended by means of an arched single section boom with hydraulic break away. This unit shall be constructed to interchange with a 60" Rotary cutting head. The unit will be the manufacture's current production model with a minimum of (1) one year previous production, meeting or exceeding the terms of these specifications. Units shall be manufacturer's heaviest duty model available. The Awarded Vendor shall guarantee that a stock of component parts be available at a location convenient to the county.

6.86	SAFETY and TESTING for the ENTIRE COMBINED PACKAGE:	C	D	E
6.87	Shall meet the following industry standards: SAE: J232 (Rotary), J1001 (Flail), J284, J990, J1065. ANSI/ASAE- 201.4, S203.13, S205.2, S279.12, S350, EP363.1, S483, S493. ASTM: A370. (VENDOR REQUIREMENT)Submit compliance report signed by a registered Professional Engineer (PE).			
6.88	Unit shall be equipped with a 7 second brake valve on the cutting assembly.			
6.89	Electric Solenoid control transport lock to be integrated into the mower control box.			
6.90	MAIN FRAME:	C	D	E
6.91	Main Frame shall be constructed to be supported on the front tractor bolster, center of tractor and rear axle housing, to absorb side torque and impact of severe applications.			
6.92	Main Frame shall be constructed of fabricated 80,000 PSI steel, bolted directly to each side of tractor frame. An underbelly frame member, running under engine, shall be welded, box frame constructed, of not less than 3/4" top and bottom material, with 5/8" sides, and connect the mainframe to each side of tractor (specifically excluding frames over hood designs). An integral swing cylinder mast shall be supplied as a welded assembly with the main frame.			
6.93	Main Frame shall position horizontal inner boom pin at a distance of not less than 40" from the ground but not more than 50". (VENDOR REQUIREMENT)Submit the actual distance from inner boom connecting pin (pin center) to the ground.			
6.94	Main Frame shall provide a minimum of 8" of ground clearance at a distance of not more than 26" from tractor center line. (VENDOR REQUIREMENT)Submit actual distance from mainframe to ground and from tractor center line to the lowest part of the mower frame or mower mounting component.			
6.95	BOOM SWIVEL BRACKET:	C	D	E
6.96	Swivel shall be box construction with a 100,000 PSI yield steel swivel cylinder tang with a vertical bearing boss, with steel backed, porous bronze inner structure, and acetyl resin overlay bearings. Bearings shall have grease pockets built in and support a 2 1/2" vertical pin. Pin shall be constructed of 4140 cold drawn steel, prehardened (heat treated), to a minimum yield of 105,000 PSI, pin shall be zinc plated. (VENDOR REQUIREMENT) Submit manufacturer of bearing, model and size.			
6.97	Swivel shall connect to inner boom cylinder with a greaseless spherical bearing. (VENDOR REQUIREMENT) Submit type of bearing and size.			
6.98	Swivel shall be supported by a greaseless thrust washer to eliminate galling between swivel bracket and boom mounting bracket. (VENDOR REQUIREMENT) Submit ID and OD dimensions and thickness.			
6.99	Hydraulic Hoses shall be routed thru hose clamp/guides with hose guards to prevent chaffing.			
6.100	Base shall have integral boom swivel attachment fork and constructed of 3/4" and 1" thick 100,000 PSI steel. (VENDOR REQUIREMENT) Submit material and thickness of fork.			
6.101	Horizontal swing cylinder shall have an internal cushion device to limit flow when boom is operated to the forward boom position.			
6.102	PRIMARY BOOM:	C	D	E
6.103	Inner end of Primary boom shall have a 1 1/2" diameter 105,800 PSI yield, hardened, nitride surface pin, with a high-strength, steel backed, porous bronze inner structure, acetyl resin overlay bearing installed.			

6.104	Primary boom shall be constructed of 4mm, 110,000 PSI steel plate formed and welded to 8"x 6"x 5/32" at outer end tapered to 8"x 3" at inner end. Boom arch radius of 17 3/4".			
6.105	Mounting tube shall be constructed of 70,000 PSI, 4 1/2" sq. x 1/4" steel tube, welded to 11"x 7 1/2"x 3/8" 100,000 PSI end plates. Hydraulic cylinder for slide mounted inside tube for protection. Mounting tube shall be integral with slide tube assy.			
6.106	Slide tube assembly shall be 6" x 6"x 1/4", 7,000 PSI yield steel with 1/2"x 1 1/4" full length UHMW slides for 29 3/4" of travel and 1/2"x 2"x 4 7/16" UHMW support guides.			
6.107	Slide tube shall be fastened to boom by an adjustable angular dual V section clamp that is pinned to boom by means of (4) 1 1/2" hardened pins and dogleg linkage.			
6.108	Pressure and return lines shall be hydraulic hoses mounted to back of boom. Hoses shall have a 4 to 1 safety factor. (Specifically excluding hoses and tubing inside of booms)			
6.109	Top mounted double acting lift cylinder.			
6.110	HYDRAULICS:	C	D	E
6.111	Pump shall be direct drive from the tractor front crankshaft adapter. (rubber mounted engine design shall have a double u-joint pump drive shaft) (VENDOR REQUIREMENT) Submit type of shaft attachment and number of u-joints supplied.			
6.112	Pump driveshaft rated not less than 122 HP.			
6.113	Reservoir shall be internally treated against corrosion with industry approved chemical agent at time of manufacture. Reservoir shall have a in tank filter rated at 75 GPM, 10 micron, 200 beta, element with bypass, restriction gauge, minimum (1) one PSI pressure at suction outlet and have ball valve at suction line. Tank pressurized to 3 PSI. (VENDOR REQUIREMENT) Submit material used to treat reservoir (include MSDS sheet). Type, design and micron size of filter element.			
6.114	Reservoir shall be mounted in tractors left hand rear wheel well. Reservoir shall have sufficient clearance for proper cooling and shall be a minimum 37 gallons of oil in an operating condition. Reservoir shall have a minimum of not less than 5" clearance (oil cold) from top of reservoir for expansion. Hydraulic fluid level and temperature gauge to be built-in reservoir.			
6.115	Hydraulic pressure connections shall meet SAE O-ring and JIC standards			
6.116	Pump shall be front mount, cast steel housing, steel gears, rated at 3250 PSI, 45 GPM and 96 HP input. (specifically excluding piston type pumps and cast aluminum housing pumps)			
6.117	Suction hose shall be unrestricted (Specifically excluding suction filters and screens)			
6.118	Hydraulic oil shall meet a cleanliness standard of ISO 46 rating, and the ISO Code 16/14/11 or better. (VENDOR REQUIREMENT) Submit report of oil sample.			
6.119	Hydraulic hoses and tubes shall be cleaned with pneumatic, triple projectile cleaning, and shall maintain a JDS-G169, class 5.6. ISO cleanliness rating. (VENDOR REQUIREMENT) Submit method of cleaning and standard met.			
6.120	Motor shall have cast steel housing with steel gears.			
6.121	Mower control valve shall be an electrically controlled, pilot operated. Logic elements shall be used to control pressures and ramp up and down speed to prevent excessive pressure spikes to system. Valve shall stop mower from turning in the off position and will not cause a restriction to generate drift while in the off position. (VENDOR REQUIREMENT) Submit engineering report signed by a Registered Professional Engineer (PE), the following: Ramp time to full stop, maximum operating pressure, maximum pressure to stop.			

6.122	Mower control valve shall stop cutter assembly in maximum of 7 seconds from full RPM. (VENDOR REQUIREMENT) State time to stop from full RPM.			
6.123	FLAIL HEAD SPECIFICATIONS:	C	D	E
6.124	Cutting width shall be at least 75" of actual cut.			
6.125	Side cutter assembly shall be flail type, hydraulically powered.			
6.126	Safety Shielding must include Foot Probe guarding as described in SAE Standard J1001. A safety guard consisting of a horizontal bar that is welded to the front cross tube with a 3/8" thick styrene butadiene rubber attached to the bar shall be standard on all side and rear flails.			
6.127	Rubber deflector shield shall be bolted to back of bonnet.			
6.128	Standard rotation models shall have internal formed steel baffle. Reverse rotation models shall be equipped with front deflector.			
6.129	Cutting height shall be adjustable from -1/2" to +6". (It shall not be necessary to remove the roller mounting brackets to adjust cutting height)			
6.130	CUTTING HEAD:	C	D	E
6.131	Drive belt system shall have automatic belt tightener. (Specifically excluding back bend belt tightener)			
6.132	Cutter head shall have replaceable skid shoes.			
6.133	Cutting bonnet thickness shall be 10 gauge, 80,000 lb yield steel with 1/2" drive side and 3/8" carrier side steel end plates.			
6.134	CUTTER SHAFT:	C	D	E
6.135	Cutter head shall have 80 forged, hardened to 40-50Rc, self cleaning, reversible all purpose knives, or 40 smooth cut grass knives. (VENDOR REQUIREMENT) Vendor to indicate type material and hardness of cutter knives.			
6.136	Cutter shaft shall have operating speed of 2,400 RPM at rated tractor RPM.			
6.137	Cutter shafts must be dynamically balanced, 4 3/4" diameter, 3/8" wall tubing with 1 15/16" diameter bearings, bearings shall be manufactured in the US. Each Bearing race shall have 2 set screws, counter-sunk into cutter shaft end shaft to prevent movement. (VENDOR REQUIREMENT) Vendor shall indicate: Country of bearing manufacture, size, and bearing attachment type.			
6.138	Cutter shaft shall have maximum clearance of 3/32" from bearing wrap protection.			
6.139	Knife swing circumference shall be a minimum of 47 1/8".			
6.140	Knife interchangeability shall not require change of cutter shaft.			
6.141	GROUND ROLLER:	C	D	E
6.142	Ground roller system shall be a horizontal tube with replaceable stub shafts located at each end. A bearing assembly shall be located in the roller adjustment bracket located at each end of the cutter housing, and connect to the roller through the stub shafts.			
6.143	Ground roller shall be 6 5/8" outside diameter tube with .280" side wall with outer ends, constructed of A53 steel, heat tapered to reduce scalping. 5/8" thick stub shaft mounting plates shall be welded to the tube in both ends.			
6.144	Stub shafts shall be of the replaceable, bolt in design, with a 3 5/8" x 1/2" piloted flange, and attached to roller with 4, 7/16" x 1 1/2", NC, Grade 8, internal hex cap screws. Stub shaft shall be solid 1 piece design, with 1 3/8" bearing surface, outer diameter of not less than 5 1/4", and machined of 36,000 PSI steel.			

6.145	A 1 3/8" double row spherical bearing shall support roller shaft on each end. Inner bearing area shall be protected by a full double lipped seal. Bearing shall be secured to the stub shaft with 2, 5/16" x 1/2" piloted set screws, located 60° from each other. Outer bearing cap shall be O-ring sealed, piloted to bearing and attached with not less than 6, 8-32 x 1/2", stainless steel, internal hex screws. (VENDOR REQUIREMENT) Vendor shall describe attachment of bearing to stub shaft, and design of outer bearing cap.			
6.146	JOY-STICK CONTROL LIFT VALVE:	C	D	E
6.147	Joy-Stick Valve Option: Shall be an electro-hydraulic, load sensing canbus controlled valve. Valve shall have interchangeable spools and shall have a manual over-ride for each section, and 12 volt electrical actuation. Lift and tilt functions shall have a float operation with one button activation and deactivation.			
6.148	Valve (Joy-Stick) shall have load-independent flow control; oil flow to individual function is independent of the load pressure of the function. Valve shall have built in pressure relief in pump side module (PVP), with system capabilities of pressures of not less than 4,350 psi continuous, and 4,640 psi intermittent. PVP shall have a pressure gauge connection for service and have an open center option for fixed displacement pumps.			
6.149	Valve (Joy-Stick) body shall have interchangeable spools, integrated pressure compensator, check valves, and different spool variants. Lift and tilt functions shall have float capabilities. Valves shall be configured with manual over-ride levers on one end and an electronic actuation module on the other.			
6.150	Electro hydraulic (Joy-Stick) actuation module shall interface with electronic control module (ECM) to integrate directly with proportional valve body. ECM shall have the ability to be changed electronically and or system diagnostics by manufactures software. Activation module shall have integrated electronics, sensors, and actuators, and shall have a feedback transducer measuring spool movement in relation to input signal; module shall control the direction, velocity, and position of main valve spool. Module shall have automatic active fault monitoring, and directional indication and LED light indication. Module shall have low hysteresis and shall have attachment for a sealed Deutsch connector. (REQUIRED)Vendor shall provide module hysteresis value, brand of connector, and IP rating of connector.			
6.151	Joy-Stick controller shall be an ergonomic right hand control, with two proportional functions on X-Y mode, and a top grip to house two proportional rollers with an additional float function button. Controller handle shall have a leather-like grained surface to allow hand to breathe during operation. Controller rollers shall have a spring centered potentiometer with a working range of + or - 42°. Controller shall be adjustable with dead band adjustment, independent voltage limiting potentiometers for each function, and integrated direction switches for each proportional module. Controller shall have integral cable plug in, and an RF shielded cable shall be supplied by the manufacturer. (VENDOR REQUIREMENT)Vendor shall state the manufacturer, model, and type of ECM, joy-stick, and valve.			
6.152	COUNTERWEIGHT:	C	D	E
6.153	Counter weight, total ballast weight (wheel weight and Calcium Chloride solution) shall be a minimum of 1,500 lbs. Wheel weight shall be cast steel, mounted flush to outside of wheel, and shall weigh not less than 500 lbs. (specifically excluding flame cut steel and or frame mounted weights) (VENDOR REQUIREMENT) Vendor to state total ballast weight and describe and list wheel weight.			

6.154	OPERATOR PROTECTION:	C	D	E
6.155	Shall have 3/8" right side, hard surfaced, polycarbonate protection for operator. Installed into the original cab manufactured door and or side window. (VENDOR REQUIREMENT) State thickness, manufacturer, and type of hard surface to polycarbonate.			
6.156	STOW SYSTEM:	C	D	E
6.157	A single point mounted boom stow system shall be attached directly to tractor with a frame member extending to the right-hand rear axle housing and further extend forward to mower main frame. 3 point hitch system shall function normally.			
6.158	Stow system shall consist of an axle brace extending from the mower mainframe running and below and attached to the right rear axle housing. The axle brace shall attach to the upper single post stow assembly which saddles on top of the axle brace and has an adjustable stow plate bolted to the upper single post stow assembly.			
6.159	The axle brace shall be of the square tube design. An axle brace shall be provided of not less than A500 material 4" x 4" square tube with a minimum 1/4" wall. The tube shall attach to the mower mainframe extending below & attach to the right rear axle.			
6.160	The upper stow assembly shall be constructed of 1/4" x 4" x 4" square tubing saddle mounted to axle brace extending above and behind the right rear axle.			
6.161	The adjustable stow plate shall be attached to upper stow assembly and shall be adjustable up or down and side to side in 3" increments. The stow shall contact the outer boom and shall not be more than 27" above the axle center line and not more than 39" behind the axle center line. (VENDOR REQUIREMENT) Vendor shall state the stow dimension above and behind axle center line.			
6.162	FLAIL HEAD BOOM DIMENSIONS: (Specify dimensions from tractor center line, dimensions may vary somewhat due to tire combinations.)	C	D	E
6.163	Reach Out 15.7 feet			
6.164	Reach Down 8.0 feet			
6.165	Reach Up 12.1 feet			
6.166	Reach In 6.6 feet			
6.167	SAFETY and TESTING (Rotary Head)	C	D	E
6.168	Shall meet the following industry standards: SAE: J232, J284, J990, J1065. ANSI/ASAE- 201.4, S203.13, S205.2, S279.12, S350, EP363.1, S483, S493. ASTM: A370. (VENDOR REQUIREMENT) Submit compliance report signed by a registered Professional Engineer (PE).			
6.169	CUTTING HEAD:	C	D	E
6.170	Shall be constructed of 110,000 PSI yield Domex® steel 1/8" deck and 1/4" thick side walls and (4) four trapezoidal formed 50,000 PSI Domex steel reinforcements. Top to be continuously welded for strength and eliminate debris from collecting under reinforcements. (VENDOR REQUIREMENT) Vendor shall indicate manufacturer's material, PSI, and type of welding.			
6.171	Shall have full length replaceable abrasion resistant skid shoes.			
6.172	Rubber safety shield shall be bolted to back side of deck.			
6.173	Safety shield shall operate hydraulically from operator's position and shall extend below the cutting plane. Safety door shall be constructed of 100,000 PSI Steel and meets all ANSI / SAE tests for rotary mowers. (VENDOR REQUIREMENT) Vendor shall indicate door protection type and maximum hydraulic pressure required to maintain door placement.			
6.174	Head shall have 60" of actual cut.			

6.175	SPINDLE:	C	D	E
6.176	Spindle shall be (1) one piece forged and heat treated with integral 7 1/4" O.D. drive hub. (Specifically excluding multi-piece shafts and direct drive spindle assemblies).			
6.177	VENDOR REQUIREMENT: Vendor to provide line drawing of spindle indicating overall length, diameter of cutting assembly attachment, and material used, including material yield strength.			
6.178	Spindle shall be attached to hydraulic motor by a flexible coupler and dust cover. (Specifically excluding direct drive motor/spindle assembly's) VENDOR REQUIREMENT: Vendor shall describe spindle motor attachment.			
6.179	Spindle assembly shall have minimum torsional shear capacity of 4,174 ft-lb torque, 231,000 PSI yield rotational strength and distribute load over 169 sq. inch area. VENDOR REQUIREMENT: Vendor shall provide size of attachment, number, grade, and size of bolts used to attach.			
6.180	Spindle shall have stationary wire wrap protection. Wire wraps shall be a minimum of 4 3/8" x 4 3/4", 3/8" thick. The wraps will also act as reinforcements for spindle housing. Wraps shall be not less than 1/16" from the drive spindle. The top of spindle housing shall have 2" x 3 1/2", 3/8" thick welded reinforcements. VENDOR REQUIREMENT: Vendor shall describe wire wraps.			
6.181	Spindle shall be mounted in sealed, double tapered roller bearing, grease reservoir with an O-ring plug and port to drain old grease. Assembly shall be filled with synthetic grease. (Specifically excluding barrel and spherical bearings). VENDOR REQUIREMENT: Vendor to indicate manufacture and type of bearing.			
6.182	Spindle shall rotate 19,000 FPM blade tip speed at rated (2,300) tractor RPM. VENDOR REQUIREMENT: Vendor shall indicate speed.			
6.183	Spindle drive area shall be enclosed and fully protected from outside debris entering into the drive coupler.			
6.184	KNIFE CARRIER:	C	D	E
6.185	Dish shall be one piece, dynamically balanced (per ISO quality G2.5 spec), formed 40° angle outer edge extending 3 1/2" beyond bend radius, 37 9/16" diameter x 1/2" thick 80,000 PSI yield steel and attached by (6) six 5/8" x 1 3/4", grade 8 bolts. (VENDOR REQUIREMENT) Vendor shall list any deviation to the above.			
6.186	Dish shall have no structural welds.			
6.187	Dish assembly shall accommodate 2 standard or optional 3, 4 or 6 suction type knives.			
6.188	Knives shall be attached by 1 3/4" x 3 3/8" shouldered and keyed bolts, backed by T-1 spacers and hex lock nuts.			
6.189	Minimum clearance shall be 9" between deck and knife edge.			
6.190	ROTARY HEAD BOOM DIMENSIONS: (Specify dimensions from tractor center line, dimensions may vary somewhat due to tire combinations.) TWICE???	C	D	E
6.191	Reach Out 14.4 feet			
6.192	Reach Down 7.4 feet			
6.193	Reach Up 11.3 feet			
6.194	Reach In 6.3 feet			
6.195	TOTAL COST TO THE COUNTY (EACH) for ENTIRE PACKAGED UNIT: Including Standard Warranty: \$ _____ (Include details of what the "Standard Warranty" will cover.)			
6.196	EXTENDED WARRANTY: Indicate additional costs, if any, for a 3-Year / 3000 Hours, Extended warranty - excluding normal wear items: \$ _____			

7.	BIDDER DIRECTIVES:	C	D	E
7.1	The County shall have a minimum of 90 calendar days from the date of the opening to accept bidder's offer.			
7.2	Standard payment terms are Net 30 after receipt of invoice, no exceptions.			
7.3	Response time/delivery: <input type="text"/> (After Receipt of Order.)			
7.4	Include an updated W-9 form completed with current company information and signature.			
8.	TOTAL PRICE INCLUSIONS, TAX EXEMPTION:	C	D	E
8.1	Shipping, Handling, and Delivery Fees – all MUST be included in total Bid Price.			
8.2	Do not include Federal Excise Tax or Sales and Use Taxes in your Bid Response, as state law exempts the County from these taxes.			
8.3	Whatever other miscellaneous fees should be included in your response.			
9.	STANDARD TERMS AND CONDITIONS:	C	D	E
9.1	Responses shall include all charges for packing, delivery, installation, etc., (unless otherwise specified) to the County Department identified in this Request for Bid.			
9.2	The Taney County Commission has the right to accept or reject any part or parts of all bids, to waive technicalities, and to accept the offer the County Commission considers the most advantageous to the County. Taney County reserves the right to award this bid on an item-by-item basis, or an “all or none” basis, whichever is in the best interest of the County.			
9.3	Bidders must use the bid forms provided for the purpose of submitting bids, must return the bid and bid sheets comprised in this bid – in same order as received, give the unit price, extended totals, and sign the bid.			
9.4	When products or materials of any particular producer or manufacturer are mentioned in our specifications, such products or materials are intended to be descriptive of type or quality and not restricted to those mentioned.			
9.5	The delivery date shall be stated in definite terms, unless otherwise indicated, as it may be taken into consideration in awarding the bid.			
9.6	The County Commission reserves the right to cancel all or any part of orders if delivery is not made or work is not started as guaranteed. In case of delay, the Contractor must notify the Purchasing Department.			
9.7	In case of default by the Contractor, the County of Taney will procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby.			
9.8	Failure to deliver as guaranteed may disqualify Bidder from future bidding.			
9.9	Prices must be as stated in units of quantity specified, and must be firm.			
9.10	The County of Taney, Missouri expressly denies responsibility for, or ownership of any item purchased until same is delivered and is accepted by the County.			

9.11	The County, from time to time, uses federal grant funds for the procurement of goods and services. Accordingly, the provider of goods and/or services shall comply with federal laws, rules and regulations applicable to the funds used by the County for said procurement, and contract clauses required by the federal government in such circumstances are incorporated herein by reference. These clauses can generally be found in the Federal Transit Administration's Best Practices Procurement Manual Appendix A. Any questions regarding the applicability of federal clauses to a particular bid should be directed to the Purchasing Department prior to bid opening.			
9.12	In the event of a discrepancy between a unit price and an extended line item price, the unit price shall govern.			
9.13	Should an audit of Contractors invoices – during the term of the Agreement, and any renewals thereof, indicate that Taney County has remitted payment on invoices that constitute an over-charging to the County above the pricing terms agreed to herein, the Contractor shall issue a refund check to the County for any over-charges within 30 days of being notified of the same.			

10. NO BID RESPONSE FORM:

NOTE: Complete and return this section only if you do not want to submit a Bid. If you do not wish to respond to this RFB, please fill this form out and return it to the Purchasing Department by mail, email, or fax.

Thank you...

RFB # 201602-331 Mower Tractor W/ Flail & Rotary Head

Business Name:	
Address:	
Telephone:	
Contact Person:	
Date:	
Reason(s) for not Bidding:	

AGREEMENT
for
(2) MOWER TRACTORS W/ FLAIL & ROTARY HEADS

THIS AGREEMENT dated the _____ day of _____ 201_ is made between Taney County, Missouri, a political subdivision of the State of Missouri, herein "County" and _____, herein "Contractor".

IN CONSIDERATION of the parties performance of the respective obligations contained herein, the parties agree as follows:

1. *Contract Documents* - This agreement shall consist of this Agreement for TWO (2) Mower Tractors w/ Flail & Rotary Heads; County of Taney Request for Bid number 201602-331, any applicable addenda; and the Contractor's Bid response executed by _____ on behalf of the Contractor. All such documents shall constitute the contract documents, which are attached hereto and incorporated herein by reference. Service or product data, specifications and literature submitted with bid response may be permanently maintained in the County Purchasing Office bid file for this bid if not attached. In the event of conflict between any of the foregoing documents, this Agreement, the Request For Bid, and any applicable addenda, shall prevail and control over the Contractor's Bid response. Below is a copy of items covered within this agreement, taken directly from the bid, with the exact bid pricing as submitted by "Contractor".

TOTAL COST TO THE COUNTY (Each): \$
APPROXIMATE DELIVERY DATE:

2. *Purchase* - The County agrees to purchase from the Contractor and the Contractor agrees to supply the County the items per the bid specifications as responded to on the bid response, and in conformity with these agreement documents for the prices set forth in the Contractor's bid response, as copied above and as ordered by Taney County. If certain unusual circumstances occur specific to delivery which require additional costs or charges beyond those prices listed within the bid response the County will consider the next lowest bid response. If/when unusual circumstances occur which impact pricing a phone call must be made from the Contractor to the County for permission to continue.

3. *Contract Duration* - This agreement shall commence on the date it is fully executed and terminate upon expiration of all applicable warranties, subject to the provisions for termination specified below. This agreement may only be extended by the order of the county subject to the pricing, and delivery clauses as agreed to, and offered by the contractor's winning bid response.

4. *Billing and Payment* - All billing shall be invoiced with specific department information and include bid number 201602-331 for reference. Billings may only include the prices listed in the Contractor's bid response. No additional fees or extra services not included in the bid response or taxes shall be included as additional charges in excess of the charges in the Contractor's bid response to the specifications. The County agrees to pay all correct statements within thirty days of receipt; Contractor agrees to honor any cash or prompt payment discounts offered in its bid response if county makes payment as provided therein. In the event of a billing dispute, the County reserves the right to withhold payment on the disputed amount; in the event the billing dispute is resolved in favor of the Contractor, the County agrees to pay interest at a rate of 9% per annum on disputed amounts withheld commencing from the last date that payment was due.

5. *Binding Effect* - This agreement shall be binding upon the parties hereto and their successors and assigns for so long as this agreement remains in full force and effect.

