



**State of West Virginia
Request For Quotation
Equipment**

Procurement Folder : 421908

Document Description : North Bend Rail Trail - Tractor, Front-End Loader, Mower

Procurement Type : Agency Purchase Order

Date Issued	Solicitation Closes	Solicitation No			Version	Phase
2018-02-07	2018-02-27 13:30:00	ARFQ	0310	DNR1800000036	1	Draft

SUBMIT RESPONSES TO:	VENDOR
BID RESPONSE DIVISION OF NATURAL RESOURCES PROPERTY & PROCUREMENT OFFICE 324 4TH AVE SOUTH CHARLESTON WV 25303-1228 US	Vendor Name, Address and Telephone BRIDGEPORT EQUIPMENT AND TOOL 1504 OAKHURST DRIVE CHARLESTON, WV 25314 304-659-2917

FOR INFORMATION CONTACT THE

James R Jones
 (304) 558-3397
 james.r.jones@wv.gov

Signature X *Ronald A. Gardner* FEIN # 34-1800484 DATE 2/27/2018
 All offers subject to all terms and conditions contained in this solicitation
 Date Printed : Feb 06, 2018 Solicitation Number : DNR1800000036 Page : 1 FORM ID : WV-PRC-ARFQ-001

ADDITIONAL INFORMATION:

Request for Quotation

The West Virginia Division of Natural Resources (WVDNR) is soliciting bids on behalf of the North Bend Rail Trail to establish a contract for the one-time purchase of a tractor with front-end loader and batwing mower attachments per the bid requirements and specifications as part of this solicitation.

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND RAIL TRAIL 202 NORTH BEND PARK RD CAIRO WV26337 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND STATE PARK 202 NORTH BEND PARK RD CAIRO WV 26337-9730 US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
1	Agricultural tractors	1.00000	EA	\$33,795.00	\$33,795.00

Commodity Code	Manufacturer	Model #	Specification
25101901	JOHN DEERE	5065E	SEE ENCLOSED SPEC. SHEET

Extended Description

Item 3.1.1 Kubota M6060, or equivalent

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND RAIL TRAIL 202 NORTH BEND PARK RD CAIRO WV26337 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND STATE PARK 202 NORTH BEND PARK RD CAIRO WV 26337-9730 US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
2	Front end loaders	1.00000	EA	\$9,689.00	\$9,689.00

Commodity Code	Manufacturer	Model #	Specification
22101501	JOHN DEERE	520M	AS PER SPECIFICATION

Extended Description

Item 3.1.2 Kubota LA154D, or equivalent

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND RAIL TRAIL 202 NORTH BEND PARK RD CAIRO WV26337 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND STATE PARK 202 NORTH BEND PARK RD CAIRO WV 26337-9730 US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
3	Mowers	1.00000	EA	\$11,219.00	\$11,219.00

Commodity Code	Manufacturer	Model #	Specification
21101701	WOODS	TBW-144	AS PER SPECIFICATION

Extended Description

Item 3.1.3 Woods BW-12, or equivalent

SCHEDULE OF EVENTS

Line	Event	Event Date
1	Technical Questions Deadline @ 9:00 AM EST	2018-02-15

DNR1800000036	Document Phase Draft	Document Description North Bend Rail Trail - Tractor, Front-End Loader, Mower	Page 4 of 4
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



**State of West Virginia
Request For Quotation
Equipment**

Procurement Folder : 421908

Document Description : Addendum No 1 - Tractor, Front-End Loader, Mower

Procurement Type : Agency Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version	Phase
2018-02-07	2018-02-27 13:30:00	ARFQ 0310 DNR1800000036	2	Draft

SUBMIT RESPONSES TO:	VENDOR
BID RESPONSE DIVISION OF NATURAL RESOURCES PROPERTY & PROCUREMENT OFFICE 324 4TH AVE SOUTH CHARLESTON WV 25303-1228 US	Vendor Name, Address and Telephone BRIDGEPORT EQUIPMENT AND TOOL 1504 OAKHURST DRIVE CHARLESTON, WV 25314 304-659-2917

FOR INFORMATION CONTACT THE

James R Jones
 (304) 558-3397
 james.r.jones@wv.gov

Signature X *Ronald A. Gardner* FEIN # 34-1800484 DATE 2/27/2018

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum No 1 is issued to publish and distribute the attached information to the Vendor Community.

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND RAIL TRAIL 202 NORTH BEND PARK RD		SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND STATE PARK 202 NORTH BEND PARK RD	
CAIRO	WV26337	CAIRO	WV 26337-9730
US		US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
1	Agricultural tractors	1.00000	EA	\$33,795.00	\$33,795.00

Commodity Code	Manufacturer	Model #	Specification
25101901	JOHN DEERE	5065E	SEE SPECIFICATIONS ENCLOSED

Extended Description

Item 3.1.1 Kubota M6060, or equivalent

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND RAIL TRAIL 202 NORTH BEND PARK RD		SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND STATE PARK 202 NORTH BEND PARK RD	
CAIRO	WV26337	CAIRO	WV 26337-9730
US		US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
2	Front end loaders	1.00000	EA	\$9,689.00	\$9,689.00

Commodity Code	Manufacturer	Model #	Specification
22101501	JOHN DEERE	520M	AS PER SPECIFICATION

Extended Description

Item 3.1.2 Kubota LA154D, or equivalent

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND RAIL TRAIL 202 NORTH BEND PARK RD		SUPERINTENDENT DIVISION OF NATURAL RESOURCES NORTH BEND STATE PARK 202 NORTH BEND PARK RD	
CAIRO	WV26337	CAIRO	WV 26337-9730
US		US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
3	Mowers	1.00000	EA	\$11,219.00	\$11,219.00

Commodity Code	Manufacturer	Model #	Specification
21101701	WOODS	TBW-144	AS PER SPECIFICATION

Extended Description
Item 3.1.3 Woods BW-12, or equivalent

SCHEDULE OF EVENTS		
Line	Event	Event Date
1	Technical Questions Deadline @ 9:00 AM EST	2018-02-15

DNR1800000036	Document Phase Draft	Document Description Addendum No 1 - Tractor, Front-End Loader, Mower	Page 4 of 4
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ADDITIONAL TERMS AND CONDITIONS

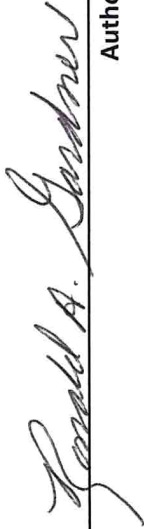
See attached document(s) for additional Terms and Conditions

West Virginia Division of Natural Resources
 North Bend Rail Trail - Purchase of Tractor, Delivered
EXHIBIT A: PRICING PAGE

ITEM	DESCRIPTION	Manufacturer / Model	Bid Cost	Qty	AMOUNT
3.1.1.1	2018 or newer Kubota M6060 Tractor with cab, or equivalent	2018 JOHN DEERE 5065E CAB TRA	33795.00	1	\$33,795.00
3.1.1.2	Kubota LA1154 Hydraulic Front End Loader, or equivalent	2018 JOHN DEERE 520M LOADER	9689.00	1	\$ 9,689.00
3.1.1.3	Woods Model BW-12 Pull Behind Batwing Mower or equivalent	2018 WOODS BW-144 BATWING	11219.00	1	\$11,219.00
Total Bid Amount:					\$54,703.00

BRIDGEPORT EQUIPMENT AND TOOL

Vendor



Authorized Vendor Signature

2/27/2018

Date

SOLICITATION NUMBER: ARFQ DNR1800000036
Addendum Number: No. 1

The purpose of this addendum is to modify the solicitation identified above to reflect the change (s) identified and described below.

Applicable Addendum Category:

Modify bid opening date and time

Modify specifications of product or service being sought

Attachment of vendor questions and responses

Attachment of pre-bid sign-in sheet

Correction of error

Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. To provide Vendor question and answers

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.

2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

Attachment A

Addendum No 1

West Virginia Division of Natural Resources

North Bend Rail Trail – Tractor

Technical Questions

Q1 - 3.1.2.4. Loader must come with eighty-four inch (84") four-in-one hydraulic material handling bucket installed? Would Kubota 80" four-in-one hydraulic material handling bucket be acceptable?

A1 – Replace –

3.1.2.4. Loader must come with eighty-four inch (84") four-in-one hydraulic

material handling bucket installed.

Revised –

3.1.2.4. Loader must come with a minimum seventy-two (72) inch four-in-one hydraulic

material handling bucket installed.

Q2 - Line #3.1.2.4 calls for 84" 4in1 bucket kubota requires 72" 4in 1 bucket for this tractor size.

A2 – Replace –

3.1.2.4. Loader must come with eighty-four inch (84") four-in-one hydraulic

material handling bucket installed.

Revised –

3.1.2.4. Loader must come with a minimum seventy-two (72) inch four-in-one hydraulic

material handling bucket installed.

Q3 - Line # 3.1.1.4 should tire sizes be specified? example 9.5-24 front 16.9-28 rear & do they want rear weight ballast? tires filled or rear wheel weights?

A3 – Replace –

3.1.1.4. Tractor must come equipped with agriculture type R1 tires

Revised

3.1.1.4. Tractor must come equipped with agriculture type R1 tires, filled with a non-corrosive fluid.

3.1.1.4.2

Rear tires must be 16.9-28.

3.1.1.4.1

Front tires must be 9.25-24.

APPENDUM ACKNOWLEDGEMENT FORM
 SOLICITATION NO.: DNR1800000036

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|----------------------------------------------------|------------------------------------------|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 5 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 4 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 3 |
| <input type="checkbox"/> Addendum No. 6 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 7 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 8 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information held between Vendor's representatives and added to the specifications by an official addendum is binding.

BRIDGEPORT EQUIPMENT AND TOOL

Company

Kimberly A. Barber
 Authorized Signature

2/27/2018

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

APPENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.:

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|------------------------------------------|------------------------------------------|
| <input type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 5 |
| <input type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 4 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 3 |
| <input type="checkbox"/> Addendum No. 6 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 7 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 10 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

BRIDGEPORT EQUIPMENT AND TOOL
Company

Ronald A. Anderson
Authorized Signature

2/27/2018

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

RONALD A. GARDNER - SALES

(Name, Title)

RONALD A. GARDNER - SALES

(Printed Name and Title)

1504 OAKHURST DRIVE, CHARLESTON, WV 25314

(Address)

304-659-2917 304-659-3276

(Phone Number) / (Fax Number)

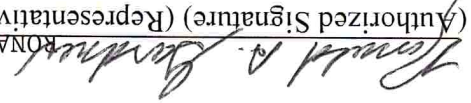
rgardner@bridgportequip.com

(email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

BRIDGEPORT EQUIPMENT AND TOOL

(Company)


RONALD A. GARDNER - SALES

(Authorized Signature) (Representative Name, Title)

RONALD A. GARDNER - SALES

(Printed Name and Title of Authorized Representative)

2/27/2018

(Date)

304-659-2917 304-659-3276

(Phone Number) (Fax Number)

PURCHASING AFFIDAVIT

STATE OF WEST VIRGINIA
Purchasing Division

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code § 5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code § 61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

BRIDGEPORT EQUIPMENT AND TOOL

Vendor's Name:

Authorized Signature: Donald A. Brundson

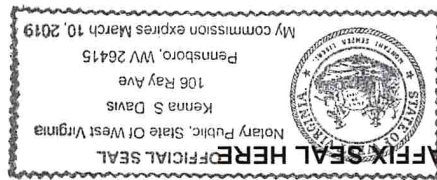
Date: 2/27/2018

State of WV

County of Ritchie, to-wit: _____

Taken, subscribed, and sworn to before me this 27 day of Feb, 2018

My Commission expires March 10, 2019



NOTARY PUBLIC Kenna S. Davis

State of West Virginia VENDOR PREFERENCE CERTIFICATE

WV-10
Approved / Revised
09/15/17

Certification and application is hereby made for Preference in accordance with *West Virginia Code*, §5A-3-37. (Does not apply to construction contracts). *West Virginia Code*, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the *West Virginia Code*. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

1. Bidder is an individual resident vendor and has resided continuously in West Virginia, or bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia, for four (4) years immediately preceding the date of this certification; **or**,
 Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; **or**,
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,

2. Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
 Application is made for 2.5% vendor preference for the reason checked:

Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; **or**,

3. **Application is made for 2.5% vendor preference for the reason checked:**
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,
 Application is made for 3.5% vendor preference who is a veteran for the reason checked:

Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
4. **Application is made for 5% vendor preference for the reason checked:**
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.
5. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.**
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) rescind the contract or purchase order; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.
 By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.

Bidder: BRIDGEPORT EQUIPMENT AND TOOL

Signed: *Ernest A. Andrews*
 Title: SALES

Date: 2/27/2018

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

MANUFACTURER MODEL	JOHN DEERE 5065E (2018)	KUBOTA M6060 (UTILITY COMPARISON)
ENGINE SPECIFICATIONS		
Description	John Deere PowerTech 3029	Kubota V3307-CR-TE4
Aspiration	Turbocharged	Turbocharged
Cylinders liners	Wet sleeved	---
Displacement	3 cylinders: 2.9 L 179 cu in.	3 cylinders: 2.7 L 165 cu in.
ENGINE PERFORMANCE		
Rated power	At 2100 rpm: 50.4 kW 67 hp	At 2300 rpm: 35 kW 47 hp
Rated PTO power (hp SAE)	At 2100 rpm: (OOS) 39.6 kW (OOS) 53 PTO hp At 2100 rpm: (Cab) 36.6 (Cab) 49 PTO hp	At 2300 rpm: 41 kW 55 hp
TRANSMISSION		
Type	Standard: 9F/3R SyncShuttle Optional: 12F/12R PowrReverser	---
Reverser	Optional	---
Clutch; wet/dry	Dry on 9F/3R SyncShuttle Wet on 12F/12R PowrReverser	---
Creeper	Option on 9F/3R transmission models	---
HYDRAULIC SYSTEM		
Type	Open Center	---

Pump rated output	Standard: 66.1 L/min 17.5 gpm	---
Available flow at a single rear SCV	43.4 L/min 11.5 gpm	---
Number of rear selective controls valves (SCVs)	Standard: 1 Optional: 2	---
Number of mid selective controls valves (SCVs)	Standard: 0 Optional: 2	---
Joystick SCV control	2WD: FIK MFWD: Standard	---
REAR HITCH		
Hitch draft control load sense type	Mechanical	---
Remote control valves available	Standard: 1 Optional: 2	---
Hitch category (SAE designation)	Category 2; convertible to 1	---
Maximum lift capacity behind lift points	OECD hitch lift cap at 24 behind: 3192 lb 1448 kg	---
Sensing type	Top link	---
REAR POWER TAKE-OFF (PTO)		
Type	Standard: Independent 540 Optional: Independent 540E (12x12)	Optional: 540/750 rpm
Engine rpm (at rated PTO speeds)	540 at 2100 rpm	540 rpm
PTO actuation	Mechanical (lever on 9x3) Electrohydraulic with wet clutch (12x12)	---
REAR AXLE		

Final drive type	Planetary	Mechanical
Differential controls	Mechanical (pedal)	---
Axle type	Flanged	---
Brakes, type and control	Hydraulic wet disc	---
STANDARD TIRES		
Front	2WD: 7.5-16 R1 MFWD: 9.5-24 R1	2WD: 7.50-16 MFWD: 12.4R2
Rear	2WD: 16.9-28 R1 MFWD: 16.9-28 R1	2WD: 14.9R28 MFWD: 14.9R28
Wheel tread range	---	2WD: front: 1435-1702 mm 56.5-67 in. rear: 1334-1854 mm 52.5-73 in. MFWD: front: 1435-1698 mm 56.5-66.8 in.
Turning radius with brakes	2WD: 3.1 m 10.2 ft MFWD: 3.94 m 12.9 ft	MFWD: 2.9 m 9.5 ft
Turning radius without brakes	2WD: 3.5 ft 11.5 ft, in. MFWD: 4.65 m 15.3 ft	2WD: 1.8 m 5.8 ft
OPERATOR STATION		
Rollover protective structure, OOS	---	---
Rigid - foldable - telescopic	Foldable, 2-post	---
Platform - flat/straddle	Straddle	---
Gearshift location - console/floor	Floor, on the side	---
Seat	Mechanical	---

Radio	Optional	---
DIMENSIONS		
Wheelbase	2WD and MFWD: 2050 mm 80.7 in.	2WD and MFWD: 2006 mm 79 in.
Overall length	3639 mm 143.3 in.	---
Approximate shipping weight, Open;Cab	MFWD: Open: 2685 kg 5919 lb Cab: 3040 kg 6702 lb	MFWD: 2570 kg 5650 lb
CAPACITIES		
Fuel tank	Standard: Open: 72.5 L 19 U.S. gal. Cab: 82 L 21 U.S. gal.	---
MISCELLANEOUS		
Country of manufacture	Pune, India	Italy

JOHN DEERE 520M NSL ON 5E FINAL TIER 4 (FT4) 3-CYL (5045E, 5055E, 5065E, 5075E)

TECHNICAL DRAWING

Technical drawing [View diagram](#)

TRACTOR

Model	5E Final Tier 4 (FT4) 3-Cyl (5045E, 5055E, 5065E, 5075E)
Front tire	320/85 R24 BKT (12.4 R24)
Rear tire	420/85 R30 BTK (16.9)
Wheelbase	81 in.
Pump capacity	11 gpm
Rated pressure	2828 psi

LOADER

Base weight	906.29 kg
Leveling configuration	Non-Self Leveling (NSL)
Bucket used	General Purpose 1850 mm 73 in.
Bucket weight	178 kg 392 lb
Lift capacity at full height	---
Measured at pivot (U)	1598.0 kg 3523.0 lb
Measured at 800 mm ahead of pivot (V)	1040.0 kg 2292.8 lb
Lift capacity at 59 in. (1500 mm)	---
Measured at pivot (W)	1828 kg 4030 lb

Measured at 800 mm ahead of pivot (X)	1349 kg 2974 lb
Boom breakout force	---
Measured at pivot (Y)	2105 kgf 4640.7 lbf
Measured at 800 mm ahead of pivot (Z)	1437 kgf 3168 lbf
Bucket rollback force capacity	---
At maximum height (VV)	1209 kgf 2665.4 lbf
At 59-in. (1500-mm) lift height (XX)	2151.0 kgf 4742.1 lbf
At ground-level line (ZZ)	2191.0 kgf 4830.3 lbf
Dimensions	---
Maximum lift height (A)	3352 mm 132 in.
At full height - bucket level(B)	3157 mm 124.3 in.
At full height - bucket dumped (C)	2520 mm 99.2 in.
Overall length (I+F), ft (m)	4.3 m 14.1 ft
Digging depth (H)	73 mm 2.9 in.
Reach	---
At maximum height (D)	1038.2 mm 40.9 in.
At ground level - bucket level (F)	2248 mm 88.5 in.
Bucket angle	---
Dump angle, degrees (E)	-55 degree (angle)

Rollback angle, degrees (G)	44 degree (angle)
Dump angle, ground	-144 degree (angle)
Cycle times	---
Loader raise, seconds	5.1 seconds
Loader lower, seconds	3.4 seconds
Bucket dump, seconds	4.3 seconds
Bucket rollback, seconds	2.6 seconds

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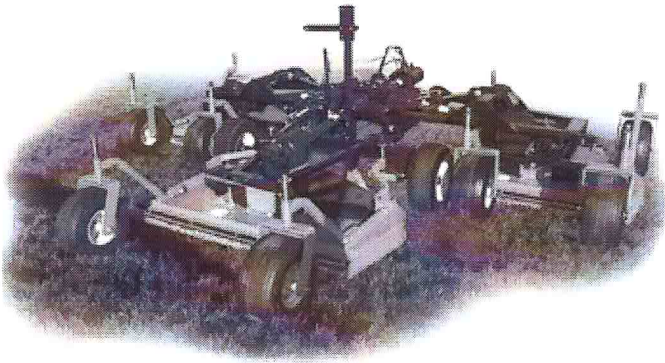
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Products

Finish Mowers | TBW144 Turf Batwing

- 12-foot cutting width
- Tractor HP range: 30-80 hp
- Carrier bearing on the input driveline provides support, making it easier to attach and allowing for tighter turns
- Superior cutting capabilities combined with contoured wing decks, to let you quickly cut large, uneven areas of turf while maintaining quality
- Rounded front, tapered rear deck design allows mowing close to objects without damage



- Round skid rod adds strength to deck skirt and allows deck bottom to glide over roots and uneven turf
- Optional highway light kit and anti-scalp roller kits available
- Three-year spindle limited warranty
- Six-year gearbox limited warranty

Discover the premium cut quality that makes Woods the undisputed leader in finish mowers

Specifications

GENERAL

PTO Horsepower	30 - 60 hp
Cutting width	144"
Cutting height	1" - 5"
Wing deck cutting width	48.5"
Deck overlap	6.5"
Overall width	146"
Transport width	96"
Maximum overall length	173"
Transport length	158"
Horsepower required	30 - 80 hp
Splitter gearbox horsepower	100 hp
Deck gearbox horsepower	75 hp
Blade tip speed	18,000 fpm
Drive type	gearbox over v-belt
Input driveline	Cat 4 CV (constant velocity)
Wing drivelines	Cat 3
Transport tires	(2) 20.5 X 8-10
Caster wheel bearings	tapered roller bearings
Caster wheels	(10) 15 x 6-6 pneumatic
Deck thickness	8 gauge
Wing deck lift cylinders	3.5" x 10", single acting

Center deck lift cylinders	3" x 8" single acting
Trailer frame construction	.25" wall tubing
Hitch adjustment	floating clevis, multi-position
Blade spindles bearings	greaseable tapered roller
Blade dimensions	(9) .25" x 2-1/2"
Blade spindles	(9) cast-iron
Cutting height adjustment	spacer on caster
Belts	B-section, Kevlar®
Belt adjustment	spring loaded idler
Chain shielding	standard

Extras

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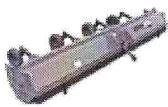
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LOADERS



BACKHOES



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