

**THE NEW JERSEY TURNPIKE AUTHORITY  
PROCUREMENT AND MATERIALS MANAGEMENT DEPARTMENT**

New Jersey Turnpike Administrative Offices

1 Turnpike Plaza

P.O. Box 5042

Woodbridge, New Jersey 07095-5042

Tel. - 732-750-5300 Ext. 8640

**REQUEST FOR BID**

**TITLE: RUBBER TIRE BACKHOE**

**BID NO: R-155302**

**DUE DATE: FEBRUARY 26, 2020**

**TIME: 11:00 AM**

**SUBMIT BIDS BEFORE THE DUE DATE AND TIME STATED ABOVE TO THE ABOVE ADDRESS**

**BIDDER INFORMATION (PLEASE PRINT)**

\_\_\_\_\_  
NAME OF BIDDING ENTITY

\_\_\_\_\_  
ADDRESS

\_\_\_\_\_  
CITY, STATE AND ZIP CODE

\_\_\_\_\_  
E-MAIL ADDRESS

\_\_\_\_\_  
REPRESENTATIVE TO CONTACT-NAME & TITLE

\_\_\_\_\_  
TELEPHONE NO.

\_\_\_\_\_  
FEDERAL TAX I.D. NO. or TAXPAYER I.D. NO.

\_\_\_\_\_  
FAX NO.

## **SECTION I**

### **A. INTRODUCTION**

The New Jersey Turnpike Authority (the “Authority”) was created by an act of the New Jersey Legislature in 1948, known as the New Jersey Turnpike Authority Act (as amended and supplemented, “Act”). The Act authorizes the Authority to construct, maintain, repair, and operate the New Jersey Turnpike, to collect tolls, and to issue Turnpike Revenue Bonds or Notes, subject to the approval of the Governor, payable from tolls and other revenues of the Authority. On May 27, 2003, the Act was amended to empower the Turnpike to assume all powers, rights, obligations and duties of the New Jersey Highway Authority (the “Highway Authority”), which owned and operated the Garden State Parkway and PNC Bank Arts Center. On July 9, 2003, the Authority assumed all powers, rights, obligations and duties of the Highway Authority. The Authority currently operates both the Garden State Parkway (“GSP”) and the New Jersey Turnpike (“Turnpike”) (both roads are collectively referred to herein as the (“Roadways”).

The Authority is governed by an eight-member Board of Commissioners (“Board”). The Governor of New Jersey appoints each of its members and has the statutory authority to overturn an action of the Board by vetoing any Board action within 10 days of receiving the minutes of the meeting. The Board authorizes awards of all public contracts over \$100,000, except in cases where it has delegated authority to the Executive Director.

This bid solicitation is being conducted pursuant to the Authority’s enabling statute as found in *N.J.S.A. 27:23-6.1* and Executive Order number 37 (Corzine 2006) and the regulations and policies of the Authority regarding public bid procurement.

## **BIDDER GUIDELINES/CHECKLIST**

BIDS THAT FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. The Request for Bid (“RFB”), including specifications and related bid documents (“Bids”) must be received at or before the due date and time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 1 Turnpike Plaza, Woodbridge, New Jersey 07095. **LATE BIDS WILL BE RETURNED UNOPENED. ELECTRONIC, EMAILED OR FACSIMILE BIDS WILL NOT BE ACCEPTED.** A public Bid Opening will take place at the New Jersey Turnpike Authority, Administration Building, 1 Turnpike Plaza, Woodbridge, New Jersey 07095.
2. **The entity submitting a Bid (“Bidder”) must provide one original and one copy of the Bid.** The Bid must include all price information. Bid prices shall include delivery of all items F.O.B. destination or as otherwise provided. Price quotes must be firm through issuance of contract.
3. All Bid prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications on the exception form attached.
4. All corrections, white-outs, erasures, re-striking of type, or other forms of alteration or the appearance of alteration, to unit and/or total prices must be initialed in ink by the Bidder.
5. **IF CHECKED, THIS RFB REQUIRES THE FOLLOWING MANDATORY DOCUMENT(S) BE SUBMITTED WITH THE BID. FAILURE TO COMPLY WILL RESULT IN REJECTION OF THE BID.**
  - (a) Bid Bond, Letter of Surety or a Cashier’s Check for 10% of the amount Bid ☒
  - (b) Ownership Disclosure Statement ☒
  - (c) Disclosure of Investment Activities in Iran ☒
  - (d) Vendor Disclosure Form ☒
6. **TO FACILITATE THE CONTRACT AWARD PROCESS, THE FOLLOWING DOCUMENTS SHOULD BE SUBMITTED WITH THE BID. IN THE EVENT THE DOCUMENTS ARE NOT SUBMITTED WITH THE BID, THEY SHALL BE SUBMITTED WITHIN THREE (3) BUSINESS DAYS FOLLOWING A VERBAL OR WRITTEN REQUEST FROM THE AUTHORITY.**
  - (a) Certification of Registration with the Secretary of State (only if non-NJ corporation) ☒
  - (b) Acknowledgement of requirement for Disclosure of Political Contributions (ELEC) ☒
  - (c) SBE/WBE/MBE Certificates and Form ☒
  - (d) Bidder must sign the Bid ☒
7. **SEE THE AUTHORITY’S INSTRUCTION TO BIDDERS (ATTACHED) FOR A COMPLETE LIST OF THE AUTHORITY’S STANDARD CONTRACT TERMS AND CONDITIONS, AS WELL AS OTHER FORMS THAT ARE REQUIRED PRIOR TO THE AWARD OF THE CONTRACT(S). THE RECOMMENDED LOW BIDDER(S) MUST SUBMIT THE FOLLOWING CHECKED DOCUMENTS PRIOR TO CONTRACT AWARD.**
  - (a) Mandatory Equal Employment Opportunity Language ☒
  - (b) Affirmative Action Information Sheet with Certificate or Form AA302 ☒
  - (c) State Contractor Political Contributions Compliance Public Law 2005, Chapter 51 & EO 117 ☒
  - (d) Notice to All Bidders of Set-Off for State Tax ☒
  - (e) Insurance Certificate ☒
  - (f) State of New Jersey Division of Business Registration Certificate ☒

## **SECTION II**

### **A. INTENTION**

1. **Sealed Bids (Paper Submission Only)** for **R-155302** must be received at the New Jersey Turnpike Authority Administrative Offices, 1 Turnpike Plaza, Woodbridge, New Jersey 07095-5042, by the due date and time stated on the cover page of this “RFB” at which time and place said Bid will be opened and read in public.
2. Bidders mailing Bids should allow for their normal mail delivery time to ensure timely receipt of the Public Bids. **Please be advised that using an overnight/next-day delivery service does not guarantee overnight/next-day deliveries to our location. The Authority will not be responsible for any Bid not being received by the required date and time.**
3. **It is the intention of the Authority to issue a Purchase Order for the procurement of ONE (1) RUBBER TIRE BACKHOE.**
4. Items purchased under this contract will be delivered as directed by the Authority.
5. Please contact Richard Bava with any questions regarding this procurement at 732-750-5300 X-8636 or bava@njta.com.

### **B. BID SHEET INSTRUCTIONS**

1. Bidders must follow all instructions in this RFB and in the Instructions to Bidders issued by the Authority, and any other documents issued by the Authority regarding this RFB (collectively, “Bid Documents”).
2. Bidders must examine the bid documents carefully before bidding and must ask the Director of Procurement and Materials Management Department (“PMM”) in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. If necessary, an interpretation or correction to the specifications in the form of an addendum shall be issued at least three (3) days prior to the bid opening by the Director of PMM to Bidders who have obtained the Bid Documents in accordance with *N.J.A.C. 19:9-2.2(a)(3)*. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the Bid opening date.**
3. The submission of the Bid is conclusive evidence that the Bidder is fully aware of the conditions, requirements, and details as stated in the Bid Documents. If the Bidder, prior to submitting its Bid, fails to notify the Director of PMM of the existence of an ambiguity or inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the Authority’s interpretation of such ambiguity or inconsistency.

- 4 All erasures, interpolations or other physical changes on the Bid form shall be signed or initialed by the Bidder. Bids containing any conditions, omissions, erasure's, alterations, or items not called for in this "RFB" or irregularities of any kind, may be rejected by the Authority, in its sole discretion.
- 5 The Bidder shall not attach conditions, limitations or provisos to its Bid.
- 6 **The Authority will accept Approved Equivalent items on this Bid.** If a Bidder is basing the RFB on items other than what is specified, and wishes the items proposed to be considered as an "Approved Equivalent", the Bidder shall enter a price on the Bid sheet then submit on the Exception Form in the exact format of the line item on the RFB contained herein, the item number, an item description including manufacturers name, model number, informational brochure(s), and packaging quantities of those items that the Bidder proposes to substitute.

#### **C. BASIS OF AWARD**

1. Bidders must supply a price for every item listed. **Bids not having a price for all listed items may be rejected.**
2. Bidders must quote only one price per line item. **If a Bidder quotes multiple prices per line item, the Bid may be rejected.**
3. The Authority will purchase amounts of any given item as needed, at the sole discretion of the Authority and shall not be bound by any quantities listed. The Authority reserves the right to make reasonable increases to line item quantities.
4. All items are to be Bid FOB Destination. All shipping, handling, and other costs should be considered in the Bid price(s).
5. The Authority is tax exempt from New Jersey Sales and Excise Tax.
6. Award will be made to the lowest responsible and responsive bidder for the total line items Bid.

#### **D. MISCELLANEOUS**

1. **ELECTRONIC PAYMENT: The Vendor will be required to accept payment(s) for goods or services via automatic deposit from the Authority. NO OTHER FORM OF PAYMENT WILL BE PROVIDED. See Exhibit M in the Instructions to Bidders on the Authority's website for the required electronic payment forms:**  
<http://www.njta.com/doing-business/goods-and-services>

## **BID QUOTATION SHEET**

ITEM	QTY	UNIT	DESCRIPTION	UNIT PRICE	TOTAL BID AMOUNT
1	1	EA	RUBBER TIRE BACKHOE, AS PER ATTACHED SPECIFICATIONS	\$	\$

**Number of days, after receipt of a Purchase Order, that all vehicles or equipment will be delivered to the Authority, fully completed and compliant with the Specifications:**

**DAYS**

**Award will be made to the lowest responsive and responsible bidder for the Total Bid Amount.**

**ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA EMAIL TO:**  
**bava@njta.com**

**PURSUANT TO N.J.A.C. 19:9-2.2 (a)(3), ADDENDA WILL BE DISTRIBUTED AND POSTED ON THE AUTHORITY'S WEBSITE AT LEAST THREE DAYS PRIOR TO THE BID OPENING.**

**NEW JERSEY TURNPIKE AUTHORITY**

Very truly yours,

**Dale Barnfield, Acting Director  
Procurement and Materials Management**

\_\_\_\_\_  
Name of Company

\_\_\_\_\_  
Authorized Signature of Bidder

**E. SIGNATURE PAGE**

1. **ADDENDA / INQUIRIES:** COMPLETE (if applicable) BEFORE SUBMITTING

BID:

Receipt of Addendum / Inquiries # \_\_\_\_\_ dated \_\_\_\_\_ is hereby acknowledged.

Receipt of Addendum / Inquiries # \_\_\_\_\_ dated \_\_\_\_\_ is hereby acknowledged.

☐

**CHECK BOX IF NO ADDENDA/INQUIRY ISSUED**

(All Addenda / Inquiries must be acknowledged as indicated above.)

2. **BID IRREVOCABLE:** This offer shall be irrevocable for ninety (90) working days after the date on which the Authority publicly opens this Bid except in those instances where an unsuccessful Bidder has filed a bid protest pursuant to *N.J.A.C. 19:9-2.12*. Upon notification of a protest, Bidders are required to hold their prices for an additional 90 days. All Bidders will be notified in writing of the action taken by the Authority.

3. **OFFER/CERTIFICATION:** The undersigned offers and agrees to furnish to the New Jersey Turnpike Authority the services and/or materials in compliance with all terms, conditions, specifications and addenda of the RFB, Bid Documents, and resulting contract. The undersigned further certifies understanding and compliance with the requirements of the standard terms and conditions as stated in the Instructions to Bidders included with the Bid Documents. The undersigned certifies that he or she executes this Bid with full authority so to do; and that all statements contained in this Bid and in this certification, are true and correct, and made with full knowledge that the Authority relies upon the truth of the statements contained herein and in any statements requested by the Authority showing evidence of qualifications in awarding the contract.

I certify that the foregoing statements made by me are true. I am aware that if any of the foregoing statements made by me are willfully false, I am subject to punishment.

4. **AUTHORIZED SIGNATURE:** \_\_\_\_\_

Print Name and Title: \_\_\_\_\_

Bidder: \_\_\_\_\_

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

City, State, Zip: \_\_\_\_\_

E-mail address: \_\_\_\_\_

Telephone #: \_\_\_\_\_ Fax: # \_\_\_\_\_

Date: \_\_\_\_\_

## **ADDITIONAL YEARS PURCHASING OPTION**

### **BID TITLE: RUBBER TIRE BACKHOE**

#### **BID NUMBER: R-155302**

3 - Year Open End Option: The Authority shall have the option for one (1) Model Year\* from the date of Contract, to order additional units conforming to the requirements of these specifications at the same price and under the same terms and conditions as those contained herein.

The Authority shall further have the option to purchase additional units conforming to these specifications for two (2) additional Model Years. Any unit(s) offered during the two (2) subsequent Model Years shall be of the model equivalent to that specified herein. In the latter instances, if there have been any price changes, the vendor shall submit a request to the Authority covering the aforesaid price changes, and shall include appropriate explanation and justification for any such price changes.

Any such request for price adjustment shall be in writing and directed to the Director, Procurement and Materials Management Department and shall be accompanied by the following evidence as a basis for your request;

1. The published price lists for equipment, which were in effect at the time of your original proposal.
2. The equivalent published price lists in effect at the time of your request.
3. Any additional evidence which the Authority deems necessary in the evaluation of your request.

The Authority shall, within its sole discretion, have the right to accept the price changes proposed by the vendor or if it so desires, re-bid the requirement.

\*Model Year is defined as the Model Year of the Manufacturer of the unit(s) offered by you in this Request for Quotation. In that instance where proposals are for equipment for which "Model Year" and "Production Cut-Off Dates" are undefined or non-existent, the "Model Year" is defined, for bid purposes, as one calendar year from the date on which the Contract is accepted. The last date on which orders may be placed for the Model currently in effect is\_\_\_\_\_.

\_\_\_\_\_/\_\_\_\_\_  
Name of Company and / Authorized Signature of Bidder



**SECTION III**

**NO RESPONSE BID SURVEY**

**BID REQUISITION NUMBER: R-155302**

**BID TITLE: RUBBER TIRE BACKHOE**

If you do not choose to respond to this Bid, please complete this form and email to Richard Bava at: bava@njta.com

Name of Company\_\_\_\_\_

Reason you did not respond (Check all that apply)

- \_\_\_\_\_ Cannot supply product or service
- \_\_\_\_\_ Cannot meet technical specifications
- \_\_\_\_\_ Cannot meet delivery specifications
- \_\_\_\_\_ Cannot meet legal requirements  
(i.e. Bid/performance/security/insurance, etc.)
- \_\_\_\_\_ Cannot provide a competitive price now
- \_\_\_\_\_ Interested in receiving specifications for informational purposes only
- \_\_\_\_\_ Insufficient lead time to respond
- \_\_\_\_\_ Other:(please be specific)

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Do you wish to remain on our mailing list?

\_\_\_\_\_Yes                      \_\_\_\_\_No

Additional comments: \_\_\_\_\_

Signed :(optional)\_\_\_\_\_

Company:\_\_\_\_\_

**NEW JERSEY TURNPIKE AUTHORITY**  
**GENERAL INSTRUCTIONS AND SPECIFICATIONS FOR:**

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QUANTITY: 1

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DESCRIPTION: RUBBER TIRE BACKHOE AND ATTACHMENTS

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SPECIFICATIONS: RTB-2020: RUBBER TIRE BACKHOE

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COMPLIANCE WITH RULES AND REGULATIONS: The unit and associated equipment furnished must comply with all Federal and State Motor Vehicle Safety Laws and Regulations and shall be capable of passing the New Jersey State Motor Vehicle Inspection Laws, where applicable.

ENERGY STAR REQUIREMENTS: If applicable for items specified in the bid package, the vendor must provide products that earn Energy Star Certification and meet the Energy Star specifications for energy efficiency. The vendor is encouraged to visit [energystar.gov](http://energystar.gov) for complete product specifications and updated lists of qualifying products. The Energy Star label must also be affixed to each delivered item. The bidder's signature on the signature page certifies that items so indicated that have earned Energy Star and meet the Energy Star specifications or other standards for energy efficiency will be supplied.

ERRORS AND OMISSIONS: Inadvertent omissions or errors in the attached specifications must be brought to the attention of the New Jersey Turnpike Authority's Director of Procurement and Materials Management at 732-750-5300 before bid submission date. If, with knowledge of such error or omission and prior to the correction thereof, the bidder proceeds with any work affected hereby, they shall do so at their own risk and the work so done shall not be considered as work done under and in performance of this Agreement unless and until approved and accepted.

QUESTIONS: Questions, which arise before or during the preparation of the unit, shall be addressed in writing via e-mail from the vendor to Dale Barnfield (Acting Director of Procurement and Materials Management) at [dbarnfield@njta.com](mailto:dbarnfield@njta.com) at the New Jersey Turnpike Authority on a not to delay basis.

DELIVERY DATE: All bidders **must** list on their "Bid Quotation Sheet" in the space specified the number of days (e.g. 120, 150 ,180, etc. after receipt of purchase order) that all vehicles or equipment will be delivered to the Authority fully completed and fully compliant with the specifications. A **specific** number of days **must** be listed. Under **no** circumstances shall bidders give approximate dates or ranges of dates to deliver such as: 210 days to 240 days. **FAILURE TO FOLLOW THESE GUIDELINES MAY RESULT IN REJECTION OF BID.**

**CONFIRMATION OF ORDER:** Once the Vendor receives the purchase order via email from the Authority's representative, the Vendor shall have a maximum of thirty (30) days to **verify in writing** to the Authority that the vehicles or equipment have been placed on order with the manufacturer of said vehicle (s) or equipment. **FAILURE TO FOLLOW THESE GUIDELINES MAY RESULT IN REJECTION OF PURCHASE ORDER AND AWARD TO THE NEXT LOWEST RESPONSIBLE BIDDER.**

**DELIVERY INSTRUCTIONS:**

Vendor must contact Peter Perperas (Project Supervisor) at 732-750-5300 ext. 8647 for authorization to schedule date and time prior to delivery. Deliveries shall be made to:

**New Jersey Turnpike Authority  
District 4 Maintenance Facility  
Exit 8 NJ Turnpike and Route 33  
Hightstown, NJ 08520**

- A. Vendor shall be responsible for all delivery, shipping and pick-up expenses.
- B. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to Authority delivery.
- C. The following administrative package **must** accompany all deliveries:
  - **Certificate of Origin:** All New Jersey Manufacturers, Dealers, and/or Distributors **must** stamp the C.O. "Sales Tax Satisfied". The C.O. shall be made out to New Jersey Turnpike Authority, P.O. Box 5042, Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
  - **Out of Country Certificates of Origin shall not be acceptable. Awarded vendors outside the United States must use their United States Distributor to fill out Certificates of Origin. NO EXCEPTIONS**
  - **Invoice:** purchase order number must be displayed on vendors invoice. Invoice shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
  - Warranty forms properly executed.
  - Four (4) keys for each vehicle shall be furnished. **NO EXCEPTIONS**
  - Four (4) keys, keyed alike for toolboxes or similar compartments shall be furnished for each vehicle. **NO EXCEPTIONS**

- It shall be the responsibility of the awarded vendor that all tolls, when applicable be paid when making delivery to the Authority.

D. All units shall be delivered with a minimum of a half tank of fuel.

E. **Deliveries made directly to the Authority from the manufacturer shall not be acceptable, unless manufacturer is awarded bidder.**

F. In the event the awarded bidder contracts a trucking/delivery company to deliver units, a representative from the awarded bidders company must be at the delivery site at time of delivery to the Authority. **NO EXCEPTIONS**

**WARRANTY:** All units delivered must be guaranteed to be free from defects in materials, design and workmanship for a minimum of one (1) year/1,500 hours and shall start from the time of written acceptance by the New Jersey Turnpike Authority. Warranty must include service availability from any manufacturers authorized dealer establishment most closely located to Parkway and Turnpike area. This repair facility may not be further than 100 miles from District 5 Telegraph Hill Central Maintenance Facility in Holmdel, NJ 07733 or District 4 Maintenance Facility located in Hightstown, NJ 08520. If warranty service is required, the vendor who supplied the unit shall provide for pickup, delivery and repair of unit at no charge to the New Jersey Turnpike Authority. All warranty periods shall start from date of written acceptance of the unit by the New Jersey Turnpike Authority.

**EXCEPTION SHEET:** Exception sheet is furnished with each set of specifications. Bidders making exceptions must note exceptions by item and indicate substitution in lieu and submit with bid, detailed specifications on the substitution. If the vendor is submitting an alternate product, component, feature or part to what is referenced in the specifications, the proposals **must** be accompanied by descriptive literature, marked and indicate the exact items to be furnished, with an engineering drawing of the same. **Failure to supply information requested may result in rejection of bid.** Where no exception is taken; the word "None" shall be neatly printed or typed on the exception sheet. **Failure to supply information and/or failure to complete the bidder's exception spaces in the prescribed manner may disqualify bid. It shall be understood that if no exception is taken, the vendor shall supply all material exactly as specified. No substitution will be permitted after receipt of bids.**

**APPROVED EQUIVALENT:** A bid substitution for a specified item brand and/or model that meets the required quality and performance standards of the original brand; substitutions will be determined to be an approved equivalent by the New Jersey Turnpike Authority.

**UNIT INFORMATION FORM:** Vendor shall complete the entire Unit Information Form. **Failure to complete form may result in rejection of bid.**

**MANUFACTURER'S PRODUCTION SHEET:** The vendor shall furnish one (1) copy of the actual Factory Production Sheet for each unit provided. The copies of the Factory Production Sheet shall be submitted at the time of the Authority's inspection of the unit.

**TRAINING:** It shall be the responsibility of the successful bidder to supply all safety, operational and service training to New Jersey Turnpike Authority personnel in accordance with all applicable ANSI and OSHA regulations. The safety and operational training shall consist of a complete review and understanding of the manufacturer's owner manual, along with actual operation of equipment. The instructor shall emphasize all proper uses for safe operation. The training shall include but not limited to all general troubleshooting of the hydraulic system and associated electronics. The instructor shall also emphasize the proper use of tools and test equipment along with general shop safety. The service seminars shall be similar to factory and manufacture type schools. The training shall be scheduled and take place at one (1) site, approximately (4) hours designated by the New Jersey Turnpike Authority.

**LABELS:** Plastic stick-on labels shall not be acceptable.

**ADVERTISEMENTS:** No **Dealer** advertisements shall appear on unit or any other related equipment.

**NOTICE TO BIDDERS:** Bidders shall **not** be allowed to use vehicles/equipment in any type of shows, conventions, brochures, etc. without prior written consent of the New Jersey Turnpike Authority. **NO EXCEPTIONS**

**ACCESSORIES:** All accessories shall be manufacturer installed when the item is available from the manufacturer.

**FACILITIES:** Bidders shall represent a manufacturer, which has in operation a factory adequate for the manufacture of the equipment, which it proposes to furnish. The manufacture(s) whose associated equipment or products are bid shall have a full-service warranty and parts supply facility that can guarantee availability of parts within 24 hours after telephone order and shall be located within a 100-mile radius of either District 4 Maintenance Facility (exit 8 on the NJ Turnpike) located in Hightstown, NJ 08520 or Telegraph Hill Central Maintenance Facility (exit 116 on the GSP) located in Holmdel, NJ 07733. The bidder shall submit the locations, names and telephone numbers of people who are authorized to service the equipment or who can be reached for emergency service.

Location\_\_\_\_\_

Phone #\_\_\_\_\_

Contact\_\_\_\_\_

Name & Title

**SPECIFICATIONS: RTB-2020  
RUBBER TIRE BACKHOE**

**BIDDER'S INSTRUCTIONS**

**IT SHALL BE THE BIDDER'S RESPONSIBILITY TO CAREFULLY EXAMINE EACH ITEM OF THE SPECIFICATION. BIDDERS MUST INDICATE WHETHER THEY COMPLY OR NON-COMPLY FOR EACH LINE ITEM IN THE SPECIFICATION. FAILURE TO PROVIDE A COMPLETED BID MAY CAUSE REJECTION OF BID. ALL NON-COMPLY RESPONSES AND/OR BIDDERS PROPOSED "APPROVED EQUIVALENTS" MUST BE FULLY EXPLAINED ON EXCEPTION FORM, NOTING SECTION AND ITEM. FAILURE TO EXPLAIN NON-COMPLY RESPONSES OR FAILURE TO SUPPLY DETAILED LITERATURE/BROCHURES ON THE BIDDERS PROPOSED "APPROVED EQUIVALENTS" MAY CAUSE REJECTION OF BID. WHERE "MINIMUM/MAXIMUM" IS SPECIFIED, BIDDERS MUST PROPOSE AT LEAST THE MINIMUM/MAXIMUM SIZES OR THE BID MAY BE REJECTED.**

	<b>COMPLY</b>	
	<b>YES</b>	<b>NO</b>
<b>GENERAL:</b>		
A. 2020 or new current model 4-wheel drive, four-cylinder turbo-charged diesel engine, rubber tire backhoe loader and attachments.		
B. The unit shall be a John Deere 410L Model or an Authority approved equivalent.		
C. The complete unit shall be new and of the latest design and be in current production at the time of the submission of bid.		
D. All standard and optional equipment shall be Original Equipment Manufacturer (OEM) items, when available. <b>NO EXCEPTIONS</b>		
E. Bidders must submit with their bid detailed specifications, and pictures of their complete unit and attachments being bid. <b>NO EXCEPTIONS</b>		
<b>ENGINE:</b>		
A. Four-cylinder, turbo-charged isolation mounted diesel engine.		
B. Engine shall be certified to EPA Final Tier 4/EU Stage IV emissions.		
C. Engine design shall have individually replaceable wet-sleeve liners.		
D. 4.5-liter, 275 cubic inch displacement minimum.		
E. Rated peak power: 110 horsepower minimum at 2,244 rpm's.		
F. 330 lb.-ft. net torque @ 1,400 rpm's.		
G. Daily check points shall be performed from ground level.		
H. Serpentine belt with automatic belt tensioner.		
I. Engine air cleaner shall be dry type, dual element with evacuator valve, restriction sensor and in-cab restriction warning light.		
J. One-piece tilt hood for easy access without having to remove engine side shields.		

	COMPLY	
	YES	NO
K. Engine shall have a primary fuel filter with water separator and secondary fuel filter.		
L. Engine shall be equipped with a water-in-fuel sensor.		
<b>COOLING:</b>		
A. Engine coolant shall be rated at -40°F.		
B. Oil-to-water engine cooler shall be provided.		
C. Coolant recover tank shall be provided.		
D. Unit shall be equipped with an electronically controlled, variable rate suction type fan with guard for reduced horsepower draw, reduced fuel consumption and quieter operation.		
E. Hydraulic and transmission circuits shall be water cooled.		
<b>POWER TRAIN:</b>		
A. Transmission shall be hydraulically actuated powershift with torque converter: <ul style="list-style-type: none"> <li>• Transport speed: 25 mph.</li> <li>• Fully synchronized five (5) forward (automatically shifts between 4<sup>th</sup> and 5<sup>th</sup> gears).</li> <li>• Three (3) reverse speeds.</li> </ul>		
B. Five (5) speed auto-shift transmission.		
C. Axle shall be mechanical-front-wheel-drive with traction control limited-slip differential with electric on/off control.		
D. Axle shall be sealed with no breather.		
E. Mechanical-front-wheel-drive can be engaged on the fly during operation.		
F. The machine shall disengage mechanical-front-wheel-drive in 4 <sup>th</sup> gear to allow for longer life of tires and drive train reducing fuel consumption.		
G. Machine shall automatically engage mechanical-front-wheel-drive when brakes are applied for four-wheel braking.		
H. Transmission shall be isolation mounted to the mainframe.		
I. Rear axle shall have a differential lock, electric foot actuated.		
J. Operator can enable a differential lock protection in the monitor, which shall not allow the differential lock to be engaged above 1,000 rpms to prevent damage to components.		
K. A single electric transmission control lever shall have gear selection fully integrated in the lever as well as forward, neutral, and reverse (FNR power shuttle).		
L. Transmission oil cooler shall be provided.		
M. Backhoe shall have hydrostatic power steering with emergency manual mode.		

	COMPLY	
	YES	NO
N. The machine shall have a dial throttle allowing the operator to ride the machine on cruise control. Upon engagement of the brake pedal the engine rpm's return to idle.		
O. The final drives shall be heavy-duty outboard planetary distributing loads over four gears sealed in oil bath.		
P. The front axle shall have remote grease bank for easy access.		
Q. The rear axle bearings shall be self-lubricating and shall not need to be greased.		
R. The service brakes shall be inboard, wet multiple disc, self-adjusting, self-equalizing and hydraulically actuated.		
S. The parking brake shall be independent of the service brakes, spring applied, hydraulically released wet multiple disc, and self-adjusting.		
T. Parking brake when applied shall disengage the transmission and shall not be able to be driven through and will automatically apply when engine is shut off.		
<b>HYDRAULIC SYSTEM:</b>		
A. Hydraulic system shall be a closed center system.		
B. The hydraulic fittings shall have "O" ring face seal connectors securing a tight leak-free seal.		
C. The hydraulic cooler shall have an independent reservoir for continuous running of attachments at high ambient outside air temperatures.		
D. Hydraulic filter shall be vertically mounted with a spin-on type design for easy installation.		
E. Machine shall be equipped with an "auto idler" to lower rpm's when hydraulics is not active to conserve fuel.		
F. Machine shall be equipped with "economy" mode with dual features that can be applied to backhoe or loader functions separately or together for improved fuel economy.		
G. An automatic bucket return-to-dig control shall be supplied.		
H. Hydraulic pump shall be of sufficient capacity to effectively run all operations of backhoe and loader requirements.		
<b>ELECTRICAL:</b>		
A. Backhoe shall have a 12-volt system.		
B. Dual maintenance free batteries, 1900 CCA.		
C. 120-amp alternator.		
D. Machine shall have blade type multi-fused circuits.		
E. Cab shall be pre-wired for a rotating warning light and radio-ready.		
F. Unit shall be equipped with a total of ten (10) Led lights as follows: <ul style="list-style-type: none"> <li>• Four (4) front driving/working lights</li> <li>• Four (4) rear lights</li> <li>• Two (2) side docking lights</li> </ul>		



	COMPLY	
	YES	NO
Note: The front lights shall be adjustable and the bulbs shall be no less than 32,500 candlepower each.		
G. Unit shall be equipped with two (2) front and two (2) rear turn signal/flashing and two (2) rear stop and taillights and two (2) reflectors.		
H. Unit shall come equipped with a five (5) year telematic system that provides fleet management, logistics, and remote diagnostic capabilities.		
I. Warning light: One (1) SAE Class I Certified Whelen Model R416AF Rota-Beam LED or Authority approved equivalent rotating amber warning beacon. Light shall be mounted in center of cab roof. A rocker type backlit switch shall be installed in cab for operating the light.		
J. Lights and reflectors shall comply with all Federal and New Jersey State D.O.T. Regulations.		
<b>OPERATOR STATION:</b>		
A. Insulated operator cab designed and certified ROPS/FOPS.		
B. Cab: <ul style="list-style-type: none"> <li>• Mechanical-suspension cloth swivel seat (with retractable seatbelt-digital warning) with lumbar adjustment and armrests.</li> <li>• Headliner.</li> <li>• Dome light.</li> <li>• Left/right cab doors.</li> <li>• Tinted safety glass.</li> <li>• Windshield wipers (1-front &amp; 1-rear).</li> <li>• Front windshield washer.</li> <li>• Fresh-air intake.</li> <li>• Heater/defroster/air conditioning.</li> <li>• Coat hook.</li> <li>• Built-in beverage holder.</li> <li>• Operator manual storage compartment.</li> <li>• Interior rearview mirror.</li> <li>• Two 12-volt outlets.</li> <li>• All other manufacturers standard items not listed herein shall be provided.</li> </ul>		
C. Am/FM stereo, Bluetooth, GPS.		
D. Provide in cab D.O.T. approved safety reflector kit.		
E. Provide in cab 2½ lb. dry chemical “UL” listed fire extinguisher suitable for ABC class fires.		
F. Access to cab: <ul style="list-style-type: none"> <li>• Left/right sides.</li> <li>• Wide/rigid self-cleaning steps.</li> <li>• Ergonomically located hand holds.</li> </ul>		
G. Illuminated electronic gauges with audible warning:		

	COMPLY	
	YES	NO
<ul style="list-style-type: none"> <li>• Engine coolant temperature.</li> <li>• Transmission oil temperature.</li> <li>• Fuel level.</li> </ul>		
<p>H. Monitor system shall have the following audible and visual warnings:</p> <ul style="list-style-type: none"> <li>• Engine air restriction.</li> <li>• Low alternator voltage.</li> <li>• Engine oil pressure and temperature.</li> <li>• Hydraulic filter restriction.</li> <li>• Parking brake on/off.</li> <li>• After treatment temperature.</li> <li>• Transmission oil temperature.</li> <li>• Fuel.</li> <li>• Hour meter.</li> <li>• Low brake pressure.</li> </ul>		
I. Keyless start shall have an electric fuel shut-off and ability to have auto shutdown setup in monitor.		
J. Machine shall be equipped with a sealed switch module for easy location of controls on the right-hand console and increased durability.		
K. The monitor shall have a multi-language (English, French, Spanish) digital monitor for diagnostics (including diagnostic messages and fault code readings), calibrations and machine information.		
L. Machine manufacturer shall provide a factory installed onboard security system for total machine integration. System shall have the ability to accommodate at least ten (10) operator codes.		
<p>M. Unit shall have a digital display:</p> <ul style="list-style-type: none"> <li>• Engine rpm's.</li> <li>• Engine hours.</li> <li>• System voltage.</li> </ul>		
<b>PROTECTION:</b>		
A. Vandal protection shall cover the instrument panel. The engine hood, toolbox, hydraulic reservoir, and fuel filter shall be lockable.		
<b>FUEL/DEF TANKS:</b>		
A. Fuel tank capacity: 34 gallons minimum.		
B. DEF tank capacity: 3.5 gallons minimum.		
C. Both tanks shall be accessible from the ground and lockable.		
<b>OVERALL UNIT:</b>		
A. Operating weight: 19,500 lbs.		
B. Mainframe shall be one-piece unitized construction for maximum strength.		
C. Four (4) built-in tie downs, two (2) in front and two (2) in rear for safe transport.		

	COMPLY	
	YES	NO
D. Side plate thickness on loader boom, backhoe boom, and mainframe shall be 4.5 mil or greater.		
E. Tires: <ul style="list-style-type: none"> <li>• Front: 12.5-18.</li> <li>• Rear: 211 x 24.</li> </ul>		
F. Replaceable bolt-on rubber bumpers shall be provided to protect the grille frame for sever loading applications.		
<b>BACKHOE:</b>		
A. Digging depth: 19'8".		
B. Reach from center of rear axle: 27'.		
C. Loading height truck: 15'6".		
D. Backhoe shall be equipped with a heavy lift circuit allowing the operator to hit a switch in the cab and increase hydraulic capacity 15% for an unlimited period of time.		
E. Dipper boom lift @ 60° @ 2' above ground: 12,800 lbs.		
F. Dipper boom lift @ 60° @ 12' above ground: 5,150 lbs.		
G. Dipper boom lift @ 8' above ground: 8,450 lbs.		
H. Lift capacity @ ground level: 16,550 lbs.		
I. Lift capacity @ 6' below ground: 5,840 lbs.		
J. Swing lock pin shall be stored in operator's station.		
K. Stabilizer shall have reversible pads.		
L. Backhoe boom design shall be a curved design, hour glass shape for maximum strength and optimum visibility.		
M. Digging force in heavy lift mode: 17,350 lbs.		
N. Digging force with standard backhoe bucket cylinder: 15,720 lbs.		
O. Backhoe shall be equipped with a rubber bumper-linkage style boom locks to keep backhoe from vibrating on the swing frame.		
P. Unit shall have pilot joystick controls with cab-mounted switch to flip control patterns.		
Q. Manual backhoe quick-coupler shall be provided.		
R. The machine shall be available with factory installed pilot backhoe controls with patter selection feature.		
S. Backhoe shall have factory installed 37" hydraulic thumb (manual thumbs shall not be acceptable).		
T. Provide 24" heavy-duty general-purpose bucket.		
<b>LOADER:</b>		
A. Lift capacity with 1.3 cubic yard bucket @ full height: 6,080 lbs.		
B. Dump clearance with bucket @ 45°: 8'10".		
C. Digging depth below ground, 1.3 cubic yard bucket: 6.2".		
D. Bucket breakout force: 9,800 lbs.		
E. Loader shall have a hydraulic self-leveling and bucket-leveling indicator.		

	<b>COMPLY</b>	
	<b>YES</b>	<b>NO</b>
F. Loader shall have divergent loader arms for excellent visibility to the bucket.		
G. A single lever with integrated proportional electrohydraulic control of auxiliary loader operation shall be provided from the factory for the auxiliary hydraulics. The lever shall also be equipped with a clutch disconnect, momentary mechanical-front-wheel-drive and be mechanical-front-wheel-drive on/off.		
H. The loader arms shall have a curved knee design for loading into the center of the truck bed.		
I. Loader shall have a single cylinder and linkages for tilt and curl on bucket.		
J. The loader shall have a non-removeable hinged loader boom service lock.		
K. A factory installed loader coupler shall be provided that shall fit Cat IT, older John Deere JRB, or current John Deere attachments.		
L. Bucket shall be a 1.3 cubic yard multi-purpose bucket with cutting edge.		
M. Quick coupler pallet forks with 48" tines shall be supplied.		
N. Machine shall be equipped with ride control.		
<b>PAINT:</b>		
A. DuPont Dulux Omaha Orange Enamel # 93-082 or Authority approved equivalent.		
B. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
<b>MANUALS:</b>		
A. The following manuals shall be supplied at time of delivery for <b><u>each</u></b> unit ordered: <ul style="list-style-type: none"> <li>• Operating: 2</li> <li>• Repair: 1</li> <li>• Maintenance: 1</li> <li>• Parts: 1</li> </ul>		

**UNIT INFORMATION FORM**

**(Must be submitted by vendor with bid documents)**

**RUBBER TIRE BACKHOE:**

YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

ENGINE MAKE: \_\_\_\_\_

CYLINDERS: \_\_\_\_\_

HP: \_\_\_\_\_

LITER: \_\_\_\_\_

FUEL TANK CAPACITY: \_\_\_\_\_ GALLONS

DEF TANK CAPACITY: \_\_\_\_\_ GALLONS

OVERALL WEIGHT: \_\_\_\_\_ LBS

TIRE SIZES FRONT/REAR: \_\_\_\_\_

SERVICING AGENCY: \_\_\_\_\_

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

TELEPHONE #: \_\_\_\_\_

CONTACT: \_\_\_\_\_

Name & Title

**BACKHOE:**

DIGGING DEPTH: \_\_\_\_\_ FT. \_\_\_\_\_ INCHES

**LOADER:**

LIFT CAPACITY W/1.3 CUBIC YARD BUCKET @ FULL HEIGHT: \_\_\_\_\_ LBS.

**WARNING LIGHT: (CAB-MOUNTED)**

YEAR: \_\_\_\_\_ MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

INSTALLER: \_\_\_\_\_

SERVICING AGENCY: \_\_\_\_\_

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

TELEPHONE #: \_\_\_\_\_

CONTACT: \_\_\_\_\_

Name & Title

[illegible]

Date \_\_\_\_\_