

TO RECEIVE A BID PACKAGE, BIDDER MAY EITHER DOWNLOAD THE BID FROM THE AUTHORITY'S WEBSITE AT <http://www.state.nj.us/turnpike/purchasing.html> OR REQUEST A BID BY COMPLETING THIS FORM AND FAXING IT TO THE NUMBER STATED BELOW FOR RECORD KEEPING PURPOSES. WE REQUEST THAT THE BIDDER COMPLETE THIS FORM AND RETURN TO US, EVEN WHEN BIDDER IS DOWNLOADING THE BID. THIS IS THE ONLY NOTICE OF BIDDING FOR THE FOLLOWING GOODS / SERVICES YOU WILL RECEIVE.

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

P.O. Box 5042
581 Main Street
Woodbridge, New Jersey 07095-5042
Tel. - 732-750-5300
Fax - 732-750-5399

REQUEST FOR BIDS

TITLE: BACKHOE WHEEL LOADER

BID NO: R-98538

DUE DATE: March 19, 2013

TIME: 2:00 PM

SUBMIT BIDS BEFORE THE DUE DATE AND TIME 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

WE HAVE DOWNLOADED THE BID FROM THE AUTHORITY WEBSITE

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FAX NO.

BUSINESS CORPORATION _____ PARTNERSHIP _____ INDIVIDUAL

OTHER (SPECIFY): _____

BIDDER GUIDELINES/CHECKLIST

PURSUANT TO N.J.S.A. 27:23-6.1 AND N.J.A.C. 19:9-2.1 et seq. BID PROPOSALS WHICH FAIL TO CONFORM TO THE FOLLOWING REQUIREMENTS MAY BE REJECTED:

1. Bid proposals must be received at or before the public opening time stated on the cover page at the following place: New Jersey Turnpike Authority, Administration Building, 581 Main Street, Woodbridge, New Jersey 07095. Telephone or Facsimile proposals will not be accepted. The accompanying self-addressed envelope should contain or be attached to the bid proposal.
2. The bid proposal must include all price information. Proposal 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 proposal prices must be typed or written in ink. Quote the specified unit of measure. If bidding an alternate, provide detailed specifications.
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. **See the Authority’s Instructions to Bidders (attached) for a complete list of the Authority’s standard contract Terms and Conditions, as well as REQUIRED FORMS that must be included with the bid proposal or the bid will be rejected.**
6. **Bidders shall include the following documents with their bid:**
 - (a) State of New Jersey Division of Revenue Business Registration Certificate(s)
 - (b) Certification of Registration with the Secretary of State (only if a foreign (non-NJ) corporation)
 - (c) Acknowledgement of Requirement for Disclosure of Political Contributions (ELEC)
 - (d) Public Works Contractor Registration Certificate(s) (if applicable)
 - (e) Affirmative Action Information Sheet with Certificate or Form AA302
 - (f) Signed Mandatory Equal Employment Opportunity Language
 - (g) SBE/WBE/MBE Certificates and Form
 - (h) Vendor Disclosure Form (EO129 - Location of Services)
 - (i) Notice of Set-Off for State Tax (P.L. 1999, c.159)
 - (j) Automobile Waiver
 - (k) Insurance Requirement
7. **This Request for Bids requires the following Mandatory Documents or the bid will be rejected:**

Stockholder/Partnership Disclosure Statement
8. Bidder must sign the Bid
9. 3-Year Open-End Option

REQUEST FOR BIDS
THIS IS NOT AN ORDER

Sealed Bid R-98538 will be received at the New Jersey Turnpike Authority Administrative Offices, 581 Main St., Woodbridge, New Jersey, as stated on the cover page at which time and place said bid will be publicly opened and read. Bidders mailing bids should allow for their normal mail delivery time to ensure timely receipt of their Public Bids. Please be advised that using 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.

INTENTION

It is the intention of the Authority to issue a Purchase Order for the purchase of **one (1) BACKHOE WHEEL LOADER WITH ACCESSORIES, AS PER ATTACHED SPECIFICATIONS**. Items purchased under this Contract will be delivered as directed by the Authority. Please contact Richard Bava with any questions regarding this procurement at 732-750-5300 X 8636.

BID SHEET INSTRUCTIONS

Prospective Bidders should follow all instructions in this Request for Bids and in the standard Instructions to Bidders issued by the Authority, and any other documents issued by the Authority in connection with this Request for Bids (collectively, "Bid Documents"). Prospective Bidders must examine the Bid Documents carefully before bidding and must ask the Director of Purchasing in writing for any interpretation or correction of any apparent ambiguity, inconsistency or apparent error therein. Any written request for interpretation or correction shall be directed to the Director of Purchasing. Written requests can be submitted by FAX at 732-750-5399. If necessary, an interpretation or correction shall be issued by the Director of Purchasing as an Addendum and FAXED to prospective Bidders who have obtained the Bid Documents. Upon the issuing of an Addendum, the content of the Addendum shall become part of the Bid Documents. **Requests for interpretation or correction shall be considered only if received at least 5 business days prior to the bid opening date.**

Only written interpretations or corrections issued by the Director of Purchasing by Addendum shall be binding.

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 Purchasing of the existence of an ambiguity, inconsistency in the Bid Documents, a Bid will conclusively be presumed to have been based upon the interpretation of such ambiguity or inconsistency. All erasures, interpolations or other physical changes on the Bid form

shall be signed or initialed by the bidder. Bids containing any conditions, omissions, erasures, alterations, or items not called for in this Request for Bids, or irregularities of any kind, may be rejected by the Authority, in its sole discretion, as being incomplete. The bidders shall not attach conditions, limitations or provisos to their Bid, except in cases where "Exceptions" are permitted.

The Authority will accept Approved Equivalent items on this bid. If a bidder is basing the proposal on items other than what is specified, and wishes the items he proposes to be considered as an "Approved Equivalent," the Bidder shall enter a price on the bid sheet then submit on the Exception Sheet in the exact format of the line item on the Request for Bids contained herein, the item number, an item description, including manufacturers name, model number, and packaging quantities of those Items which the Bidder proposes to substitute.

Bidders must quote only one price per line item. If a bidder quotes multiple prices per line item, the bid proposal may be rejected. All items are to be bid FOB Destination. All shipping, handling, and other costs should be considered in the bid price. 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. All items are to be bid FOB Destination. All shipping, handling, and other costs should be considered in the bid price.

Contract award will be made to the lowest, responsible bidder.

REQUEST FOR BIDS

ITEM	QUAN.	UNIT OF MEAS.	DESCRIPTION	UNIT PRICE	TOTAL BID PRICE
1	1	each	Backhoe wheel loader with accessories , as per attached Specifications.	\$	\$

Contract award will be made to the lowest, responsible bidder.

**ANY INQUIRIES CONCERNING THIS BID MUST BE SENT VIA FAX NO LATER THAN FIVE (5)
BUSINESS DAYS BEFORE BID OPENING**

DELIVERY DATE _____, to sites as specified in the bid specifications.
Discount Terms Based On Net 30 Days Only.

NEW JERSEY TURNPIKE AUTHORITY

AUTHORIZED SIGNATURE

Name of Company and / Authorized Signature of Bidder

SIGNATURE PAGE

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.)

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 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.

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.

AUTHORIZED SIGNATURE: _____

Print Name and Title: _____

Bidding Entity: _____

Address: _____

City, State, Zip: _____

Telephone #: _____ Fax: _____

Date: # _____

NEW JERSEY TURNPIKE AUTHORITY

NO RESPONSE BID SURVEY

BID REQUISITION NUMBER: R-98538

BID TITLE: BACKHOE WHEEL LOADER

If you do not choose to respond to this Bid, please complete the form below:

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 at this time
- Interested in receiving specifications for informational purposes only.
- Insufficient lead time to respond
- Other :(please be specific)

Do you wish to remain on our mailing list?

Yes No

Additional comments: _____

Signed :(optional) _____

Company: _____

ADDITIONAL YEARS PURCHASING OPTION, for R-98538

BACKHOE WHEEL LOADER

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 required 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 in the two subsequent Model Years, 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, Purchasing 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 is 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_____.

NEW JERSEY TURNPIKE AUTHORITY

GENERAL INSTRUCTIONS AND SPECIFICATIONS FOR: FOUR-WHEEL DRIVE BACKHOE WHEEL LOADER AND ACCESSORIES

Quantity	Description	Maximum Delivery Date
1	Four-Wheel Drive Backhoe Wheel Loader and Accessories	120 Days After Receipt of Order

SPECIFICATIONS: WLB-2013 BACKHOE WHEEL LOADER

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

ENERGY STAR REQUIREMENTS: If applicable for items specified in bid package, the vendor must provide products that earn ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency. The vendor is encouraged to visit 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 Purchasing at 732-750-5300 before bid submission date. If the bidder discovers any errors or omissions in the work undertaken and executed by them, they shall also immediately notify Peter Perperas (Project Supervisor) at 732-442-8600 ext. 2868 who shall promptly verify the same. 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.

PILOT MODEL: Questions, which arise before or during the preparation of the pilot model, shall be addressed in writing via e-mail from the vendor to Peter Perperas (Project Supervisor), perperas@turnpike.state.nj.us at the New Jersey Turnpike Authority on a not to delay basis. The awarded bidder shall make available one **fully completed** pilot model for inspection and approval by the Authority. The unit shall be transported (responsibility of the awarded vendor) to the NJTA Garden State Parkway Division's Telegraph Hill Maintenance Facility located at Garden State Parkway Exit 116 in Holmdel, NJ 07733.

DELIVERY INSTRUCTIONS:

- A. Vendor must contact Peter Perperas (Project Supervisor) at 732-442-8600 ext. 2868 for authorization to schedule date and time prior to delivery. Any work that needs to be completed including all pre-delivery preparation shall be done prior to delivery. **Deliveries shall be made to the NJTA Garden State Parkway Division Telegraph Hill Central Maintenance Facility located at GSP Exit 116 in Holmdel, NJ 07733.**
- B. Vendor shall be responsible for all delivery, shipping and pick-up expenses.
- C. All units must be pre-delivery serviced, completely assembled, operational, and cleaned prior to delivery.
- D. The following administrative package **must** accompany all deliveries:
- Certificate of Origin: stamped “Sales Tax Satisfied” and shall be made out to New Jersey Turnpike Authority, 581 Main St. Woodbridge, NJ 07095. Certificate of Origin shall have current date and be hand delivered to Peter Perperas after final acceptance of complete order.
 - 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 unit shall be furnished. **NO EXCEPTIONS**
 - Four (4) keys, keyed alike for toolboxes or similar compartments shall be furnished for each unit. **NO EXCEPTIONS**
 - Delivery of all units fully completed and fully compliant shall be made no later than one hundred twenty (120) days after receipt of Purchase Order.
 - In the event the vendor fails to timely deliver the units, the vendor shall pay the Authority liquidated damages in the amount of \$442.40 per unit for each calendar day (**No Exceptions for Liquidated Damages**) beyond the maximum delivery date, as per Dataquest’s Rental Rate Blue Book for Construction Equipment.
- E. All units shall be delivered with a minimum of a half tank of fuel.
- F. **Deliveries made directly from the manufacturer to the Authority shall not be acceptable.**

WARRANTY: All units delivered must be guaranteed to be free from defects in materials, design and workmanship for a minimum of two (2) years from the time of acceptance by the New Jersey Turnpike Authority. All warranties shall start upon written acceptance of units 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 Telegraph Hill Central Maintenance Facility in Holmdel, NJ 07733 or Central Shops 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. The vendor shall also have a program to include an in-house warranty. All warranty periods shall start from date of acceptance of 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.**

SERVICE PARTS IDENTIFICATION FORM: Vendor shall complete the entire Service Parts Identification Form, where applicable for chassis section. Replacement parts shall be available to the general using trade, parts shall not be proprietarily manufacturer protected. **Failure to complete form may result in rejection of bid.**

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 consisting of eight (8) 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.

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 Central Shops 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. This facility will be required to establish an in-house warranty program and provide all warranty work related to the equipment in the bid proposal. 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

VENDOR MUST LIST COSTS OF ALL ITEMS BELOW. FAILURE TO DO SO MAY RESULT IN REJECTION OF BID. THE AUTHORITY RESERVES THE RIGHT TO PURCHASE ANY OR ALL OPTIONS LISTED IN THE BID PACKAGE

ITEM	UNIT COST
WLB-2013 Backhoe Wheel Loader	
Wain Roy or approved equivalent Coupler	
1.3 Cubic Yard General Purpose Bucket	
12" Standard Bucket	
24" Jaw Bucket	
Hydraulic Breaker (Hammer)	
<p>Tool Carrier Option:</p> <ul style="list-style-type: none"> Parallel lift, hydraulic quick coupler (can attach to a Caterpillar IT machine or JRB coupler), joystick controls mounted on seat, auto idle, 3-speed hydraulics, cruise control, mini joysticks for activation of loader bucket and backhoe when facing in opposite direction. 	
	<p>TOTAL UNIT COST</p> <p>\$ _____</p>

**SPECIFICATIONS: WLB-2013
BACKHOE WHEEL LOADER
AND ACCESSORIES**

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 WILL BE REJECTED.

GENERAL:	COMPLY							
	YES	NO						
A. Four-wheel drive backhoe wheel loader and optional accessories.								
B. The unit shall be new and of the latest design and be in current production at the time of the submission of bid.								
C. All standard and optional equipment shall be Original Equipment Manufacturer (OEM) items, when available. NO EXCEPTIONS								
D. Awarded vendor shall be responsible for appropriate unit weight distributions to provide proper balance of unit when loader or backhoe is being operated to their full capacity.								
ENGINE:								
A. Four-cylinder turbo-charge diesel.								
B. Minimum 275 cubic inch displacement.								
C. Minimum 90 horsepower net @ 2,200 rpm.								
D. Minimum 295 ft/lbs. net torque @ 1,400 rpm.								
COOLING SYSTEM:								
A. Oil-to-water engine oil cooler.								
B. Coolant recovery tank.								
C. Hydraulic and transmission circuits shall be water-cooled.								
TRANSMISSION:								
A. 4-speed helical gear type with full power shift synchronized in all five (5) gears. Five (5) speeds forward and three (3) speeds reverse.								
B. Hydraulic reverser and clutch shutoff on loader lever.								
C. Approximate travel speeds shall be:								
<table border="0"> <tr> <td style="padding-right: 20px;"><u>Gear</u></td> <td style="padding-right: 20px;"><u>Forward</u></td> <td><u>Reverse</u></td> </tr> <tr> <td style="padding-right: 20px;">1</td> <td style="padding-right: 20px;">3.5 mph</td> <td>4.5 mph</td> </tr> </table>	<u>Gear</u>	<u>Forward</u>	<u>Reverse</u>	1	3.5 mph	4.5 mph		
<u>Gear</u>	<u>Forward</u>	<u>Reverse</u>						
1	3.5 mph	4.5 mph						

2	6.5 mph	8.0 mph		
3	13.0 mph	13.0 mph		
4	20.5 mph			
5	25 mph			
D. Power shift transmission shall be a single lever mounted on steering column.				
E. On the fly 4-wheel drive.				
F. Cruise control.				
FINAL DRIVES:				
A. Final drives shall be heavy-duty and outboard mounted planetaries to evenly distribute shock loads.				
B. Axle shall be totally sealed keeping out debris and contaminants.				
C. Differential lock shall be able to be engaged while on the go.				
D. Equipped shall be a limited-slip mechanical front wheel drive to give the unit a true 4-wheel drive.				
BRAKES:				
A. Brakes shall be hydraulic.				
B. Brakes shall be self-adjusting and self-equalizing.				
C. Parking brake shall automatically engage when engine stops.				
D. Parking brake shall be independent of the service brakes.				
STEERING:				
A. Hydrostatic power steering that shall include emergency manual mode.				
B. The following characteristics shall pertain to the 4-wheel drive backhoe:				
	•	Curb turning radius with brakes.....11'6"		
	•	Curb turning without brakes.....13'6"		
	•	Bucket clearance circle with brakes.....33'		
	•	Bucket clearance circle without brakes....37'		
	•	Axle oscillation on both axles.....22°		
	•	Axle rating for front (static).....26,000 lbs.		
	•	Axle rating for front (dynamic).....13,000 lbs.		
	•	Axle rating for rear (static).....28,500 lbs.		
	•	Axle rating for rear (dynamic).....15,000 lbs.		
HYDRAULICS:				
A. Hydraulic pump shall be able to deliver sufficient oil flow to fully operate effectively and efficiently all functions on the machine.				
B. All hydraulic functions shall have equal priority.				
C. Single lever control with hydraulic lift, self-leveling, and automatic return-to-dig functions.				
D. There shall be at least seven (7) hydraulic functions with plumbing for breaker (hammer) and jaw bucket attachments.				
E. Hydraulic cooler shall have an independent reservoir for continuous running of attachments at extreme temperatures.				
BACKHOE:				
A. Controls shall be pilot type with pattern selection, two (2) stick.				
B. Boom and dipper stick shall be box-constructed and made from high-				

strength steel for heavy-duty durability without excess weight.		
C. Extendable dipper stick shall be at least 4'.		
D. The outer box shall extend to keep excess debris out of lube points of dipper stick.		
E. The outer box shall have factory welded gripping teeth to allow objects to be picked up between bucket and dipper stick.		
F. Boom shall be no more than 9" wide in operator's line of sight.		
G. Bucket shall have 190° rotation.		
H. Backhoe shall have a lever to activate boom lock.		
I. Boom lock shall have a rubber bumper eliminating rattling during transport.		
J. Stabilizer cylinders shall contain lockout valves on each cylinder to ensure stabilizers do not drift during transport or operation.		
K. Stabilizers shall be equipped with reversible pads.		
L. Stabilizers shall be equipped with cylinder guards that extend and retract automatically.		
BACKHOE PERFORMANCE WITH 24" BUCKET:		
A. The following are standards for backhoe performance:		
	<u>Retracted</u>	<u>Extended</u>
• Digging force, bucket cylinder.....	15,000 lbs.	15,000 lbs.
• Digging force, crowd cylinder.....	8,000 lbs.	8,000 lbs.
• Swing arc.....	180°	180°
• Bucket rotation.....	190°	190°
• Stabilizer angle rearward.....	18°	18°
• Leveling angle.....	14°	14°
• Minimum ground clearance.....	13"	13"
• Digging depth SAE 2' flat bottom.....	14'6"	18'
• Digging depth SAE 8' flat bottom.....	13'6"	17'6"
• Overall transport length.....	23'6"	
• Transport height.....	11'6"	
• Stabilizer operating width.....	13'	
• Minimum loading truck height.....	11'	14'6"
• Reach from center of swing post.....	18'6"	22'
• Reach from center of rear axle.....	22'	25'
BACKHOE LIFT PERFORMANCE EXTENDAHOE RETRACTED:		
A. The following is the backhoe lift performance extendahoe retracted standards 87% capacity with boom at 65°:		
• Dipper lift @ 6'.....	5,700 lbs.	
• Dipper lift @ 8'.....	5,000 lbs.	
• Dipper lift @ 10'.....	4,900 lbs.	
• Dipper lift @ 12'.....	4,300 lbs.	
• Boom lift @ 6'.....	2,950 lbs.	
• Boom lift @ 8'.....	3,000 lbs.	
• Boom lift @ 10'.....	3,100 lbs.	

<ul style="list-style-type: none"> • Boom lift @ 12'.....2,600 lbs. • Boom lift @ ground level.....3,000 lbs. • Boom lift @ 12' below ground....3,300 lbs. 		
BACKHOE LIFT PERFORMANCE EXTEND		
A. The following is the backhoe lift performance extended standards:		
<ul style="list-style-type: none"> • Dipper lift @ 4'.....3,600 lbs. • Dipper lift @ 8'.....3,100 lbs. • Dipper lift @ 12'.....3,000 lbs. • Boom lift @ 4'.....2,100 lbs. • Boom lift @ 8'.....2,200 lbs. • Boom lift @ 12'.....2,200 lbs. • Boom lift @ 12' below ground level...2,000 lbs. 		
COUPLER/BUCKETS:		
A. Machine shall be equipped with a Wain Roy or approved equivalent coupler.		
B. A 24" Wain Roy or approved equivalent jaw bucket and a 12" standard bucket shall be supplied.		
TIRES:		
A. Front tires: 12.5/80-18.		
B. Rear tires: 19.5L-24.		
C. Spare tires: (1-front and 1-rear) mounted on rims. Spare tires and rims shall be identical as on unit.		
LOADER:		
A. Loader boom shall be constructed of high-tensile steel.		
B. Divergent loader arms and curved knee loader boom shall be provided for greater line of sight and superior reach.		
C. Loader portion shall incorporate a single bucket cylinder.		
D. A standard bucket level indicator and a return-to-dig switch shall be provided.		
E. Machine shall be equipped with a general purpose bucket with a minimum SAE capacity of 1.3 cubic yards, quick coupler, and 48" forks.		
F. Bucket shall be 90" with reversible bolt-on cutting edge.		
G. Bucket weight: 1,800 lbs.		
H. Loader shall be operated with a single lever control and incorporate a transmission disconnect button on lever.		
I. Loader section shall be designed with a third function valve and plumbing.		
LOADER PERFORMANCE (Based on a 1.3 cubic yard general purpose bucket):		
A. The following are loader performance standards:		
<ul style="list-style-type: none"> • Lifting capacity full height.....7,200 lbs. • Raising time full height.....5 seconds maximum • Bucket dump time.....2 seconds maximum • Bucket lowering time.....3 seconds maximum • Break out force.....10,300 lbs. minimum 		

<ul style="list-style-type: none"> • Bucket rollback @ ground level.....40° • Bucket dump angle.....45° • Dump clearance @ 45°.....8'8" 		
OVERALL MACHINE:		
A. Service points on the machine shall be accessible from the ground.		
B. Front axle grease bank shall be accessible from the top without having to crawl under machine.		
C. Hydraulic oil level sight gauge shall be provided.		
D. Fuel tank shall be easily reached from the ground.		
E. Mainframe shall be one piece.		
F. Rear axle bearings shall be self-lubricating.		
G. Machine shall be equipped with a 1,000 lb. counterweight-if needed (vendor shall be responsible for proper weight distributions to provide proper balance of unit when loader/backhoe is being operated to full capacity).		
H. All buckets shall have lift loops.		
I. Unit shall have a factory installed "ride control system".		
J. License plate bracket with light.		
K. 5 lb. ABC fire extinguisher shall be mounted in a quick-release type bracket within easy reach of the operator.		
ELECTRICAL:		
A. 12-volt electrical system with dual maintenance free batteries (1,900 CCA).		
B. Minimum 90-amp alternator.		
C. Lights: <ul style="list-style-type: none"> • Four (4) front work lights • Four (4) rear work lights • Two (2) side mounted work lights • Stop and taillights • Flashers and turn signals 		
D. Solid state electronics.		
E. On-board multi-language digital monitor displaying hours, engine speed, and gear selection.		
F. Digital on-board diagnostics with LCD readout understandable messages with calibrations and machine information.		
CAB:		
A. Cab shall be an R.O.P.S. isolation mounted and conform to SAE J1040.		
B. Noise level in cab should not exceed 76 db.		
C. 40,000 btu/hr heater/defroster.		
D. 26,000 btu/hr air conditioner.		
E. Cab air filters shall be located in cab with easy replacement requiring no tools.		
F. Operator air suspension seat.		
G. Front and rear windshield wipers.		
H. Front windshield washer.		
I. Cup holder.		

J. Am/fm/wb digital clock radio.		
K. Dual inside rear view mirrors.		
L. Front view mirror (when operating backhoe).		
M. Two (2) 12-volt outlets.		
N. Sun visor.		
O. Tinted glass.		
CONTROLS:		
A. The controls shall be hand control with the foot control regulating the extendahoe.		
B. Provide a pilot control switch that when activated shall allow operator to switch from SAE to specific manufacturer's pattern controls.		
VISUAL AND AUDIBLE ALARMS:		
A. Engine air filter restriction indicator.		
B. Alternator indicator.		
C. Hydraulic filter restriction.		
D. Torque converter oil temperature.		
E. Seat belt indicator.		
F. Mechanical Front Wheel Drive (MFWD) indicator.		
G. Beacon on/off indicator.		
H. Tachometer.		
I. Hour meter.		
J. Engine coolant temperature.		
K. Engine oil pressure.		
L. Parking brake on/off indicator.		
M. Low brake pressure.		
FUEL TANK:		
A. Fuel tank capacity: 40-gallons minimum.		
OPERATING WEIGHT:		
A. Operating weight:17,000 lbs.		
CYLINDERS:		
A. Cylinders for the loader boom, loader bucket, backhoe boom, backhoe bucket, backhoe swing, backhoe stabilizers, steering (4 wheel-drive), etc. shall be of sufficient capacity in bore, stroke, and rod design to effectively and efficiently perform their specific functions.		
PAINTING:		
A. DuPont Dulux Omaha Orange Enamel # 93-082 or approved equivalent.		
B. Paint shall be applied in a two-step process with the orange base coat and additional polyurethane overcoat.		
MANUALS:		
A. The following manuals in either paper or computer disc format shall be supplied for each machine upon delivery: <ul style="list-style-type: none"> • Operating-2 (paper only) • Service-1 • Maintenance-1 • Parts-1 		

BREAKER (HAMMER):		
A. Minimum impact energy class of 1,000 foot pounds.		
B. Maximum frequency (strike rate) of 1,170 blows per minute.		
C. Operating weight shall not exceed 900 lbs. and shall be Wain Roy compatible.		
D. Breaker shall be a low pressure type (operating pressure shall not exceed 1,850 psi).		
E. Breaker shall not exceed 24 gallons per minute oil flow at peak performance.		
F. Breaker shall be designed with a single body sealed accumulator to eliminate hydraulic pulsations.		
G. Tool shall be no less than 3" in diameter and shall be easily removable.		
H. Breaker shall not dry fire without activation of the operator.		
I. Breaker shall be designed to allow for an automatic lube system.		
J. Breaker shall have swivel connectors for both pressure and return connectors.		
K. Tool shall be held in place by at least two (2) tool retainers.		
L. Breaker shall be designed to reduce vertical shock by a top shock absorber and reduce torsional stress by side shock absorbers.		
M. Noise emitted by the breaker shall not be greater than 80 db at 10 meters.		

FAILURE TO COMPLETE ALL AREAS MAY RESULT IN REJECTION OF BID

UNIT INFORMATION FORM

BACKHOE/WHEEL LOADER:

YEAR: _____

MAKE: _____ MODEL: _____

OPERATING WEIGHT _____ LBS.

ENGINE:

YEAR: _____

MAKE _____ MODEL: _____

OF CYLINDERS _____

TIRES & WHEELS:

FRONT: MAKE/SIZE _____

REAR: MAKE/SIZE _____

ELECTRICAL SYSTEM:

VOLTAGE _____

ALTERNATOR CAPACITY _____ AMPS

FUEL TANK:

CAPACITY _____ GALLONS

QUICK COUPLER:

MAKE _____ MODEL _____

1.3 CUBIC YARD GENERAL PURPOSE BUCKET:

MAKE _____ MODEL _____

CAPACITY _____ CUBIC YARDS

BUCKETS:

12" STANDARD

MAKE _____

MODEL _____

24" JAW

MAKE _____

MODEL _____

BREAKER:

MAKE _____

MODEL _____

SERVICING AGENCY:

LOCATED @ _____

TELEPHONE NO. _____

CONTACT _____

(Name & Title)

