



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Request for Quotation

RFQ NUMBER
707EC005

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF:
JOHN JOHNSTON
304-558-2402

VENDOR

*709054014 304-776-4406
 STATE EQUIPMENT INC
 PO BOX 3939
 CHARLESTON WV 25339

SHIP TO

DIVISION OF HIGHWAYS
 EQUIPMENT DIVISION
 ROUTE 33
 BRUSHY FORK ROAD
 BUCKHANNON, WV
 26201 304-472-1750

DATE PRINTED 08/01/2006	TERMS OF SALE NET 30	SHIP VIA	F.O.B. DOH BUCKHANNON	FREIGHT TERMS
BID OPENING DATE: 09/13/2006 09/13/2006 9/20/2006		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		760-47	106,754.68	106,754.68
<p>4 WHEEL DRIVE, RUBBER TIRED ENDLOADER</p> <p>OPEN END CONTRACT</p> <p>TO PROVIDE 4 WHEEL DRIVE, RUBBER TIRED ENDLOADER, AS DESCRIBED IN ATTACHED PROCUREMENT SPECIFICATION 353-1-R.</p> <p>THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITOL COMPLEX, BUILDING 15, CONFERENCE ROOM, AT 1:00 PM ON 8/31/06. FAILURE TO ATTEND THE PRE-BID CONFERENCE WILL RESULT IN BID DISQUALIFICATION.</p> <p>QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00PM EST) ON WEDNESDAY 8/23/06.</p> <p>SEND YOUR QUESTIONS TO: PURCHASING DIVISION ATTENTION JOHN JOHNSTON 2019 WASHINGTON ST. E. CHARLESTON, WV. 25305</p> <p>QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL. E-MAIL: JJOHNSTON@WVADMIN.GOV FAX: 304-558-4115</p> <p>IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</p> <p>EXHIBIT 2</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE 	TELEPHONE 304 776 4405	DATE 9/19/06
TITLE VICE PRESIDENT	FEIN 55065 8298	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING THIRTY (30) DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICES SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM WITH THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK).</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT</p>						

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<p>THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FORWARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATICALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER.</p> <p>REV. 9/98</p> <p>EXHIBIT 6</p> <p>PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT IS BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN</p>						

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<p>A MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. GOVERNMENTAL BENCH MARKS, GENERAL MARKET INCREASE, PUBLISHED PRICE LISTS. SUCH REQUESTS FOR AND INCREASE SHOULD BE RECEIVED IN WRITING BY THE DIRECTOR OF PURCHASING AT LEAST 30 DAYS IN ADVANCE OF THE EFFECTIVE DATE OF THE INCREASE. ANY TIME THE VENDOR REQUESTS A PRICE ADJUSTMENT, THE PURCHASING DIVISION MAY EITHER ACCEPT THE PRICE ADJUSTMENT AND AMEND THE CONTRACT ACCORDINGLY OR REJECT THE ADJUSTMENT IN ITS ENTIRETY AND CANCEL THE CONTRACT.</p> <p>VENDOR PREFERENCE CERTIFICATE</p> <p>CERTIFICATION AND APPLICATION* IS HEREBY MADE FOR PREFERENCE IN ACCORDANCE WITH WEST VIRGINIA CODE, 5A-3-37 (DOES NOT APPLY TO CONSTRUCTION CONTRACTS).</p> <p>A. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS AN INDIVIDUAL RESIDENT VENDOR AND HAS RESIDED CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR</p> <p>(X) BIDDER IS A PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR AND HAS MAINTAINED ITS HEAD-QUARTERS OR PRINCIPAL PLACE OF BUSINESS CONTINUOUSLY IN WEST VIRGINIA FOR FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION; OR 80% OF THE OWNERSHIP INTEREST OF BIDDER IS HELD BY ANOTHER INDIVIDUAL, PARTNERSHIP, ASSOCIATION OR CORPORATION RESIDENT VENDOR WHO 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</p>						

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<p>() BIDDER IS A CORPORATION 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.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p><input checked="" type="checkbox"/>) 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;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & 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</p>						

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<p>ORDER ISSUED; 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.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND 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.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), 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.</p> <p>BIDDER: STATE EQUIPMENT, INC.</p> <p>DATE: 9/19/06</p> <p>SIGNED: </p> <p>TITLE: VICE PRESIDENT</p>						

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<p>* CHECK ANY COMBINATION OF PREFERENCE IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU ARE ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 33</p> <p>RFQ. NO.: 707EC005</p> <p>BID OPENING DATE AND TIME</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p>						

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----- CONTACT PERSON (PLEASE PRINT CLEARLY): EDDIE ROWAN JR. -----						
***** THIS IS THE END OF RFQ 707EC005 ***** TOTAL:						<u>106,754.68</u>

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 353-1-R

4 WHEEL DRIVE, RUBBER TIRED, ENDLOADER

1.0 PURPOSE

It is the purpose of these specifications to describe a 4 Wheel Drive, Rubber Tired, Endloader (hereinafter referred to as a "endloader" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail. **FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.**

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications". The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall and/or must" or are stated as a "minimum and/or maximum" are mandatory. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on the first order only to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) calendar days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendors expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within approximately 100 days. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms shall be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid. The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

A completed pilot model for inspection is preferred within 100 calendar days after the date of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D O T Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.

Prices for the units shall be in quantities of 1-10, 11-20, 21-30, and 31 and over. However, for evaluation purposes, we will use quantities 1-10. DOH reserves the right to place multiple orders in any quantity.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently

be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2006 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts manuals.

* NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract. Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual.

The seminar to be held at the W. Va Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable

warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

8.0 Endloader Specification:

8.1 Operating weight to be approximately 22,000 pounds (exclusive of tire ballast).

8.1.1 Unit shall have a breakout force of 22,000 pounds minimum.

8.2 Overall length (bucket lowered) 23 foot approximately.

8.3 Loader shall have articulated frame with full hydraulic power steering.

8.3.1 Tipping load straight 14,500 pounds minimum.

8.4 Overall height 10 feet 8 inches to top of cab (maximum).

8.4.1 Dumping clearance at maximum height and 45° dump angle shall be 110 inches minimum.

8.5 Loader shall be equipped with a quick coupler system for interchangeability of attachments, controlled from operator station.

8.6 Unit shall be equipped with manufacturers vandalism package and all machines keyed alike.

8.7 All daily services should be done from ground level.

8.8 Engine:

8.8.1 Engine shall be manufacturers water cooled diesel powered and shall provide approximately 115-125 horse power and torque to operate machine and hydraulic system at maximum efficiency.

8.8.2 Manufacturers standard governor with key shut off, wire sealed by manufacturer.

8.8.3 Engine shall have an engine block water heating element (1500-2000 watt).

8.8.4 Heating element to have a male plug easily accessible, 110 volt AC.

8.9 Engine Lubrication:

8.9.1 Full pressure lubrication with oil filter and oil by-pass system.

8.9.2 Engine oil cooler.

8.10 Cooling System:

- 8.10.1 Manufacturer shall provide maximum cooling system available to allow machine to operate at full capability during all seasons.
- 8.10.2 Cooling system shall be supplied with Dex-cool or equal extended life anti-freeze protected to a point of -34 degrees F.
- 8.10.3 Engine coolant filter shall be provided if recommend by manufacturer for this application.

8.11 Air Induction System:

- 8.11.1 Dry type dual element (2 stage) air cleaner with pre-cleaner.
- 8.11.2 Unit shall have dash mounted air filter restriction indicator that is operator visible when service is required.

8.12 Exhaust System:

- 8.12.1 Complete exhaust system shall be manufacturers standard for unit specified
- 8.12.2 Exhaust pipe shall be rain proof.

8.13 Electrical System:

- 8.13.1 Unit electrical system to be manufacturers noise suppression wiring.
- 8.13.2 System to be 12 volts/24 volts negative ground (manufacturers standard).
- 8.13.3 Manufacturers heavy duty cold cranking amp battery(s), approximately 825 CCA; reserve capacity 160 minimum.

8.14 Charging System:

- 8.14.1 Unit should have 70 amp alternator (minimum) with internal regulator.

8.15 Engine Fuel System:

- 8.15.1 Fuel capacity to be 12 working hours, minimum.
- 8.15.2 Unit to be provided with a fuel/water separator.
- 8.15.3 Dual stage fuel filtering shall be provided.

8.16 Transmission:

- 8.16.1 Transmission shall be full power shift design with torque converter, capable of "On the GO" shifting in all speed ranges and full automatic feature with on-board diagnostic capabilities and kickdown controls.
- 8.16.2 Torque converter shall handle maximum power output of engine.
- 8.16.3 Transmission to have four (4) forward speeds and three (3) reverse with a top forward ground speed of approximately 23 MPH.
- 8.16.4 Transmission shall have a neutral start switch for safety purposes

8.17 Differential:

- 8.17.1 Manufacturers front and rear conventional.

8.18 Axles:

- 8.18.1 Front axle to be fixed.
- 8.18.2 Rear axle should oscillate 13 degrees minimum.

8.19 Brakes to be as follows:

- 8.19.1 Manufacturers recommended emergency braking system.
- 8.19.2 Emergency brake must be independent of service brake
- 8.19.3 Hydraulic actuated powered assisted service brakes.
- 8.19.4 Wet type disk service brakes.

8.20 Hydraulic System:

- 8.20.1 Unit shall provide hydraulic lift, lower, dump, roll back and float plus third spool auxiliary valve and cab controller.
- 8.20.2 All hydraulic cylinders shall be double action chrome plated piston type.
- 8.20.3 Loader to be equipped with a hydraulic oil cooler if recommend by manufacturer.
- 8.20.4 A sight glass shall be provided for daily checking of hydraulic oil.
- 8.20.5 Hydraulic system relief pressure of approximately 2500 PSI.

- 8.20.6 Unit shall be equipped with manufacturers standard hydraulic filtering system.
- 8.21 Tires and Wheels:
- 8.21.1 Wheels shall be manufacturers recommended size for unit bid.
- 8.21.2 Tires shall be grader/loader type front and rear tubeless radials.
- 8.21.3 Overall tire width (outside left to outside right) not to exceed 8 feet.
- 8.22 Cab and related Accessories:
- 8.22.1 Cab shall be OSHA approved ROPS.
- 8.22.2 Cab shall be insulated and pressurized.
- 8.22.3 Cab shall be equipped with heater, defroster and air conditioning installed by manufacturer.
- 8.22.4 Cab shall have front and rear windshield wipers and washers.
- 8.22.5 Cab shall have safety, tinted glass at all locations
- 8.22.6 Left and right side rear view mirrors and in cab rear view mirror shall be provided.
- 8.22.7 Cab must have at least one (1) entry door, lockable.
- 8.22.8 Doors should be hinged at rear to provide front to back opening.
- 8.22.9 Unit shall be provided with non-skid steps and hand holds
- 8.22.10 Seat to be cloth type with scotchguard (or equivalent) and with adjustable seat belt.
- 8.22.11 Seat to be equipped with adjustable arm rest.
- 8.22.12 Seat shall provide height and weight adjustments
- 8.22.13 Unit shall have adjustable tilt and telescoping steering wheel for easier operator control.
- 8.22.14 Front and rear fenders shall be provided on unit.
- 8.22.15 Fire extinguisher shall be provided and mounted in unit. (Successful bidder should notify DOH before mounting).

- 8.22.16 AM/FM radio must be provided and installed in unit.
- 8.23 Lighting System:
- 8.23.1 Unit to have two (2) hi/low halogen beam front lights for tramming and working.
- 8.23.2 Loader to have four (4) work lights, two (2) front and two (2) rear mounted in accordance to cab features.
- 8.23.3 Unit to have flash/turn signals (front/rear) stoplights and taillights.
- 8.23.4 Unit shall be provided with console and dome lighting.
- 8.23.5 Low profile high intensity strobe light mounted at top rear of cab. Code 3 92QASH, 12/48 VDC, 11 Jules, five (5) flash generating not more than 1.0 UV of interference on radio receiver with 12 db of quieting.
- 8.23.6 Unit shall be equipped with OSHA approved audible reverse alarm.
- 8.23.7 Articulation locking bar and pin to be provided.
- 8.24 Unit Instrumentation to provide the following:
- 8.24.1 Tachometer.
- 8.24.2 Speedometer.
- 8.24.3 Hour meter shall be operable from engine operation not key switch.
- 8.24.4 Fuel gauge.
- 8.24.5 Ammeter/or volt meter.
- 8.24.6 Coolant temperature indicator with audible buzzer or visual warning light.
- 8.24.7 Engine oil pressure indicator with audible buzzer or visual warning light.
- 8.24.8 Transmission oil temperature indicator.
- 8.24.9 Transmission oil pressure indicator.
- 8.24.10 All features that are considered to be manufacturers standard equipment that are not specifically addressed above shall be provided.

- 8.24.11 Unit shall be delivered to WVDOH with all manufacturers recommended safety related decals and safety features intact
- 8.24.12 One (1) complete set of replacement filters shall be provided with each unit upon delivery.
- 8.25 Bucket:
- 8.25.1 Bucket shall be general purpose 1.75 cubic yard struck and 2.1 cubic yard heaped capacity approximate
- 8.25.2 Bucket width to be approximately 96 inches.
- 8.25.3 Bucket shall roll back 50 degrees at ground level and dump at 45 degrees minimum at full height.
- 8.25.4 Unit shall be equipped with automatic return to work leveler for bucket and attachments.
- 8.25.5 Bucket cutting edge and bottom wear strips shall be replaceable.
- 8.25.6 The cutting edge welded to bucket and a bolt-on replaceable cutting edge shall be mounted under it.
- 8.25.7 Digging depth below horizontal, (bucket leveled) should be 3 inches (approximately).
- 8.26 Forks:
- 8.26.1 Forks shall be heavy duty steel construction.
- 8.26.2 Carriage shall be heavy duty steel construction.
- 8.26.3 Carriage size approximately 3/4 inches side plates and 60 inches wide.
- 8.26.4 Tines/Forks are to be 6 inches wide and 48 inches long.
- 8.26.5 Tines/Forks to be approximately 2 inches thick at heel and to be forged solid steel.
- 8.26.6 Tines/Forks should be mounted on approximately 2.5 inches diameter round bar and adjustable laterally 60 inches approximate.
- 8.27 Material Handling Boom:
- 8.27.1 Material handling boom shall be of heavy duty construction type with hook.

- 8.27.2 Boom of three (3) locking sections with a minimum reach of approximately 12 feet.
- 8.28 Paint:
- 8.28.1 The endloader and attachments shall be painted white, Federal Standard White 595A (No. 17875).
- 8.28.2 Detail/Decorative Stripes with Logo:
- 8.28.3 Width: to be 4 inches.
- 8.28.4 WV DOH logo (to be supplied by WV DOH) is attached (black and white copy) and is approximately 7 inches tall by 7 inches wide. Area behind logo and within ½ inches of logo is not to be striped. Stripes should be cut to follow contour of logo, in lieu of straight cut.
- 8.28.5 Striping material shall meet the requirements of ASTM D4956-91 Type V sheeting, a super high-intensity retroreflective sheeting consisting of microprismatic retroreflective elements. The conspicuity sheeting must meet the requirement of NHSTA, DOT, 49CFR, Part 571 Federal Motor Vehicle safety standards for conspicuity sheeting and be "DOT approved".
- 8.28.6 The sheeting for both applications above shall not be more than .0008 inch thick having approximately 47,000 microprisms per square inch and shall come with an aggressive high tack pressure sensitive adhesive, reflexite or equivalent.
- 8.28.7 Upper stripe color: Dark Blue.
- 8.28.8 Lower stripe color: Light Gold.
- 8.28.9 Bidder must consult with the WV DOH on proposal for striping before inspection of pilot model.
- 8.28.10 Bidder to attach proposed paint plan with this bid. It should include chips or samples of proposed paints as well as a proposed striping detail on a cab silhouette sheet. Bidder may modify attached striping plan to fit his particular cab shape.
- 8.28.11 In order to test the adhesive quality of the paint, the DOH may, at its option, require that the vendor measure adhesion by the criteria set forth in ASTM D3359-74, Method B. A rating of less than 4 on this test would be deemed unacceptable.

- 8.28.12 The procedures used by the manufacturer in cleaning, de-greasing, priming, and painting are sufficient to meet this requirement except that the manufacturer must substitute white paint (of equivalent grade or quality to manufacturer's standard colored paint) for manufacturer's standard paint in the finish coats.
- 8.28.13 The Department reserves the right to view larger paint samples after award of contract and the right to require subtle color changes. Such changes, if any, will only be used for selecting a suitable paint color to match the WV DOH logo.
- 8.28.14 The Department is desirous of avoiding units painted white over top the standard color. However, if bidder/manufacturer is unable to substitute white paint in its normal plant painting procedures, then bidder must state so and offer his proposed paint method.
- 8.28.15 Areas not normally painted the manufacturer's standard color(s) on standard units (e.g. some rubber parts, mirrors, exhaust pipe, etc.) Are not to be painted white on units specified herein. Also, areas painted a distinct color (e.g. safety reasons) should be painted as they normally would.
- 8.29 Vendor must certify that loader offered will meet or exceed the "Occupational Safety and Health Act of 1970" or subsequent changes that are in effect at time of manufacturer of the unit.
- 8.30 Advertising: Only one (1) manufacturer name plate, which must include model number, may appear on exterior of unit. Logos created through the stamping or casting process of manufacture are also acceptable. No logo will interfere with the Department's striping and logo.
- 8.31 Preventive Maintenance and Operators Orientation/Training:
- 8.31.1 The Manufacturer or dealer shall provide preventive maintenance/operator orientation seminar to be conducted at the Equipment Division, Buckhannon. All training aids i.e. videos, charts, manuals, etc., to be furnished by successful vendor.

NOTE: Vendor should type Bidder's Evaluation Report

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 353-1-R

4 WHEEL DRIVE, RUBBER TIRED, ENDLOADER

NOTE TO BIDDER: Procurement Specification No. 353-1-R, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid
FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION

Reference Requisition No : 707EC005

Bidder's Name: STATE EQUIPMENT INC.

Address: 560 NEW GOFF MTN. RD. CROSS LANES WV 25313

Telephone Number: (304) 776-4405

Years Bidder has been registered to do business with the State of West Virginia: 20 YRS

Years Company has been an authorized dealer for proposed unit: 20 YRS.

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 100 Calendar Days After Date of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 185 Calendar Days After Date of Purchase Agreement

X5 0 AWARD CRITERIA;

X5.1	Prices for endloaders in quantities of	1-10	<u>106,754.68</u>	per unit
		11-20	<u>106,754.68</u>	per unit
		21-30	<u>106,754.68</u>	per unit
		31 and over	<u>106,754.68</u>	per unit

X6 0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

2006 CASE 621D
 Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6 2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units? YES NO

Will the required Equipment Preventive Maintenance Form (Section X6 2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit? YES NO

X6 2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH

DESCRIPTION: _____ MAKE: _____

MODEL: _____ YEAR: _____ PURCHASE AMOUNT: _____

ENGINE: MAKE: _____ MODEL: _____ FUEL TYPE: _____

HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____

COOLING SYSTEM CAPACITY: _____

BELTS: DESCRIPTION: _____ PART NUMBERS: _____

GVW: _____ AXLE CAPACITY: FRONT: _____ REAR: _____

TIRES: FRONT MAKE & SIZE: _____

REAR MAKE & SIZE: _____

DIMENSIONS OF UNIT: LENGTH: _____ WIDTH: _____ LENGTH: _____

VENDOR CONTACT PERSON: _____ PHONE: _____

PARTS:

BATTERY MAKE: _____ MODEL: _____ CCA: _____

TOP OR SIDE POST: _____ DIMENSIONS: LENGTH _____ WIDTH _____ HEIGHT _____

SPARK PLUGS OR FUEL INJECTORS MAKE: _____ PART # _____

FUEL PUMP OR INJECTION PUMP MAKE: _____ MODEL: _____

ALTERNATOR MAKE: _____ PART #: _____

STARTER MAKE: _____ PART #: _____

TURBO CHARGER MAKE: _____ PART #: _____

TRANS. MAKE: _____ MODEL: _____ AUTO/MANUAL: _____

HYDRAULIC PUMP MAKE: _____ MODEL: _____

FILTERS	MAKE	PART NO.	LUBRICANT	MANUFACTURER TYPE
OIL	_____	_____	ENGINE	_____
AIR INNER	_____	_____	TRANSMISSION	_____
AIR OUTER	_____	_____	POWER STEERING	_____
FUEL PRIMARY	_____	_____	HYDRAULIC	_____
FUEL SECONDARY	_____	_____	DIFFERENTIALS	_____
COOLANT	_____	_____	BRAKE FLUID	_____
HYDRAULIC	_____	_____	COOLANT	_____
OTHER	_____	_____	OTHER	_____

X6 3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training YES NO

Will you conduct training with each purchase order against this open end contract? YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order? YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished to the Training Academy? YES NO

X6 4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training? YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit? YES NO

If NO, explain _____

X6 5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications YES NO

Is warranty literature attached? YES NO

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURERS TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH (If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

SEE ATTACHED COPY

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

STATE EQUIPMENT, INC. CHARLESTON, BRIDGEPORT, BECKLEY, PARKERSBURG

WARRANTY WORK PERFORMED AT OUR FACILITY = NO CHARGE

WARRANTY WORK PERFORMED AT DOH FACILITY = CHARGE FOR TRAVEL TIME & MILEAGE

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

CHARLESTON, BRIDGEPORT, BEAVER, PARKERSBURG

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

- A. Terms: Net 30 Manufacturer's published list price less: 0 % discount
- B. Terms: Net 60 Manufacturer's published list price less: 0 % discount
- C. Terms: Net 90 Manufacturer's published list price less: 0 % discount

5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? x YES NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit

- A. Shop Rate \$ 70 per mechanic hour
- B. Travel Time Charge \$ 75 per mechanic hour
(Specify if one-way) _____; port to port x
- C. Mileage Charge \$ 1.25 per vehicle mile
(Specify if one-way) _____; port to port x
- D. Field Mechanic Rate \$ 75 per mechanic hour
- E. Specify period of time that prices are in effect: 12 MONTHS
- F. Surcharge for miscellaneous items: 3 %

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry? YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished? YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included? YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.

Manufacturer: CASE Model: 621D

X8.0 Endloader Specification:

X8.1 Operating weight: 27877 pounds (exclusive of tire ballast)

X8.1.1 Breakout force: 26739 pounds

X8.2 Overall length (bucket lowered): 24 foot

X8.3 Does loader have articulated frame and full hydraulic power steering? YES NO

X8.3.1 Tipping load straight: 20318 pounds

- X8.4 Overall height: 10.84" to top of cab
- X8.4.1 Dumping clearance at maximum height and 45° dump angle: 113.3 inches
- X8.5 Are units provided with a quick coupler system for interchangeability of attachments, controlled from operator station YES NO
- X8.6 Do machine(s) have vandalism package/keyed alike? YES NO
- X8.7 Are daily services done from ground level? YES NO
- X8.8 Engine:
- X8.8.1 Is engine manufacturers water cooled diesel powered providing 148 HP and torque to operate machine and hydraulic system at maximum efficiency? YES NO
Specify HP: 148
- X8.8.2 Is unit equipped with manufacturer's standard governor with key shut off, wire sealed by Manufacturer? YES NO
- X8.8.3 Engine equipped with an engine block water heating element (1500-2000 watt)? YES NO
- X8.8.4 Does heating element have male plug easily accessible, 110 volt AC? YES NO
- X8.9 Engine Lubrication:
- X8.9.1 Has full pressure lubrication with oil filter and oil by-pass system? YES NO
- X8.9.2 Is engine equipped with oil cooler? YES NO
- X8.10 Cooling System:
- X8.10.1 Is cooling system of manufacturers maximum to allow full capability of operation for all seasons? YES NO
- X8.10.2 Cooling system supplied with Dex-Cool or equal extended life anti freeze to -34°F? YES NO
- X8.10.3 Is coolant filter provided if recommended manufacturer for this application? YES NO

X8.11 Air Induction System:

X8.11.1 Is dry type (2 stage) dual element air cleaner with pre-cleaner provided?
 YES NO

X8.11.2 Does unit have dash mounted air filter restriction indicator that is visible when service is required?
 YES NO

X8.12 Exhaust System:

X8.12.1 Is complete exhaust system manufacturers standard for unit specified?
 YES NO

X8.12.2 Is exhaust pipe rain proof?
 YES NO

X8.13 Electrical System:

X8.13.1 Is unit provided with manufacturers noise suppression wiring?
 YES NO

X8.13.2 Is system 12 volts/24 volts negative ground
 YES NO

X8.13.3 Are heavy duty CCA battery(s) provided?
 YES NO

CCA 900 reserve capacity 160

X8.14 Charging System:

X8.14.1 Alternator AMPS: 70 with internal regulator? YES NO

X8.15 Engine Fuel System:

X8.15.1 Is fuel capacity at least 12 working hours
 YES NO

X8.15.2 Is unit provided with a fuel/water separator?
 YES NO

X8.15.3 Is dual stage fuel filtering provided?
 YES NO

X8.16 Transmission:

X8.16.1 Is transmission full power shift with torque converter capable of "on the Go" shifting in all ranges? YES NO

Does it have full automatic feature with on-board diagnostic capabilities and kickdown controls YES NO

X8.16.2 Is torque converter capable of handling maximum power output of engine? YES NO

X8.16.3 Number of forward speeds 4 Number of reverse speeds 3 ?

Top forward ground speed: 24 HP

X8.16.4 Is neutral start switch provided for safety purposes? YES NO

X8.17 Differential:

X8.17.1 Is front and rear differential manufacturers conventional type? YES NO

X8.18 Axles:

X8.18.1 Is front axle fixed? YES NO

X8.18.2 Oscillation of rear axle: 24 degrees

X8.19 Brakes:

X8.19.1 Is Manufacturers recommended emergency braking system provided? YES NO

X8.19.2 Is emergency brake independent of service brake? YES NO

X8.19.3 Are service brakes powered assisted hydraulic actuated? YES NO

X8.19.4 Are service brakes wet disk type? YES NO

X8.20 Hydraulic System:

X8.20.1 Does unit provide hydraulic lift, lower, dump, roll back and float YES NO

Does unit have third spool auxiliary valve and cab controller YES NO

- X8.20.2 Are hydraulic cylinders double action chrome plated piston type? YES NO
- X8.20.3 Is hydraulic oil cooler provided if recommended by manufacturer? YES NO
- X8.20.4 Is sight glass provided for daily service checks? YES NO
- X8.20.5 Hydraulic system relief pressure: 3596-3654 P.S.I.
- X8.20.6 Is Manufacturers standard hydraulic filtering system provided? YES NO
- X8.21 Tires and Wheels:
- X8.21.1 Are wheels manufacturers recommended size for unit bid? YES NO
Specify size 20.5 X 25
- X8.21.2 Are tires grader/loader type tubeless radials front and rear? YES NO
Specify size: 20.5 X 25
- X8.21.3 Overall tire width (outside left to outside right): 7 feet 8 inches
- X8.22 Cab and related accessories:
- X8.22.1 Is cab OSHA approved ROPS? YES NO
- X8.22.2 Is cab insulated and pressurized? YES NO
- X8.22.3 Is cab equipped with heater, defroster, air conditioning installed by the manufacturer? YES NO
- X8.22.4 Is cab equipped with wipers and washers front and rear? YES NO
- X8.22.5 Is Manufacturers tinted safety glass at all locations? YES NO
- X8.22.6 Are left and right rear view mirrors and in cab rear view mirror provided? YES NO
- X8.22.7 Does cab have one (1) lockable entry door? YES NO
- X8.22.8 Are doors hinged at rear to provide front to back opening YES NO

- X8.22.9 Is unit provided with non-skid steps and hand holds YES NO
- X8.22.10 Is seat cloth type with scotchguard or equal and with adjustable seat belt YES NO
- X8.22.11 Is seat equipped with adjustable arm rests? YES NO
- X8.22.12 Does seat provide height and weight adjustments? YES NO
- X8.22.13 Is unit equipped with adjustable tilt and telescoping steering wheel for easier operator control? YES NO **TIH ONLY**
- X8.22.14 Are fenders provided front and rear? YES NO
- X8.22.15 Is fire extinguisher provided and mounted on unit? YES NO
- X8.22.16 Is AM/FM radio provided and installed in unit? YES NO
- X8.23 Lighting System:
- X8.23.1 Is unit equipped with two (2) hi/low halogen beam front lights for tramping and working? YES NO
- X8.23.2 Does unit have four (4) work lights; two (2) front/two (2) rear cab mounted work lights YES NO
- X8.23.3 Does unit have flash/turn signals (front and rear), stoplights, and taillights? YES NO
- X8.23.4 Does unit have console and dome lighting? YES NO
- X8.23.5 Is unit equipped with low profile high intensity strobe light mounted at top rear of cab as specified YES NO
- If NO, explain _____
- _____
- X8.23.6 Is unit equipped with audible OSHA approved reverse alarm? YES NO
- X8.23.7 Is articulation locking bar and pin provided? YES NO
- X8.24 Unit Instrumentation:
- X8.24.1 Tachometer? YES NO

- X8.24.2 Speedometer? YES NO
- X8.24.3 Does hour meter operate from engine operation? YES NO
- X8.24.4 Fuel gauge? YES NO
- X8.24.5 Ammeter/ or volt meter? YES NO
- X8.24.6 Does coolant temperature indicator have audible buzzer or visual warning light? YES NO
- X8.24.7 Does engine oil pressure indicator have audible buzzer or visual warning light? YES NO
- X8.24.8 Does unit have transmission oil temperature indicator? YES NO
- X8.24.9 Does unit have transmission oil pressure indicator? YES NO
- X8.24.10 All features considered to be standard equipment not addressed above:
SEE BROCHURE
- X8.24.11 Will unit be delivered to WV DOH with manufacturer's safety decals and features intact? YES NO
- X8.24.12 Is one (1) complete set of replacement filters for each unit provided? YES NO
- X8.25 Bucket:
- X8.25.1 Bucket capacity struck: 2.17 Cu Yd Heaped capacity: 2.52 Cu Yd
- X8.25.2 Bucket width: 103 inches
- X8.25.3 Bucket roll back 40 degrees at ground level and dump at full height
5.5 degrees
- X8.25.4 Does unit have automatic return to work leveler for bucket and attachments YES NO
- X8.25.5 Are replaceable cutting edge and bottom wear strips provided YES NO

X8.25.6 Is cutting edge welded to bucket and bolt on replaceable cutting edge mounted under it? YES NO

X8.25.7 Digging depth below horizontal (bucket level): 3.2 inches

X8.26 Forks:

X8.26.1 Are forks heavy duty steel construction? YES NO

X8.26.2 Is carriage of heavy duty steel construction? YES NO

X8.26.3 Carriage size: 7/8 inch side plates and 60 inches wide?

X8.26.4 Tines/Forks: 6 inches wide and 48 inches long

X8.26.5 Tines/Forks: 2 inches thick at heel and forged solid steel
 YES NO

X8.26.6 Tines/Forks mounted on 2.5 inches diameter round bar

Adjustable laterally 60 inches

X8.27 Material Handling Boom:

X8.27.1 Is material handling boom of heavy duty construction with hook?
 YES NO

X8.27.2 Boom has 3 locking sections Boom reach: 14.5 feet

X8.28 Paint:

X8.28.1 Is endloader painted Federal Standard White 595A (NO. 17875)?
 YES NO

X8.28.2 Will detail/decorative stripes be provided and installed on unit by successful bidder?
 YES NO

X8.28.3 Are stripe(s) width 4 inches as specified? YES NO

X8.28.4 Does striping method and striping material meet required specifications quoted in sections 8.28.4; 8.28.5; and 8.28.6?
 YES NO

If NO, explain _____

X8 28.7 Describe color and type of material of upper stripe:
D82- 2342- 040150

DARK BLUE 4" REFLEXITE

X8 28.8 Describe color and type of material of lower stripe:
LIGHT GOLD 4" REFLEXITE D82- 1842- 040150

8 28 9 Will bidder consult WV DOH on proposed striping? YES NO

X8.28.10 Has bidder attached paint plan (chips/samples/striping details) to compliance form? YES NO

If no will samples be submitted? YES NO

X8.28.11 Describe manufacturers paint procedure as specified in sections 8.30.11; 8.30.12; and 8.30.13

MANUFACTURES STANDARD PAINTING PROCEDURE
WITH DOH SPECIFIED FEDERAL STANDARD WHITE

X8 28 14 Is white paint specified applied over top of manufacturer's standard color? YES NO

X8.28.15 Are areas of distinct color(s) (e.g. safety reason) be painted as they normally would? YES NO

X8 29 Does proposed unit meet or exceed the "OSHA of 1970" and/or subsequent changes? YES NO

X8.30 Does unit conform to the advertising guidelines? YES NO

X8.31 Preventive Maintenance and Operators Orientation/Training:

X8.31.1 Have you attached a copy of proposed training program. Attach schedule describing course offered with a brief explanation of each subject with the time required for each class. Do not attach instruction material or manuals. Will you furnish all training aids; i.e. videos, projectors, etc., required in conducting the training? YES NO

A F F I D A V I T

West Virginia Code §5A-3-10a states:

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 the debt owned is an amount greater than one thousand dollars in the aggregate

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

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions

'Political subdivision' means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities

'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

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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

LICENSING:

The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated

Vendor's Name: STATE EQUIPMENT, INC.

Authorized Signature:  Via President Date: 9/19/06



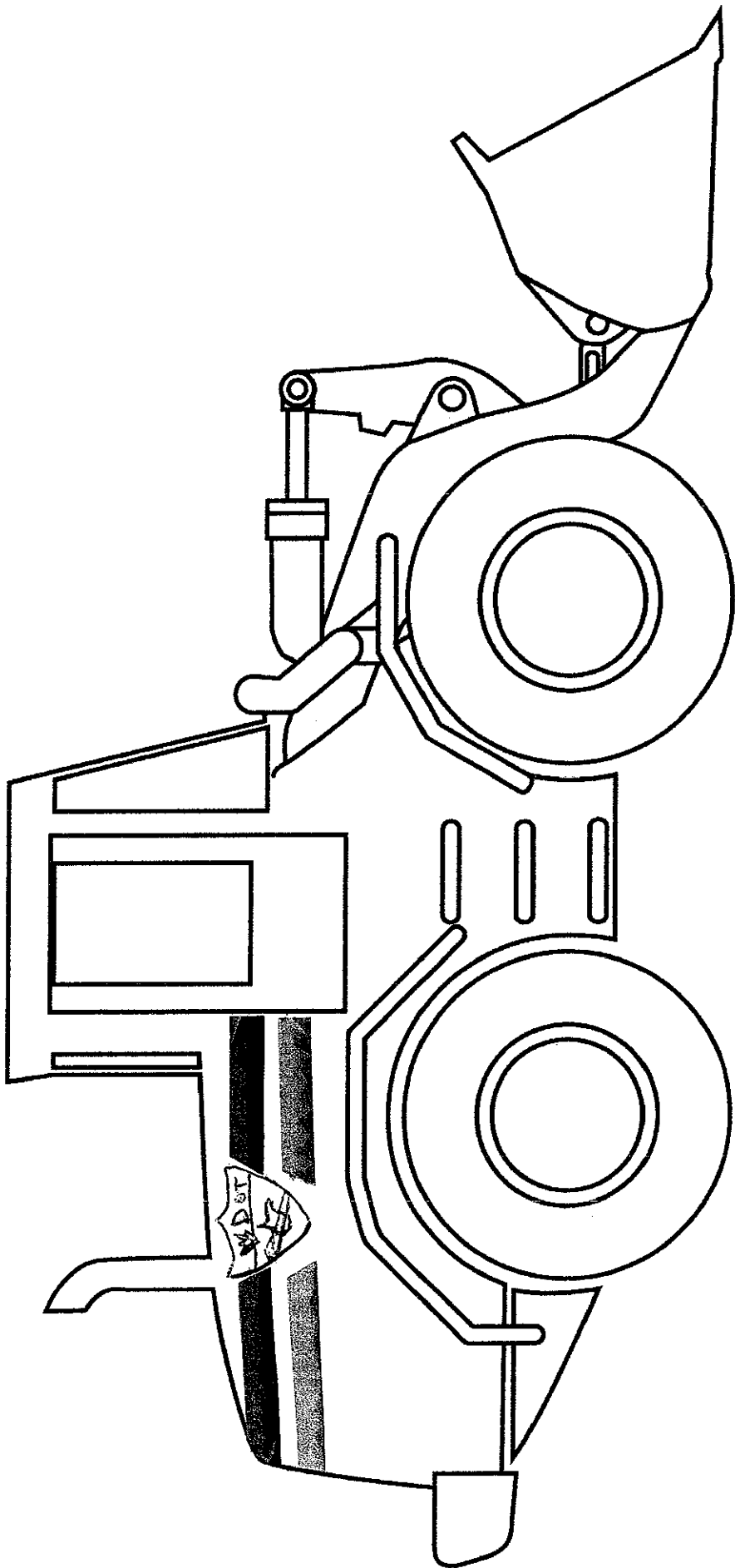
STATE EQUIPMENT, INC.

P O BOX 3939
CHARLESTON WV 25339

PHONE: 304-776-4405
FAX: 304-776-4409
INFO@STATEEQUIPMENT.COM
WWW.STATEEQUIPMENT.COM

Maintenance and Operator Training

State Equipment, Inc. in conjunction with the wheel loader manufacturer, will conduct a maintenance and operators training session to the satisfaction of the WVDOH. The session will cover daily maintenance operations and machine orientation. It should take approximately two hours and will be conducted at the WVDOH Buckhannon facility. Training will take place within two working days from delivery of pilot unit.





TIER II CERTIFIED **621D/XT/XR**
Articulated Wheel Loader

ENGINE

Model Case Family III,
 668IA/M2,
 Tier II certified
 Type..... 4-stroke, turbocharged
 and air to air cooled
 Cylinders..... 6
 Bore/Stroke 4 09" x 5 20"
 (104 X 132 mm)
 Displacement 409 in³ (6.8 L)
 Fuel injection..... Direct
 Fuel..... #2 Diesel
 Fuel filter..... Replaceable, full flow
 spin-on cartridge
 Air filter Dry type element
 w/warning restriction indicator
 Mid-mount cooling module External
 independent mounted coolers
 Radiator
 Core type In-line 9 fins/in
 Rows of tubes 5
 Fan
 Style 8 blade puller
 Diameter 28" (711 mm)
 Water pump
 Style Integral
 Engine oil
 Pump operating angle ratings
 Side-to-side Rated 35°
 Fore and aft Rated 35°
 Oil filtration..... Replaceable,
 full flow spin-on cartridge
 Horsepower – Rated
 Gross 148 (110 kW) @ 2000 rpm
 Net 136 (101 kW) @ 2000 rpm
 Peak torque @ 1200 rpm
 Gross 509 lb ft (698 N·m)
 Net 495 lb·ft (673 N·m)
 Torque rise 33%

NOTE: Gross horsepower and torque per SAE
 J1995. Net horsepower and torque per
 SAE J1349

DRIVETRAIN

Transmission..... 4F/3R Proportional
 w/Electronic Control Module
 torque sensing autoshift/manual
 shift and modulation
 Gears..... Helical cut
 Gear ratios Forward Reverse
 1st..... 4 012 3 804
 2nd..... 2 024 1 919
 3rd..... 1 088 1 031
 4th..... 0 619 NA
 Torque converter
 Stall ratio..... 2 66:1
 Differential..... Limited slip
 w/45% transfer on front
 and rear axles
 Rear axle oscillation 24° total
 Front and rear axle
 Differential ratio 3 18
 Planetary ratio..... 6 40
 Final axle ratio 20 36
 Planetaries Outboard
 Service brakes Hydraulically
 actuated, maintenance-free,
 multiple wet disc w/accumulator
 to all four wheels
 Brake surface area..... 355 in² per hub
 (0 229 m²)
 Parking brakes Spring-applied
 hydraulic release disc on
 transmission output shaft
 Travel speeds – mph (km/h)
 w/20 5x25 L3 Tires
 Forward Reverse
 1st 4 3 (6 9) 4 5 (7 3)
 2nd 8 4 (13 5) 8 8 (14 2)
 3rd 14 9 (23 9) 15 6 (25 0)
 4th 24 0 (38 6) NA

NOTE: Travel speeds at full engine throttle

ELECTRICAL

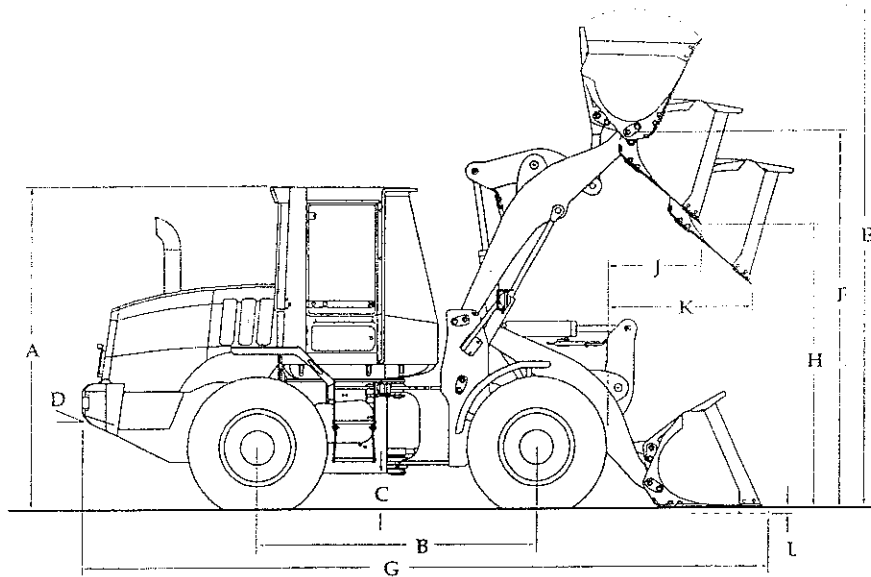
Voltage..... 24 Volts, negative ground
 Alternator 70 amp
 Batteries (2) 12 Volt

HYDRAULICS

Pump (steering/implement)
 Closed centered pressure/
 flow compensated
 Variable displacement ... 5 49 in³/rev
 45 2 gpm @ 2000 rpm @ 3600 psi
 (171 L/min @ 2000 rpm
 @ 24 822 kPa)
 Loader control valve..... Closed-center,
 sectional 2, 3 or 4-spool with
 pilot control for lift, tilt
 and auxiliary hydraulics,
 electromagnetic detents in
 float, raise and rollback
 Loader auxiliary
 Steering Hydraulic orbital
 center-pivot articulating
 w/on-demand oil flow
 High pressure standby..... 3625 psi
 (25 000 kPa)
 Filtration 10-micron,
 full flow replaceable cartridges
 on return line, condition indicator
 light for filter

CYLINDERS

Lift cylinder
 Bore diameter 4 50" (114 3 mm)
 Rod diameter 2 50" (63 5 mm)
 Stroke 31 00" (787 6 mm)
 Dump cylinder (Z-Bar & XR)
 Bore diameter..... 5 00" (127 0 mm)
 Rod diameter 3 00" (76 2 mm)
 Stroke 24 40" (619 7 mm)
 Dump cylinders (XI)
 Bore diameter 4 50" (114 3 mm)
 Rod diameter 2 50" (63 5 mm)
 Stroke 32 58" (819 9 mm)



DIMENSIONS

Height to –	
A. Top of ROPS cab	130 1" (3306 mm)
Drawbar	39.0" (992 mm)
B. Wheelbase	114.2" (2900 mm)
C. Ground clearance	18.7" (474 mm)
D. Angle of departure	29°
Width –	
Overall* w/o bucket	93 8" (2382 mm)
Centerline tread	72 8" (1850 mm)
Turning radius* – outside	203 7" (5175 mm)
Turning angle –	
From center	40°
Total angle	80°
Rear axle oscillation, total	24°

NOTE: *Dimensions taken with 20 5x25 L2/L3/XTLA II tires. Additional dimensions on pages 3 & 4

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
ROPS canopy	-295 lb (-134 kg)	-328 lb (-149 kg)	-303 lb (-137 kg)
20 5x25 12 ply L2 tires	-100 lb (-45 kg)	-76 lb (-35 kg)	-67 lb (-30 kg)
20 5x25 12 ply L3 tires	+228 lb (+104 kg)	+173 lb (+78 kg)	+153 lb (+69 kg)
20 5R25 XHA II tires	+380 lb (+172 kg)	+288 lb (+131 kg)	+255 lb (+116 kg)
Standard counterweight	-880 lb (-399 kg)	-2,027 lb (-920 kg)	-1,709 lb (-775 kg)

NOTE: **Unit equipped with Z-Bar loader arms, 2.5 yd³ (1.96 m³) general purpose pin on bucket w/bolt-on edge, 20 5R25 XTLA Michelin tires, ROPS cab with heater and A/C, full counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (79 kg) operator. Adjust select options from rated weight

PERFORMANCE DATA

	3.0 yd ³ GP (2.29 m ³)	2.75 yd ³ GP (2.10 m ³)	2.75 yd ³ GP (2.10 m ³)
621D Z-Bar*	Bucket w/Bolt-on Edge	Bucket w/Bolt-on Edge	Bucket w/Teeth & Segments
SAE bucket capacity – struck	2.56 yd ³ (1.96 m ³)	2.32 yd ³ (1.77 m ³)	2.32 yd ³ (1.77 m ³)
Heaped	3.00 yd ³ (2.29 m ³)	2.75 yd ³ (2.10 m ³)	2.75 yd ³ (2.10 m ³)
Bucket width – outside	102.4" (2602 mm)	102.4" (2602 mm)	102.4" (2602 mm)
Bucket weight	1,951 lb (885 kg)	1,856 lb (842 kg)	1,923 lb (872 kg)
E. Operating height – fully raised w/spillguard	198.3" (5037 mm)	195.3" (4960 mm)	195.3" (4960 mm)
F. Hinge pin height – fully raised	151.0" (3835 mm)	151.0" (3835 mm)	151.0" (3835 mm)
G. Overall length – bucket level on ground	277.0" (7036 mm)	274.6" (6974 mm)	280.4" (7121 mm)
Dump angle – fully raised	55°	55°	55°
H. Dump height – fully raised, 45° dump	110.5" (2806 mm)	112.2" (2850 mm)	108.1" (2754 mm)
J. Bucket reach – fully raised, 45° dump	39.9" (1013 mm)	38.1" (969 mm)	42.2" (1071 mm)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump	59.7" (1517 mm)	58.9" (1495 mm)	60.9" (1547 mm)
Operating load – ISO	9,708 lb (4403 kg)	9,795 lb (4443 kg)	9,750 lb (4423 kg)
Maximum material density – ISO	3,236 lb/yd ³ (1920 kg/m ³)	3,562 lb/yd ³ (2114 kg/m ³)	3,546 lb/yd ³ (2104 kg/m ³)
Tipping load – ISO			
Straight	22,434 lb (10,176 kg)	22,607 lb (10,254 kg)	22,517 lb (10,214 kg)
40° turn	19,416 lb (8807 kg)	19,590 lb (8886 kg)	19,501 lb (8845 kg)
Lift capacity –			
Full height	14,274 lb (6474 kg)	14,373 lb (6519 kg)	14,305 lb (6489 kg)
Maximum reach	20,379 lb (9244 kg)	20,484 lb (9292 kg)	20,416 lb (9261 kg)
Ground	22,598 lb (10,250 kg)	24,129 lb (10,945 kg)	24,082 lb (10,923 kg)
Breakout force w/tilt cylinder	23,237 lb (10,540 kg)	24,813 lb (11,255 kg)	24,749 lb (11,226 kg)
Maximum rollback –			
Ground	40°	40°	41°
Carry position	43°	43°	43°
@ Maximum reach	53°	53°	53°
@ Full height	55°	55°	55°
Dig depth	3.2" (82 mm)	3.0" (76 mm)	3.3" (84 mm)
L. Maximum grading angle w/bucket – back dragging	61°	60°	61°
Loader clearance circle	454.7" (11,549 mm)	453.1" (11,507 mm)	456.5" (11,595 mm)

	2.5 yd ³ GP (1.96 m ³)	2.5 yd ³ GP (1.96 m ³)	2.5 yd ³ GP (1.96 m ³)
621D XI	ACS Bucket w/Edge**	ACS Bucket w/Teeth & Segments**	JRB Bucket w/Edge***
E. Operating height – fully raised w/spillguard	210.7" (5352 mm)	210.7" (5352 mm)	209.9" (5332 mm)
F. Hinge pin height – fully raised	155.9" (3961 mm)	155.9" (3961 mm)	156.0" (3961 mm)
G. Overall length – bucket level on ground	280.3" (7121 mm)	285.5" (7252 mm)	287.1" (7293 mm)
Dump angle – fully raised	55°	55°	55°
H. Dump height – fully raised, 45° dump	113.3" (2877 mm)	109.9" (2792 mm)	108.7" (2762 mm)
J. Bucket reach – fully raised, 45° dump	44.9" (1141 mm)	48.9" (1242 mm)	48.8" (1239 mm)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump	66.7" (1694 mm)	68.9" (1751 mm)	68.2" (1731 mm)
Operating load – ISO	8,685 lb (3939 kg)	8,649 lb (3923 kg)	8,655 lb (3926 kg)
Maximum material density – ISO	3,265 lb/yd ³ (1937 kg/m ³)	3,252 lb/yd ³ (1929 kg/m ³)	3,254 lb/yd ³ (1931 kg/m ³)
Tipping load – ISO			
Straight	20,318 lb (9216 kg)	20,247 lb (9184 kg)	20,237 lb (9179 kg)
40° turn	17,370 lb (7879 kg)	17,299 lb (7847 kg)	17,311 lb (7852 kg)
Lift capacity –			
Full height	12,108 lb (5492 kg)	12,043 lb (5463 kg)	12,243 lb (5553 kg)
Maximum reach	17,580 lb (7974 kg)	17,519 lb (7947 kg)	17,767 lb (8059 kg)
Ground	30,837 lb (13,988 kg)	30,785 lb (13,964 kg)	30,952 lb (14,040 kg)
Breakout force – dump cylinder	26,739 lb (12,129 kg)	24,176 lb (10,966 kg)	23,909 lb (10,845 kg)
Loader clearance circle	450.2" (11,435 mm)	452.3" (11,488 mm)	453.2" (11,511 mm)

	3.0 yd ³ GP (2.29 m ³)	2.75 yd ³ GP (2.10 m ³)	2.75 yd ³ GP (2.10 m ³)
621D XR	Bucket w/Bolt-on Edge	Bucket w/Bolt-on Edge	Bucket w/Teeth & Segments
E. Operating height – fully raised w/spillguard	215.0" (5461 mm)	212" (5384 mm)	212" (5384 mm)
F. Hinge pin height – fully raised	167.7" (4260 mm)	167.7" (4260 mm)	167.7" (4260 mm)
G. Overall length – bucket level on ground	293.1" (7445 mm)	290.5" (7379 mm)	296.2" (7524 mm)
Dump angle – fully raised	49°	49°	49°
H. Dump height – fully raised, 45° dump	127.3" (3232 mm)	128.9" (3275 mm)	125.2" (3111 mm)
J. Bucket reach – fully raised, 45° dump	40.0" (1017 mm)	38.3" (972 mm)	42.3" (1074 mm)
K. Bucket reach – 7'0" (2.13 m) height, 45° dump	73.8" (1874 mm)	72.8" (1850 mm)	75.1" (1908 mm)
Operating load – ISO	7,915 lb (3590 kg)	8,013 lb (3635 kg)	7,970 lb (3615 kg)
Maximum material density – ISO	2,638 lb/yd ³ (1565 kg/m ³)	2,914 lb/yd ³ (1729 kg/m ³)	2,898 lb/yd ³ (1720 kg/m ³)
Tipping load – ISO			
Straight	18,389 lb (8341 kg)	18,588 lb (8431 kg)	18,502 lb (8392 kg)
40° turn	15,830 lb (7180 kg)	16,026 lb (7269 kg)	15,940 lb (7230 kg)
Lift capacity –			
Full height	13,893 lb (6302 kg)	13,988 lb (6345 kg)	13,921 lb (6314 kg)
Maximum reach	18,121 lb (8219 kg)	18,239 lb (8273 kg)	18,169 lb (8214 kg)
Ground	22,251 lb (10,093 kg)	22,519 lb (10,214 kg)	22,446 lb (10,181 kg)
Breakout force w/tilt cylinder	23,936 lb (10,857 kg)	25,569 lb (11,598 kg)	25,481 lb (11,558 kg)
Loader clearance circle	469.7" (11,931 mm)	468.0" (11,887 mm)	471.8" (11,983 mm)

2.5 yd ³ GP (1.96 m ³) Bucket w/Bolt-on Edge	2.5 yd ³ GP (1.96 m ³) Bucket w/Teeth & Segments
2.17 yd ³ (1.66 m ³)	2.17 yd ³ (1.66 m ³)
2.56 yd ³ (1.96 m ³)	2.56 yd ³ (1.96 m ³)
102.4" (2602 mm)	102.4" (2602 mm)
1,792 lb (813 kg)	1,859 lb (843 kg)
194.2" (4932 mm)	194.2" (4932 mm)
151.0" (3835 mm)	151.0" (3835 mm)
271.4" (6893 mm)	277.2" (7040 mm)
55°	55°
114.2" (2900 mm)	110.4" (2804 mm)
36.2" (919 mm)	40.2" (1021 mm)
57.9" (1470 mm)	60.0" (1524 mm)
9,883 lb (4483 kg)	9,839 lb (4463 kg)
3,861 lb/yd ³ (2291 kg/m ³)	3,843 lb/yd ³ (2280 kg/m ³)
22,798 lb (10,341 kg)	22,709 lb (10,301 kg)
19,766 lb (8966 kg)	19,677 lb (8925 kg)
14,441 lb (6550 kg)	14,373 lb (6520 kg)
20,558 lb (9325 kg)	20,490 lb (9294 kg)
25,562 lb (11,595 kg)	25,523 lb (11,577 kg)
26,562 lb (12,048 kg)	26,499 lb (12,020 kg)
40°	40°
43°	43°
53°	53°
55°	55°
2.8" (70 mm)	3.1" (78 mm)
60°	61°
451.4" (11,466 mm)	454.7" (11,551 mm)

**2.5 yd³ GP (1.96 m³)
JRB Bucket w/Teeth & Segments*****

209.9" (5332 mm)
155.9" (3961 mm)
293.0" (7441 mm)
55°
104.9" (2665 mm)
52.7" (1340 mm)
69.9" (1775 mm)
8,583 lb (3893 kg)
3,227 lb/yd ³ (1915 kg/m ³)
20,092 lb (9113 kg)
17,165 lb (7786 kg)
12,100 lb (5489 kg)
17,626 lb (7995 kg)
30,431 lb (13,803 kg)
21,695 lb (9840 kg)
455.8" (11,577 mm)

2.5 yd ³ GP (1.96 m ³) Bucket w/Bolt-on Edge	2.5 yd ³ GP (1.96 m ³) Bucket w/Teeth & Segments
210.9" (5357 mm)	210.9" (5357 mm)
167.7" (4260 mm)	167.7" (4260 mm)
287.6" (7304 mm)	293.3" (7450 mm)
49°	49°
130.9" (3325 mm)	127.1" (3229 mm)
36.2" (920 mm)	40.2" (1022 mm)
71.7" (1822 mm)	74.1" (1881 mm)
8,094 lb (3672 kg)	8,052 lb (3652 kg)
3,162 lb/yd ³ (1876 kg/m ³)	3,145 lb/yd ³ (1866 kg/m ³)
18,765 lb (8512 kg)	18,680 lb (8473 kg)
16,189 lb (7343 kg)	16,103 lb (7304 kg)
14,053 lb (6374 kg)	13,986 lb (6344 kg)
18,324 lb (8312 kg)	18,255 lb (8280 kg)
22,735 lb (10,312 kg)	22,660 lb (10,278 kg)
27,387 lb (12,422 kg)	27,299 lb (12,383 kg)
466.0" (11,836 mm)	469.7" (11,931 mm)

NOTE: *Z-Bar performance data shown w/full counterweight
 **XI lift arm with buckets for ACS Pro Series 2000[®] size 30 HD coupler
 ***XI lift arm with bucket for JRB 300HV coupler

Performance data unit equipped with 20.5R25 XTLA tires, ROPS cab w/heater and A/C, full counterweight, standard batteries, front and rear fenders, full fuel and 175 lb (79 kg) operator Specifications per SAE J732, J1234, J695, J742 and J818

INSTRUMENTATION

Electronic Information Center
Displays/Gauges –
Speedometer
Tachometer
Direction selected F/N/R
Transmission modes –
Auto shift/Manual shift
Gear selected
Gear position
Turn signal indicator
Engine coolant temperature
Engine oil pressure
Fuel level
Transmission oil temperature
Hydraulic oil temperature
Voltmeter
Hourmeter
Indicator lights –
Beacon*
Work lights
Loader control lockout
Low coolant
Brake pressure
Master indicator
Secondary steering*
Parking brake
Air conditioning*
Hydraulic oil filter
Transmission filter
Air filter
Audible alarms –
Caution alarm
Critical alarm
Backup alarm
Horn

NOTE: *If equipped with option.

OPERATOR ENVIRONMENT

ROPS canopy
Key start
Articulated power steering
w/tilt column
Fully adjustable, vinyl
suspension seat
Foot throttle
(1) Lever loader control w/wrist rest
Cup holder
Coat hook
(2) Interior rearview mirrors
3" (76 mm) retractable seat belt
Storage tray behind seat
Lunch box retainer strap
Dual brake pedals
F/N/R shuttle switch

LOADER

Z-bar loader linkage
Single control for lift and tilt
Positive hold float
Automatic return-to-dig
Automatic height control
Automatic return-to-travel
Automatic self-leveling on XI
Brake pedal transmission disconnect
Bucket position indicator on bucket
(Z-bar only)

CYCLE TIME

Raise w/rated bucket load 5.4 sec
Dump w/rated bucket load
Z-Bar & XR 1.5 sec
XI 1.7 sec
Lower (empty)
Power down 5.0 sec
Float down 4.4 sec

SERVICE CAPACITIES

Fuel tank 50.0 gal (189 L)
Hydraulic system
Total 30.0 gal (113.6 L)
Reservoir 15.0 gal (56.8 L)
Transmission
Service w/filter 5.0 gal (18.9 L)
Front and rear axle
Total axle (each) 23.2 qt (22 L)
Engine oil w/filter 17.1 qt (16.2 L)
Cooling system (-40) 6.3 gal (24.0 L)

OPERATING WEIGHTS

Z-Bar

Unit equipped with ROPS
cab with heater and A/C,
full counterweight,
20.5R25 XTLA Michelin tires,
front and rear fenders,
2.5 yd³ (1.96 m³) general purpose
loader bucket w/edge,
full fuel, 175 lb (79 kg)
operator 26,083 lb (11,831 kg)

XI

Unit equipped with ROPS
cab with heater and A/C,
full counterweight,
20.5R25 XTLA Michelin tires,
front and rear fenders,
2.5 yd³ (1.96 m³) ACS loader
bucket w/edge and coupler,
full fuel, 175 lb (79 kg)
operator 27,877 lb (12,645 kg)

XR

Unit equipped with ROPS
cab with heater and A/C,
full counterweight,
20.5R25 XTLA Michelin tires,
front and rear fenders,
2.5 yd³ (1.96 m³) general purpose
loader bucket w/edge,
full fuel, 175 lb (79 kg)
operator 26,364 lb (11,958 kg)

STANDARD EQUIPMENT

OPERATOR'S ENVIRONMENT

See page 5

ENGINE

Case Family III 668TA/M2
Tier II certified
Turbocharger
Charge air cooling
Automatic fan belt tensioner
Integral engine oil cooling
Fuel filter w/water trap
Dual element air cleaner
70 amp alternator
(2) 900 CCA 12-volt batteries
Liquid-cooled radiator
Non spark-arresting muffler
Mid-mounted cooling module

LOADER

See page 5

DRIVETRAIN

4-wheel drive
4F/3R Selectable autoshift/manual
shift transmission

Electronic Control Module –
Programmable, computer
controlled proportional shifting
with programmable gear selection
Onboard diagnostics
Single lever electronic shift control
F/N/R switch in loader
control handle
Downshift button
Torque converter
Outboard planetary axles
Limited-slip differentials
Transmission oil cooler
Brake pedal transmission disconnect
Hydraulic wet disc brakes
Spring-applied hydraulic release
parking brake
Limp-Home Mode
Lubed-for-life drive shaft

HYDRAULICS

2-spool loader control valve
Flow-amplified, wide-angle steering
(8) Diagnostic quick couplers

OTHER

Front and rear fenders
Lights –
(2) Front driving headlights
(high/low beam)
(2) Front flood
(2) Stop/tail lights and backup light
(2) Rear flood
Front and rear turn signal/flash
Standard counterweight
Drawbar hitch
Articulation locking bar
Lift arm locking bar
Lift and tie-down points – front/rear
Backup alarm
Remote drain points

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab with –
Pressurized, air filtering
Anti-glare window strip and visor
Defroster
Cloth-covered mechanical
suspension seat
Side windows, partial/fully opening
Dome light
Wipers, rear and intermittent front
Windshield washers, front and rear
Rubber floor mat
Cloth-covered air-suspension seat
2" (51 mm) retractable seat belt
Sound Shield noise suppression
package
Cab heater
Cab air-conditioning w/heater
Radio
Radio-ready (12-volt)
Auxiliary power (12-volt)
Lighter (24-volt)

Rotating beacon
External rearview mirrors
RH steps and platform

ENGINE

Cold weather grid heater
starting aid
Engine block heater
Spark arresting muffler

LOADER

XT Tool-Carrier Loader Arms
XR Loader Arms
Hydraulic attachment coupler
Attachment auxiliary hydraulics
Loader controls –
3-spool, 2-lever
Buckets (see page 3 & 4)
Loader coupler systems

HYDRAULICS

Auxiliary hydraulics
Ride Control
Secondary steering
3 or 4-spool loader valves with
2 or 3-lever loader control
Hydraulic reversing fan

TIRES

20.5R25 GP2B (dirt)
20.5x25 RT3B (rock)
20.5x25 - 12 PR L2 bias (dirt/traction)
20.5x25 - 12 PR L3 bias (rock)
20.5R25 XTLA radial (dirt/traction)
20.5R25 XHA radial (rock)

OTHER

Special paint
Full coverage fenders
Tool box
Optional full counterweight Z-Bar
Transmission Guards
Rear frame side covers

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: CNH America LLC reserves the right to change these specifications without notice and without incurring any obligation relating to such change. CNH America LLC does not warrant the safety or reliability of attachments from other manufacturers

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