



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

# Request for Quotation

RFO NUMBER
707EC005

PAGE
1

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

\*413083743 01 304-755-7788  
 RUDD EQUIPMENT COMPANY  
 PO BOX 610  
 NITRO WV 25143

VENDOR

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

SHIP TO

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
09/05/2006	NET 30	BESTWAY	BUCKHANNON, WV	PREPAID
BID OPENING DATE: 09/20/2006		BID OPENING TIME: 01:30PM		

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
CHANGES TO THE SPECIFICATIONS PER THE ATTACHED						
BID OPENING DATE AND TIME CHANGED						
FROM: 09-13-06 AT 1:30 P.M.						
TO: 09-20-06 AT 1:30 P.M.						
NO OTHER CHANGES						
0001	10	EA		760-47	\$108,900.00	\$1,089,000.00
4 WHEEL DRIVE, RUBBER TIRED ENDLOADER						
***** THIS IS THE END OF RFQ 707EC005 *****					TOTAL:	\$1,089,000.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 304-755-7788	DATE 9/20/06
TITLE VP	FEIN 61-044-5955-001	ADDRESS CHANGES TO BE NOTED ABOVE

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED '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: RUDD EQUIPMENT COMPANY

Address: P.O. BOX 610 NITRO, WV 25143

Telephone Number: 304-755-7788

Years Bidder has been registered to do business with the State of West Virginia: 19 YRS

Years Company has been an authorized dealer for proposed unit: 3 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>\$108,900</u>	per unit
		11-20	_____	per unit
		21-30	_____	per unit
		31 and over	_____	per unit

X6.0 SPECIFICATIONS - GENERAL

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

VOLVO L60E                      1ST QUARTER 2007  
 Is descriptive literature, fully describing proposed unit attached to your bid? X 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? X YES \_\_\_\_\_ NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit? X 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:**

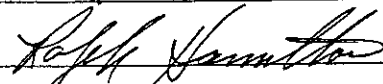
The vendor must be licensed in accordance with any and all state requirements to do business with the state of West Virginia

**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](http://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: RUDD EQUIPMENT COMPANY

Authorized Signature:  Date: 9-20-2006

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.

## 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

x

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)

12 MONTHS 2,500 HRS

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.

ED KELLE EVANSVILLE, INDIANA

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

NITRO, WV 95%

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: 5 % 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      \$ 99.00 per mechanic hour
- B. Travel Time Charge      \$ 99.00 per mechanic hour  
(Specify if one-way)      \_\_\_\_\_; port to port ✓
- C. Mileage Charge      \$ 2.45 per vehicle mile  
(Specify if one-way)      \_\_\_\_\_; port to port ✓
- D. Field Mechanic Rate      \$ 99.00 per mechanic hour
- E. Specify period of time that prices are in effect: 12 MONTHS
- F. Surcharge for miscellaneous items: 2%

## 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: VOLVO Model: LG6E

X8.0 Endloader Specification:

X8.1 Operating weight: 25,000 pounds (exclusive of tire ballast)

X8.1.1 Breakout force: 19,740 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: 15,590 pounds

- X8.4 Overall height: 10'6" to top of cab
- X8.4.1 Dumping clearance at maximum height and 45° dump angle: 9'5" 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 139 HP and torque to operate machine and hydraulic system at maximum efficiency?  YES  NO  
Specify HP: \_\_\_\_\_
- 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 \_\_\_\_\_ reserve capacity \_\_\_\_\_

## X8.14 Charging System:

X8.14.1 Alternator AMPS: \_\_\_\_\_ 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 4?

Top forward ground speed: 25.9 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: +13 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: 2500 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 17.5 R25
- X8.21.2 Are tires grader/loader type tubeless radials front and rear?  YES  NO  
Specify size: 17.5 R25
- X8.21.3 Overall tire width (outside left to outside right): 8 feet 2 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
- 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 trammimg 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:

\_\_\_\_\_

\_\_\_\_\_

- 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: 1.75 Cu Yd. Heaped capacity: 2.1 Cu Yd
- X8.25.2 Bucket width: 96 inches
- X8.25.3 Bucket roll back 45 degrees at ground level and dump at full height  
45 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 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: 3/4 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: 12 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:  
DARK BLUE
- X8.28.8 Describe color and type of material of lower stripe:  
LIGHT GOLD
- 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  
ASTM D3359-74 METHOD B
- 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