



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  
**708EC018**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**MICHAEL AUSTIN**  
**304-558-2402**

VENDOR

\*709035314      304-485-4410  
**MATHENY MOTOR TRUCK COMPANY**  
**PO BOX 1304**  
  
**PARKERSBURG WV 26102-1304**

SHIP TO

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
06/16/2008	NET 30 DAYS	GROUND	BUCKHANNON WV	PREPAID

BID OPENING DATE: **07/23/2008**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		065-30	\$138,700.00	\$138,700.00
<p><b>62,000 GVW CAB AND CHASSIS, DUMP BODY</b></p> <p><b>OPEN END CONTRACT</b></p> <p><b>TO PROVIDE 62,000 GVW CAB AND CHASSIS DUMP BODY, HYDRAULIC SYSTEM PER THE ATTACHED SPECIFICATIONS.</b></p> <p><b>THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITAL COMPLEX, BUILDING 15, 2019 WASHINGTON ST. EAST, CHARLESTON WV 25305 AT 10:00 AM ON 07/10/2008. FAILURE TO ATTEND THE PRE-BID WILL RESULT IN BID DISQUALIFICATION.</b></p> <p><b>QUESTIONS: QUESTIONS MUST BE RECEIVED BY CLOSE OF BUSINESS (5:00 PM EST) ON THURSDAY 07/03/08. NO FURTHER QUESTIONS WILL BE ACCEPTED AFTER THE DATE STATED.</b></p> <p><b>SEND YOUR QUESTIONS TO: PURCHASING DIVISION            ATTENTION MICHAEL AUSTIN            2019 WASHINGTON STREET EAST            CHARLESTON, WV 25305</b></p> <p><b>QUESTIONS MAY BE SENT VIA FAX, E-MAIL OR REGULAR MAIL            E-MAIL: MICHAEL.D.AUSTIN@WV.GOV            FAX: 304-558-4115</b></p> <p><b>IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</b></p> <p><b>EXHIBIT 2</b></p>						

**RECEIVED**

2008 SEP 10 P 12: 22

PURCHASING DIVISION  
 STATE OF WV

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. J. Matheny</i>	TELEPHONE 304-485-4418	DATE 07/29/08
TITLE CEO	FEIN 55-0320770	ADDRESS CHANGES TO BE NOTED ABOVE

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

**GENERAL TERMS & CONDITIONS  
REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)**

1. Awards will be made in the best interest of the State of West Virginia.
2. The State may accept or reject in part, or in whole, any bid.
3. All quotations are governed by the *West Virginia Code* and the *Legislative Rules* of the Purchasing Division.
4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125.00 registration fee.
5. All services performed or goods delivered under State Purchase Orders/Contracts are to be continued for the term of the Purchase Order/Contract, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30.
6. Payment may only be made after the delivery and acceptance of goods or services.
7. Interest may be paid for late payment in accordance with the *West Virginia Code*.
8. Vendor preference will be granted upon written request in accordance with the *West Virginia Code*.
9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller.
11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract.
12. Any reference to automatic renewal is hereby deleted. The Contract may be renewed only upon mutual written agreement of the parties.
13. **BANKRUPTCY:** In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order.
14. **HIPAA Business Associate Addendum** - The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (<http://www.state.wv.us/admin/purchase/vrc/hipaa.htm>) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Covered Entity (45 CFR §160.103) and will be disclosing Protected Health Information (45 CFR §160.103) to the vendor.

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**INSTRUCTIONS TO BIDDERS**

1. Use the quotation forms provided by the Purchasing Division.
2. **SPECIFICATIONS:** Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as **EQUAL** to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
3. Complete all sections of the quotation form.
4. Unit prices shall prevail in cases of discrepancy.
5. All quotations are considered F.O.B. destination unless alternate shipping terms are clearly identified in the quotation.
6. **BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications.

**SIGNED BID TO:**

Department of Administration  
Purchasing Division  
2019 Washington Street East  
Post Office Box 50130  
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<b>06/16/2008</b>				

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LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<p><b>LIFE OF CONTRACT:</b> THIS CONTRACT BECOMES EFFECTIVE ON ..... AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS 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><b>UNLESS SPECIFIC PROVISIONS ARE STIPULATED IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS, AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</b></p> <p><b>RENEWAL:</b> 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><b>CANCELLATION:</b> 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><b>OPEN MARKET CLAUSE:</b> 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>						

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06/16/2008				

BID OPENING DATE: **07/23/2008** BID OPENING TIME **01:30PM**

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<p><b>QUANTITIES:</b> QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIES BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT 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><b>ORDERING PROCEDURE:</b> 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><b>BANKRUPTCY:</b> 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 4</p> <p><b>LOCAL GOVERNMENT BODIES:</b> UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST</p>						

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<p><b>ADDENDUM ACKNOWLEDGEMENT</b></p> <p>I HEREBY ACKNOWLEDGE RECEIPT OF THE FOLLOWING CHECKED ADDENDUM(S) AND HAVE MADE THE NECESSARY REVISIONS TO MY PROPOSAL, PLANS AND/OR SPECIFICATION, ETC.</p> <p>ADDENDUM NO.'S:</p> <table border="0"> <tr> <td>NO. 1</td> <td>YES</td> <td>..</td> <td><i>M.J. Matheny</i></td> <td>NO. 6</td> <td>YES</td> <td>...</td> <td><i>M.J. Matheny</i></td> </tr> <tr> <td>NO. 2</td> <td>YES</td> <td>...</td> <td><i>M.J. Matheny</i></td> <td>NO. 7</td> <td>YES</td> <td>.....</td> <td><i>M.J. Matheny</i></td> </tr> <tr> <td>NO. 3</td> <td>YES</td> <td>...</td> <td><i>M.J. Matheny</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NO. 4</td> <td>YES</td> <td>...</td> <td><i>M.J. Matheny</i></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NO. 5</td> <td>YES</td> <td>...</td> <td><i>M.J. Matheny</i></td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>I UNDERSTAND THAT FAILURE TO CONFIRM THE RECEIPT OF THE ADDENDUM(S) MAY BE CAUSE FOR REJECTION OF BIDS.</p> <p>VENDOR MUST CLEARLY UNDERSTAND THAT ANY VERBAL REPRESENTATION MADE OR ASSUMED TO BE MADE DURING ANY ORAL DISCUSSION HELD BETWEEN VENDOR'S REPRESENTATIVES AND ANY STATE PERSONNEL IS NOT BINDING. ONLY THE INFORMATION ISSUED IN WRITING AND ADDED TO THE SPECIFICATIONS BY AN OFFICIAL ADDENDUM IS BINDING.</p> <p style="text-align: right;">..... <i>M.J. Matheny</i> .....</p> <p style="text-align: center;">SIGNATURE</p> <p style="text-align: center;">MATHENY MOTOR TRUCK CO. .... COMPANY</p>							NO. 1	YES	..	<i>M.J. Matheny</i>	NO. 6	YES	...	<i>M.J. Matheny</i>	NO. 2	YES	...	<i>M.J. Matheny</i>	NO. 7	YES	.....	<i>M.J. Matheny</i>	NO. 3	YES	...	<i>M.J. Matheny</i>					NO. 4	YES	...	<i>M.J. Matheny</i>					NO. 5	YES	...	<i>M.J. Matheny</i>				
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<p>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>(X) 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 &amp; REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER 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</p>						

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<p><b>CONTRACT OR PURCHASE ORDER.</b></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: <u>MATHENY MOTOR TRUCK CO.</u></p> <p>DATE: <u>JULY 29, 2008</u></p> <p>SIGNED: <u><i>M. J. Matheny</i></u></p> <p>TITLE: <u>CEO</u></p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) 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".</p>						

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***** THIS IS THE END OF RFQ 708EC018 ***** TOTAL:						<u>\$138,700.00</u>

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X5.0 AWARD CRITERIA;

X5.1 Prices for units:

1-25	<u>\$138,700.00</u> per unit
26-50	<u>\$138,700.00</u> per unit
51 and over	<u>\$138,700.00</u> per unit

X6.0 SPECIFICATIONS - GENERAL

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

VOLVO TRUCKS NORTH AMERICA, VHD, 64F200 2009

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

NOTE: Vendors should type Bidder's Evaluation Report

DIVISION OF HIGHWAYS EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT NO. 377-2-E

OPEN END CONTRACT 62,000 GVW CAB AND CHASSIS, DUMP BODY, AND HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 377-2-E, 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. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 708EC018

Bidder's Name: MATHENY MOTOR TRUCK CO.

Address: THIRD & ANN STREETS-P.O. BOX 1304 -PARKERSBURG, WV 26102-1304

Telephone Number: 304-485-4418

Years Bidder has been registered to do business with the State of West Virginia: 86 YRS.

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

X3.2 Have you complied with all mandatory specifications? [X] YES [ ] NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 120 Calendar Days After Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 180 Calendar Days After Receipt of Purchase Agreement

NOTE: Vendors can complete Bidder's Evaluation Report at Purchasing's Web Site www.state.wv.us/admin/purchase

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 directly to Training Academy prior to the delivery of the pilot?  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

Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included?  YES  NO

Describe: Per bid request. see attachment

Engine: VOLVO D13 375h.p.

**X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE****THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.**

(If additional lines are needed, make copies of form.)

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

Per bid request. See attachment

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.

DOH is allowed to make warranty repairs as approved by Volvo Truck  
The DOH will have to follow Volvo guidelines when making repairs.

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

Parkersburg - \$ 1.2 Million      Princeton- availability unknown  
Wheeling- availabilty unknown.      Huntington- availibilty unknown  
South Charleston- availabilty unknown      Keyser- availibilty unknown

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:	<u>20</u>	% discount
B.	Terms: Net 60	Manufacturer's published list price less:	<u>15</u>	% discount
C.	Terms: Net 90	Manufacturer's published list price less:	<u>10</u>	% 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	\$ <u>85.00</u> per mechanic hour
B.	Travel Time Charge (Specify if one-way)	\$ <u>105.00</u> per mechanic hour <u>                    </u> ; port to port <u>YES</u>
C.	Mileage Charge (Specify if one-way)	\$ <u>                    </u> per vehicle mile <u>No Charge</u> ; port to port <u>No Charge</u>
D.	Field Mechanic Rate	\$ <u>105.00</u> per mechanic hour
E.	Specify period of time that prices are in effect:	<u>One Year</u>
F.	Surcharge for miscellaneous items:	<u>10</u> % Of <u>3</u> labor      maximum \$50.00



**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.

**X8.0 SPECIFICATIONS - CAB & CHASSIS**

Manufacturer: VOLVO TRUCKS NORTH AMERICA Model: VHD64F200

**X8.1 GVWR rating:** 62,000 lbs.

**X8.2 Cab to axle dimension:** 120 inches usable

**X8.2.1 After frame length** 61 inches

**X8.3 Wheelbase:** 205 inches

**X8.3.1 Are the wheelbase and CA dimensions adjusted to provide optimum legal weight distribution**  YES  NO

**X8.3.2 Bumper to back of cab:** 113.6 inches dimension excluding frame extension

- X8.4 Frame: Will the manufacturer provide a frame that meets or exceeds all Federal requirements for GVWR specified that extends forward beyond the grille a minimum of 14 inches.  YES  NO**
- X8.4.1 Frame material: 120,000 PSI yield strength  
Is frame extension "parent rail" material  YES  NO**
- X8.4.2 R.B.M. 2,820,000 Ins./Lb. Per rail  
Have you submitted shop drawings pertaining to frame construction and frame extension  YES  NO**
- X8.4.2.1 Where engine and radiator adjustments are required 1,965,702 in lb. per rail (RBM)**
- X8.4.3 Main frame and any required liners straight channel  YES  NO  
Or offset channel N.A. YES N.A. NO full length**
- X8.4.4 Is minimum frame RBM approved by manufacturers Engineering Department  YES  NO**
- X8.4.5 Does front frame accommodate the Department's standard hydraulic PTO shaft and pump, and the plow frame  YES  NO**
- X8.4.5.1 Easy service accessibility  YES  NO**
- X8.5 Cab: Is cab manufacturers standard steel and/or fiberglass  YES  NO  
Is hood tilt hood and fenders either steel and/or fiberglass and provided with rear air bag suspension SEE ADDENDUM#  YES  NO**
- X8.5.1 Cab door locks, both doors, keyed alike  YES  NO**
- X8.5.2 Dual sun visors  YES  NO**
- X8.5.3 Arm rests, both sides  YES  NO**
- X8.5.4 Seats: Fully adjustable air ride high back with head rest, cloth covered both left hand and right hand sides  YES  NO**
- Clearance between seats: 24 inches**
- X8.5.5 Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing under the mats  YES  NO**
- X8.5.6 Turn Signals: Manufacturers standard with hazard warning switch  YES  NO**

- X8.5.7 Heater and defroster: Fresh air type, heaviest duty  YES  NO
- X8.5.8 Windshield wipers and washers: Manufacturer's heaviest duty with intermittent feature with manufacturers largest reservoir filled with antifreeze type solvent  
 YES  NO  
 ↑  
 SEE ADDENDUM#2
- X8.5.9 Instruments: All instruments dash mounted except where specified  
 YES  NO
- X8.5.9.1 Coolant, oil pressure gauges, to have both dial type readout and either an audible or visual alarm to warn operator when safe operating conditions are exceeded  YES  NO
- X8.5.9.2 Voltmeter or ammeter  YES  NO
- X8.5.9.3 Engine RPM tachometer  YES  NO
- X8.5.9.4 Speedometer with odometer  YES  NO
- X8.5.9.4.1 Provisions for dual speedometer leads made available**  
 YES  NO
- X8.5.9.5 Primary air pressure gauge  YES  NO
- X8.5.9.6 Auxiliary air pressure gauge  YES  NO
- X8.5.9.7 Air filter manufacturers heaviest duty dual element type that meets all requirements of extended engine warranty  YES  NO
- <sup>"OVERTED"</sup>  
 X8.5.9.7.1 Air intake system fitted with inside/outside air; actuated by "air" valve  
 YES  NO  
 ↑  
 SEE ADDENDUM #2
- X8.5.9.8 If unit is equipped with front air intake, is a cable control valve to enable operator to divert air intake to engine compartment during plowing application provided - DO NOT USE FRONTAL AIR INTAKE.**  YES  NO
- X8.5.9.9 Air filter restriction indicator gauge dash mounted  YES  NO
- X8.5.9.10 Engine hourmeter (controlled by engine operation, not by key switch)  
 YES  NO
- X8.5.9.11 Fuel level reading  YES  NO
- X8.5.9.12 Parking brake to be dash controlled with indicator light  YES  NO

- X8.5.9.13 Is the sound/weather insulation package the manufacturer's best for proposed cab  
 YES  NO
- X8.5.9.14 Outside temperature control with in cab digital read out and accomplished without use of mirrors**  
 YES  NO
- X8.5.10 Rearview Mirrors:
- X8.5.10.1 Mirrors are West Coast type power adjustable with convex spot mirror  
 YES  NO  
 Size: 7 X 16
- X8.5.10.2 Both mirrors heated type with stainless steel  YES  NO or  
 aluminum  YES  NO hardware, heads, and fasteners
- X8.5.11 Grab Handle: <sup>↑SEE ADDENDUM #2</sup> Right hand and left hand sides of cab, rear of door opening  
 YES  NO  
<sup>↑SEE ADDENDUM #2</sup>
- X8.5.12 Air horns, with snow shields, cab mounted with adequate clearance for future  
 installation of body cab shield  YES  NO
- X8.5.13 Unit includes lockable hand operated throttle control or electronic control for idle  
 up and idle down for hydraulic flow rate  YES  NO
- X8.5.14 Manufacturer will provide for stationary grille or grille with cutout area to allow tilt  
 hood to clear snow plow mount  YES  NO  
 Stone/gravel guard provided  YES  NO
- X8.5.15 Air conditioning: Manufacturers standard package for model bid. "APADS" to  
 specified air condition system  YES  NO
- X8.5.16 Radio: AM/FM stereo with weatherband radio feature  YES  NO
- X8.5.17 Glass: Manufacturers tinted safety glass (all locations)  YES  NO
- X8.5.17.1 Dual power windows  YES  NO
- X8.5.18 Manufacturers engine cover or dash mounted extended two (2) cup drink holder  
 YES  NO
- X8.5.19 Front mudflaps manufacturers standard for unit  YES  NO
- X8.5.20 Emergency triangle warning kit, with hold down fastened in cab  
 YES  NO  
 Manufacturers: James King Part No. 1005

X8.5.21 Manufacturers tilt steering column with cruise control feature or provide locking hand operated throttle steering wheel 18 inches diameter  YES  NO

X8.5.22 Fire extinguisher - rechargeable with vehicle mount. Mounted in cab for easy and quick access  YES  NO

Manufacturer: Kiddle Part No. 3915188

X8.5.23 Accessories not indicated above but advertised as standard equipment provided  YES  NO

X8.5.24 If successful vendor, will you provide complete list of all filters required for normal maintenance  YES  NO

X8.6 Engine: Engine manufacturer will make provisions for front mounted hydraulic pump to crankshaft pulley  YES  NO

X8.6.1.1 Diesel Engine:

HP: 375 Peak torque: 1450 lbs. ft.

Manufacturer: VOLVO Model: D13 Liter: 13

X8.6.1.2 1500 watt in block engine heater  YES  NO

X8.6.1.2.1 One piece and waterproof electrical cable from heater to plug, location - left side under driver door  YES  NO

X8.6.1.3 In line fuel heater with thermostatically controlled by pass maintain #2 diesel fuel temperature above cloud point before diesel fuel passes through the filter

↑SEE ADDENDUM #2  YES  NO

Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

X8.6.1.3.1 Is engine fuel system equipped with primer pump  YES  NO

X8.6.1.4 Exhaust:

X8.6.1.4.1 Single vertical exhaust pipe with underbody muffler that will meet all Federal noise abatement requirements; exhaust to the passenger (right) side of unit  YES  NO

**X8.6.1.4.2 Tail pipe shielded or insulated to protect personnel from burns when entering or exiting the cab**  YES  NO

Shield 180 degrees to 360 degrees **and of non-rustable material such as stainless steel or aluminum**  YES  NO

Manufacturer: Volvo

**X8.6.1.4.3 Exhaust pipe with rain cap or exhaust turn out**  YES  NO

**X8.6.2 Engine Brake:**

Manufacturer: VOLVO Model: 1-VEB

SEE ADDENDUM #2

**X8.6.3 Engine components facing wheel areas, on both sides, and areas to the rear of wheels shielded by means of rubber skirts supported by easily removable steel rods**

↑SEE ADDENDUM #2  YES  NO

**X8.7 Cooling System: The cooling system capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation**

YES  NO

**X8.7.1 The system incorporates a thermostat and bypass for warm up and filled with permanent OAT type extended life or equal antifreeze rated to a -30 degree F or lower** ↑SEE ADDENDUM #2  YES  NO

**X8.7.2 Is the largest factory available engine cooling capacity compatible with engines and transmission referenced and for continuous high engine output under extreme temperatures and/or operating conditions due to prolonged snow plowing operations in low gears**  YES  NO

**X8.7.3 Unit is fitted with provisions for visually monitoring coolant with necessitating removal of the cap from the radiator or expansion tank**  YES  NO

**X8.7.4 Radiator mounting provides adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft**  YES  NO

**X8.7.5 The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft 3 inches to insure adequate clearance for PTO drive shaft**

**X8.7.6 Radiator screen guard to protect radiator from foreign objects**  YES  NO

**X8.8 Fuel Tank:**

**X8.8.1 Safety type aluminum fuel tanks per requirements of FMVSS**  YES  NO

- X8.8.2 Single aluminum fuel tanks:  YES  NO Capacity (usable) 100 US gallons  
Frame mounted  YES  NO
- X8.8.3 Driver and passenger entrance steps - grated self cleaning safety step  YES  NO
- X8.8.3.1 All edges banded on the outer perimeter  YES  NO
- X8.8.3.2 Top of first step 21 inches above ground
- X8.8.4 System top draw and top return line  YES  NO
- X8.9 Electrical System:
- X8.9.1 Type: Manufacturer's 12 volt negative ground system with manufacturers radio interference suppression  YES  NO
- X8.9.1.1 Circuit breaker equipped in easily accessible location, weatherproof  YES  NO
- X8.9.2 Four (4) heavy duty, 12 volt batteries, maintenance free  YES  NO
- X8.9.2.1 <sup>↑</sup>SEE ADDENDUM #2 Reserve capacity: \_\_\_\_\_ minutes at 80 degrees F
- X8.9.2.2 <sup>↑</sup>SEE ADDENDUM #2 Cold Crank AMPS: \_\_\_\_\_ total at 0 degrees F
- X8.9.3 <sup>↑</sup>SEE ADDENDUM #2 Alternator capacity: 110 AMP with internal regulator  YES  NO
- X8.9.4 Wiring: Heavy duty hypalon type in heavy duty sheathing, bundled with lacing cords or non metallic tie straps  YES  NO
- X8.9.5 Lighting: Provisions made available for all required lighting on completed unit (Number, location, and color) to conform to WVMV Code  YES  NO
- X8.9.6 Auxiliary snow plow/salt spreader lighting package:
- X8.9.6.1 Provisions in left rear back of cab for manufacturers approved wiring and weather proof disconnect plug to operate the following lights on truck mounted chemical spreader  YES  NO
- <sup>↑</sup>SEE ADDENDUM #2  
Manufacturer and model: Cole Hersee 12081
1. One sealed beam flood lamp  YES  NO
  2. Left and right combination brake/turn and tail lights  YES  NO
  3. One strobe warning light  YES  NO

**X8.9.7 Provisions are made for manufacture approved wiring and weatherproof disconnect plug in line six (6) pin connector with approximately three (3) foot "pigtail" to operate combination left and right turn/park lights/auxiliary headlights**  YES  NO

**Manufacturer and model:** Weather Pac 12010975

**X8.9.7.1 Provisions for weatherproof disconnect plug located at lower left front grille-bumper area**  YES  NO

All wiring connections weatherproof with wiring encased in wire looms  YES  NO

**X8.9.7.2 7-way trailer connection light socket mounted at rear of truck frame**  YES  NO

**Manufacturer and model:** Cole Hersse 12081

**X8.10 Power Train Overview:**

**Lubricants for front axle hubs and differentials, manual transmission, transfer cases, and all rear differentials meet or exceed all appropriate MIL and SAE specifications for synthetic lubricants and have all plugs identified as synthetic or painted red**  YES  NO  
 ↑SEE ADDENDUM #2

**X8.10.1 Transmission:** ALLISON  
**Manufacturer transmission oil cooler**  YES  NO

↑SEE ADDENDUM #2

**X8.10.1.1 Does transmission torque capacity meet specified engine torque**  YES  NO

**X8.11 Driveline:**

**X8.11.1 Manufacturer:** SPICER **Model:** TH-C2

**X8.12 Rear Axle:**

**X8.12.1 Manufacturer:** MERITOR **Model:** RT46-160P

**X8.12.2 Unit equipped with four (4) wheel dual reduction with inner axle power divider**  YES  NO  
 SEE ADDENDUM # 7

**X8.12.3 Ratio: Does gear ratio allow vehicles to be capable of a top speed of 70 MPH**  YES  NO

**X8.12.4 Specify housing type** RUGGED SINGLE - PIECE



X8.12.5 Rear wheel seals: Dana Spicer

X8.12.6 Drain plug, magnetic  YES  NO

X8.13 Front Suspension:

X8.13.1 Capacity at ground each front spring: 10,400 lbs.; total spring capacity 20,800 lbs.

X8.13.2 Front spring pins or bearings/bushing furnished with 360 degree grease grooves to insure adequate lubricant penetration  YES  NO

SEE ADDENDUM #2

X8.13.3 Spring hangers heavy castings with sufficient pin and bearing surface to render trouble free service  YES  NO

X8.14 Rear Suspension:

Manufacturer: HENDRICKSON Model: RT463

X8.15 Front Axle:

**X8.15.1 Capacity: 20,800 lbs.**

X8.15.1.1 Front axle, drag links, and tie rods have grease zerks installed  YES  NO

X8.15.2 Heavy duty shock absorbers  YES  NO

X8.15.3 Front wheel seals oil lubricated type  YES  NO  
Manufacturers: \_\_\_\_\_

SEE ADDENDUM #2

**X8.15.4 Adequate tire clearance at maximum turning angles  YES  NO**

X8.16 Brakes:

X8.16.1 Type: Full air, with manufacturers ABS in compliance with most current FMVSS requirements  YES  NO

**X8.16.2 Compressor:**

Manufacturer: WABCO Model: SS636 Cubic ft. 31.8

SEE ADDENDUM #2

X8.16.3 Service Brake Size:

X8.16.3.1 Front: 16.5 inch x 7 inch  
S Cam  YES  NO or power front disc brake system  YES  NO

- X8.16.3.2 Quick change type single  YES  NO or  
double anchor pin if drum type brakes are furnished  YES  NO
- X8.16.3.3 Rear: 16.5 inch x 7 inch  
S cam with quick change type single  YES  NO or  
double pin  YES  NO
- X8.16.4 Drum brakes have automatic slack adjusters and clearance sensing type only, with  
adjustment on application of brake  YES  NO
- X8.16.5 Parking Brake: Rear wheel spring type  YES  NO  
Manufacturer: MGM Model: TR-TS - severe service spring  
brakes
- X8.16.5.1 Parking brake provides modulated emergency braking via the foot valve in the  
event of a rear service system failure  YES  NO
- X8.16.6 Air dryer with heater above road surface: 24 inches**  
Manufacturer: Meritor Model: 1200UP with spin on desiccant cartridge  
 YES  NO
- X8.16.6.1 All electrical connectors for drain valve and air dryer covered with heat shrink  
material or have sealed connections  YES  NO
- X8.16.7 Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brake  
 YES  NO
- X8.16.8 Low air pressure warning light and buzzer  YES  NO
- X8.16.9 Rear service brake chambers and spring brake chambers mounted to provide adequate  
clearance for tire chains and backing into bituminous paving machines  
 YES  NO
- X8.16.10 Brake dust covers installed on all wheels  YES  NO
- X8.16.11 Unit equipped with hand control valve, tractor protection valve, with provisions for  
installation of glad hands at rear of truck to enable unit to pull air brake operated  
equipment trailer  YES  NO
- X8.17 Tires and Wheels:  
**X8.17.1 Is truck equipped with hub piloted steel disc wheels for tubeless tires**  
 YES  NO

X8.17.2 Wheel end equipped with outboard cast brake drums, and 15 degree tubeless steel wheels, hub piloted, 10 hole - 285.75mm bolt circle with 22mm two piece flange nuts  
 YES  NO

X8.17.3 Front:

X8.17.3.1 Wheels:

Size: 22.5" X 9.00"

10 hole - 285.75mm bolt circle with 220mm bore  YES  NO

Tubeless steel disc wheel rated at 10,000 lbs. at a **maximum inflation pressure of 130 PSIG**  
 YES  NO

Manufacturer: Hayes Lemmerz Part No. 10041E

X8.17.3.2 Tires:

Size: 315/80R22.5 Ply: L

SEE ADDENDUM #2

X8.17.4 Rear:

X8.17.4.1 Wheels:

Size: 22.5" X 8.25"

10 hole - 285.75mm bolt circle with 220mm bore  YES  NO

Tubeless steel disc wheel rated at 7500 lbs. at a **maximum inflation pressure of 120 PSIG**  
 YES  NO

Manufacturer: Hayes Lemmerz Part No. 90260G

X8.17.4.2 Tires:

Size: 11R22.5H

X8.17.4.3 Does the dual rear wheel/tire assembly have clearance between the tires, which permits the use of dual tire chains  YES  NO

X8.17.5 Wheel guard Separators  YES  NO  
 SEE EXCEPTION REPORT

X8.17.6 Tires: radials  YES  NO

Manufacturer: Goodyear Front Tire: G291

Manufacturer: Goodyear Rear Tire: G244 MSD

SEE ADDENDUM #2

X8.18 Steering:

X8.18.1 Power steering: Dual integral  YES  NO or  
 single integral type  YES  NO hydraulic power steering with right wheel  
 power assist cylinder  YES  NO

X8.18.2 Steering system:

Manufacturer: TRW Model: TAS-65

X8.18.3 Hydraulic supply pump:  
 Vane type  YES \_\_\_\_\_ NO or roller type \_\_\_\_\_ YES \_\_\_\_\_ NO with sufficient  
 oil flow to permit one (1) steering wheel revolution per second with front axle loaded  
 to rated capacity with plow on, in a "park" condition  YES \_\_\_\_\_ NO

Manufacturer: TRW Model: EV

X8.18.4 Is the pump the integral filter type unit \_\_\_\_\_ YES  NO

X8.18.5 Power steering reservoir: Remote mounted  YES \_\_\_\_\_ NO

Capacity: 4 qt. incorporating a filter which is easy to remove and replace  
 SEE ADDENDUM #2 \_\_\_\_\_ YES \_\_\_\_\_ NO

X8.18.6 The remote filter factory mounted, certified, and engineering approved in conjunction  
 with the appropriate pump \_\_\_\_\_ YES \_\_\_\_\_ NO

**X8.19 All features advertised by manufacturer as "standard features" provided if not  
 specifically addressed within**  YES \_\_\_\_\_ NO

X8.20 Paint:

X8.20.1 Cab exterior and interior color: White

X8.20.2 Grille: Chrome Plated

X8.20.3 Wheel paint: ↴

SEE ADDENDUM #2

X8.20.4 Describe proposed method of painting and prepping:  
Per bid request.

X8.21 Detail/Decorative Stripes with Logo:

X8.21.1 Width: 4 inches

X8.21.2 Will you comply with WVDOT logo area  YES \_\_\_\_\_ NO

X8.21.3 Does conspicuity striping material provided meet requirements of Section 8.21.3  
 through 8.21.8 of specification section?  YES \_\_\_\_\_ NO

**X8.22 Does unit offered meet or exceed "Occupational Safety and Health Act of 1970"**  
 YES \_\_\_\_\_ NO

**X8.23 Does unit conform to the advertising guidelines**  YES \_\_\_\_\_ NO

X8.24 Preventive Maintenance

X8.24.1 Will a preventative maintenance and operator's training seminar be provided  YES  NO

X8.24.2 Will booklets and pamphlets be furnished to be used by the operators  YES  NO

X8.24.3 Will you furnish all training aids; i.e. videos, projectors, etc. required in conducting the training  YES  NO

X9.0 SPECIFICATIONS OF THE DUMP BODY - SEE ATTACHED SHEETS

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.

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

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

Telephone Number: \_\_\_\_\_

Years company has been an authorized dealer for proposed unit: \_\_\_\_\_ years

Manufacturer, model, series, and date of manufacture of proposed Dump body:

\_\_\_\_\_  
\_\_\_\_\_

Is descriptive literature full describing proposed dump body attached to your bid proposal?  YES  NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? \_\_\_\_\_ prior to deliver of unit or \_\_\_\_\_

X9.0.1 Water Level of dump body: \_\_\_\_\_ cu yd

X9.0.2 Will side board pockets and tailgate height provide additional capacities of 2-5 cu. yd.  YES  NO

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**X8.24 Preventive Maintenance**

**X8.24.1** Will a preventative maintenance and operator's training seminar be provided        YES        NO

**X8.24.2** Will booklets and pamphlets be furnished to be used by the operators        YES        NO

**X8.24.3** Will you furnish all training aids; i.e. videos, projectors, etc. required in conducting the training        YES        NO

**X9.0 SPECIFICATIONS OF THE DUMP BODY**

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.

Bidder: ACE TRUCK EQUIPMENT CO

Address: 1130 NEWARK RD. ZANESVILLE, OH 43701

Telephone Number: 740.453.0551

Years company has been an authorized dealer for proposed unit: 12 years

Manufacturer, model, series, and date of manufacture of proposed Dump body:

HENDERSON MKE-13.5-WV08

Is descriptive literature full describing proposed dump body attached to your bid proposal?   X   YES        NO

If NO, refer to specification statement Section 6.6

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhammon?                    prior to deliver of unit or WITH THE UNIT

**X9.0.1** Water Level of dump body: 13 cu yd

**X9.0.2** Will side board pockets and tailgate height provide additional capacities of 2-5 cu. yd.   X   YES        NO

- X9.0.3 Front body bulkhead: 3/16 inch AR400 steel 190,000 PSI yield strength
- X9.0.4 Are rear corner posts full depth one-piece construction from the top of tailgate to bottom of rear bolster X YES        NO
- X9.0.5 Is rear bolster one piece full depth and full width X YES        NO
- X9.0.6 Are spreader strap retainers adequately welded on both sides X YES        NO
- X9.0.7 Does cab shield have built in tarp deflector, full width of body having sufficient clearance to ensure shield will not hit exhaust when dumping on uneven terrain X YES        NO
- X9.0.8 Are there two (2) front frame mounted tow hooks or eyes X YES        NO
- X9.1 Dimensions:
- X9.1.1 Inside length of body: 162 inches
- X9.1.2 Inside width: 86 inches
- X9.1.3 Outside width: 96 inches at rub rail
- X9.1.4 Basic side height: 44 inches (measure from floor to top rail)
- X9.1.5 Tailgate height: 52 inches (measure from floor to top rail)
- X9.1.6 Body overhang: 12 inches (measure from center of hinge pin)
- X9.1.7 Cab protector: 24 inches with adequate clearance for cab mounted air horns
- X9.1.8 Is cab protector sloped rearward for drainage purposes X YES        NO
- X9.2 Construction of the dump bed sides, front, head, and tailgate constructed with a the following minimums X YES        NO
- X9.2.1 Floor: 1/4 inch AR400 190,000 PSI yield strength steel with 5 inch radius built into floor, all one piece
- X9.2.2 Sides: 10 Gauge AR400 190,000 PSI yield strength steel thickness
- X9.2.3 Tailgate Plate: 3/16 inch AR400 190,000 PSI yield strength steel
- X9.2.4 Top Rail: 3/16 inch thickness

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**X9.2.5 Bottom Rail:** 3/16 inch thickness

**X9.2.6 Cab Protector:** 10 Gauge

**X9.2.7 Longitudinal:** 8 inch/13 lb.ft. I beam

**X9.3** Are all the weldings inside the dump body continuous  YES  NO

Are all rails and posts continuous welded and completely closed  YES  NO

**X9.3.1** The corner posts are 7 gauge Grade 50, 4-3/4 inch x 12 inch full depth tied to 8 inch formed channel rear apron

Is this joint further reinforced with a 1/4 inch plate that helps prevent flexing and strengthens latch assembly  YES  NO

**X9.3.2** Cab protector sides, formed with gussets extend forward 24 inches.

Clearance above highest point of cab 3 inches

**X9.3.3** Is there one (1) horizontal side brace, weld on, dirt shedding sloped side brace connected to front and rear corner posts  YES  NO

**X9.3.4** Are all seams welded solid except crossmembers  YES  NO

**X9.4** Hydraulic hoist :  
Telescopic hoist  YES  NO Internal dog house  YES  NO  
of 13 inches

**X9.4.1** Trunnion mount to bottom of dump body, not top of doghouse  YES  NO

**X9.4.2** NTEA rating: Class 90 double acting with 26 ton capacity  YES  NO

**X9.4.2** Is the hoist of the cross head sleeve twin side lift arms and links design for stability  YES  NO

**X9.4.3** Is the single hoist cylinder trunnion mount  YES  NO



- X9.4.4 Does the hoist cylinder have three (3) stages  YES  NO with 130 inches of stroke with five (5) inch diameter stage at bottom  YES  NO  
 Manufacturer and part number: MAILHOT CS-130-5.5-3
- X9.4.5 Does the cylinder have wear and corrosion resistant nitrided cylinder tubes  YES  NO
- X9.4.6 Cylinder warranty 2 year
- X9.4.7 Does a five (5) degree oscillating cylinder collar protect the cylinder against inside stress with replaceable greaseless composite bushings at collar pivots  YES  NO
- X9.4.8 Does the body have 6 inch x 8 inch x 1/2 inch structural angle rear hinge assembly installed in the truck chassis frame  YES  NO
- X9.4.9 Are there two (2) inch 303 stainless steel hinge pins connecting to 2 1/2 inch hinge blocks using replaceable greaseless composite bushings for a minimal pin-to-bushing clearance  YES  NO
- X9.5 Features shall be included:
  - X9.5.1 Warning light (bed raised) dash or console mounted  YES  NO
  - X9.5.2 Hydraulic oil level reading  YES  NO
  - X9.5.3 Safety decals as required  YES  NO
  - X9.5.4 Mud guards permanently attached in front of rear wheels  YES  NO  
10 Gauge x 24 inches x 30 inches  
 Will you align exhaust stack for bed clearance  YES  NO
  - X9.5.5 Shovel bracket (SEE ADDENDUM)  YES  NO
  - X9.5.6 Are gussets for 2 inch x 6 inch lumber (rough) located at front and rear posts and mid-rail 2 inch x 6 inch (rough) oak sideboards supplied and bolted through gussets  YES  NO  
 Painted to match dump body  YES  NO

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- X9.5.7 Air operated tailgate latches are pancake type tailgate release valve**  YES  NO  
**Manufacturer and model:** ANCHOR LOCK MODEL #24LS EQUIVALENT  
**With spring-over-center latch and pivot points include stainless steel bushings to reduce seizing**  YES  NO
- X9.5.8 Outside steps on both sides of front of bed**  YES  NO
- X9.5.9 Self cleaning safety platform non-skid material located on both sides of dump body (DELETE AS PER ADDENDUM)**  YES  NO
- X9.5.10 OSHA approved backup alarm, electronic ambient, adjusts to background noise, 112 dba shock mounted at rear**  YES  NO
- X9.5.10.1 OSHA approved body support, both sides**  YES  NO
- X9.5.11 Slope outside of bottom red rail**  YES  NO
- X9.5.12 Is unit equipped with 49,000 lb. capacity pintle hook centered between rear frame rails**  YES  NO  
**Manufacturer:** WALLACE **Part No.:** B30  
**Is height from ground level to center line of pintle "eye" 32 inches**  YES  NO
- X9.5.13 Is air deflector hood mounted, blue or smoke**  YES  NO  
**Is deflector manufacturers standard width for truck made**  YES  NO  
**Is access to front end hood tilt handle avoided**  YES  NO
- X9.6 Lighting: Weather/shock resistant marker lights, LED type with average amp draw between .045-.72**  YES  NO **Manufacturer:** TRUCKLITE
- Do all connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration**  YES  NO
- X9.6.1 Are marker lights 2 1/2 inch diameter flush mounted sealed beam lights with integral reflector mounted in rubber base**  YES  NO
- X9.6.2 Are all ground wires attached with plated steel fasteners**  YES  NO  
 NOTE: GROUNDED THRU CHASSIS WIRING SYSTEM

- X9.6.3 Are rear lights shock mounted, recessed oval stop, tail, turn, and recessed oval backup lights mounted in back post  YES  NO  
 Are strobe lights marked and switched from dash board location  YES  NO
- X9.6.4 Are center rear I.D. Lights three (3) located in truck chassis  YES  NO
- X9.6.5 Are there two (2) amber oval L.E.D. strobe lights mounted at front corners of the cab protector  YES  NO  
 Are there two (2) amber oval L.E.D. strobe lights mounted at each outside corner of the cab protector  YES  NO  
 Are strobe lights marked and switched at dash board location  YES  NO  
 Manufacturer: TRUCKLITE Part No. 601224  
 Are oval cutouts precut by dump body manufacturer  YES  NO
- X9.6.6 Auxiliary headlights for snow plowing application shock mounted on fender of unit  YES  NO  
 Manufacturer: TRUCKLITE Part No. 80800
- X9.6.7 Are there two (2) oval amber L.E.D. strobe lights mounted at top of rear corner posts right and left sides  YES  NO  
 Are they switched in combination with cab protector strobe  YES  NO  
 Manufacturer: TRUCKLITE Model: 601224  
 Are oval cutouts precut by dump body manufacturer  YES  NO
- X9.6.8 Angled hydraulic fittings are mounted above the lights, and the vertical apron is cut out above the frame to facilitate their placement  YES  NO
- X9.6.9 Two (2) front frame mounted tow hooks  YES  NO
- X9.6.10 Lighted license plate bracket  YES  NO
- X9.7 Does a full length dirt shedding rub rail extend along each side of the body, sufficient to cover the rear wheels  YES  NO

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- X9.8 The following should be at the front of both sides of the body on posts:**
- X9.8.1** Iread plate step  YES  NO
- X9.8.2** Strap type ladder, dirt shedding, non-skid material, both sides as low as practical, braced and permanently mounted both sides  YES  NO
- X9.8.3** Two grab handles located on the front post  YES  NO
- X9.8.4** 3/4 inch re-rod tarp rail mounted to bottom rub rail slope with adequate clearance between slope and re-rod from the front post to rear post (tarp rail) welded at each post  YES  NO
- X9.8.5** Is there adequate gusset spacing between rub rail slope and re-rod  YES  NO
- X9.9 Tailgate:**
- X9.9.1** Tailgate hinged at top with flush mount, 1/2 inch flame cut pivots, one (1) inch pork chop type off-set hardware to achieve maximum opening of tailgate, but have provisions for pivoting at bottom  YES  NO
- X9.9.2** Top hinge channel with removable, chain tethered keeper pins  YES  NO
- X9.9.3** Latching action at bottom of gate is 3/4 inch latch hooks with 3/8 inch latch plates operable by the truck driver without leaving the truck cab  YES  NO
- X9.9.4** Gate self-aligning  YES  NO
- X9.9.5** Tailgate upper and lower latch pins 1 1/4 inch diameter hot rolled  YES  NO
- X9.10** The design and strength characteristics of the entire dump such that the unit structural members and the hoisting system suffers no deformation, damage, or structural failure resulting from raising a distributed full payload  YES  NO
- X9.11** The location of the dump box pivot point in relation to the rear end of the truck frame and in relation to the rear lip of the box floor such that the horizontal distance from floor lip to the rear end of the frame is 18 inches  YES  NO
- X9.12 Bumper**
- X9.12.1** The bumper is formed out of 1/4 inch roll steel  YES  NO
- Weight: 10.20 lbs. per square foot

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- X9.12.2 Bumper face to cover all of truck frame (12 inches) with two (2) flanges  
2.25 inches top and bottom X YES        NO
- X9.12.3 Bumper overall width: 94 inches
- X9.12.4 Bumper is straight across front from centerline of truck chassis 21 inches each  
side of centerline, making bumper straight 42 inches long in center with ends  
swept back 30 degrees and 27 inches each side X YES        NO
- X9.12.5 Upper and lower flanges cut and welded solid at point where bumper is bent and  
ground off smooth X YES        NO
- X9.12.6 Bumper mounted by two (2) mounting angles bolted to front of truck frame with two  
(2) 5/8 inch bolts each side X YES        NO
- X9.12.7 Mount angle 1/4 inches x 3 inches x 8 inches long with four (4) 5/8 inch  
holes
- X9.12.8 Front bumper paint: BLUE
- X9.13 Under Body Tool Box:
- X9.13.1 One (1) tool box mounted under body on right side frame rail X YES        NO
- X9.13.2 Tool box 18 inches high 24 inches wide 18 inches deep cradles by a heavy  
steel angle frame attached to the truck frame X YES        NO
- X9.13.3 Construction of 14 gauge A-60 galvaneal steel with all seams welded  
X YES        NO
- X9.13.4 Tool box has a horizontal hinged fold down door X YES        NO
- X9.13.5 Tool box door has cable or chain to hold the door in a horizontal position  
X YES        NO
- X9.13.6 Tool box has keyed latch of corrosion resistant hardware, automotive style weather  
stripping, and a drip rail over the door opening X YES        NO
- X9.14 Load covering system electrically controlled: X YES        NO
- X9.14.1 Does electric motor assembly include 12 volt direct drive motor with forward and  
reverse action, cab mounted control switch, resettable circuit breaker  
X YES        NO
- X9.14.2 Pivot arm assembly constructed in a two (2) piece bent arm configuration of 1-1/4  
inch 14 gauge steel tubing

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- X9.14.3 Bent arm extensions constructed of 1 inch 14 gauge steel tubing
- X9.14.4 Rear cross constructed of 1-1/4 inch 14 gauge steel tubing
- X9.14.5 Pivot arm rests included     YES    NO
- X9.14.6 Underbody spring extension spring 12 inches in length attached to base of pivot arm and of body with articulating spring mounting bracket     YES    NO
- X9.14.7 All steel components finished with manufacturer's recommended rust preventative system to include a minimum of adequate primer and paint     YES    NO
- X9.14.8 Load covering system provided with 18 oz black vinyl tarp to fit dump body     YES    NO
- X9.14.9 Load covering system supplied with all necessary hardware and delivered to the WVDOH as a complete and operational unit     YES    NO

X9.15 Paint:

X9.15.1 - 9.15.2.1 Describe proposed method of painting: \_\_\_\_\_

UNIT WILL BE SANDBLASTED AND PRIMED, THEN PAINTED WITH A BLUE PAINT.

X9.16 Detail/Decorative Stripes with Logo.

Will striping and detailing you provide comply with requirements of Section 9.16.1 through 9.16.7     YES    NO

X9.17 Other standard features:

List other standard features offered and not addressed above:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

X9.18 Does the proposed unit meet or exceed the "OSHA OF 1970" and/or subsequent changes     YES    NO

X10.0 SECTION THREE - CENTRAL HYDRAULIC SYSTEM

Reference Requisition No. on request for proposal:  
708EC018

Bidder's Name: ACE TRUCK EQUIPMENT CO.

Address: 1130 NEWARK RD. ZANESVILLE, OH 43701

Telephone Number: 740.453.0551

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

Manufacturer, model, series, and date of manufacture of proposed Hydraulic System:

CERTIFIED POWER/COMPONENT TECHNOLOGY SG03080009

WEST VIRGINIA SYSTEM MANUFACTURED AS REQUIRED FOR CONTRACT.

Is descriptive literature, fully describing proposed system attached to your bid proposal?  
X YES NO

If NO, refer to specification statement Section 7.5

When will required number of operating manuals, service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon? \_\_\_\_\_ prior to delivery of unit or WITH UNIT

Will hydraulic system be designed to operate a front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive spreader requiring the simultaneous operation of 2 hydraulic motors in 2 different modes with conveyor reverse, a double acting snowplow lifting cylinder, a snowplow power angle system, plow balance system, and an auxiliary equipment drive circuit  
X YES NO

Are provisions made for future add-on hydraulic driven pre-wet system  
X YES NO

Pre-wet system:

Will supplied spreader control contain the ability to control a closed loop pre-wet system.  
X YES NO

Will system operate using a flow meter feedback circuit X YES NO

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**Will controller software allow for adjustability of pre-wet output by the operator, represented in gallons per ton**  YES  NO

**Will information related to pre-wet application rate and total flow in gallons be displayed on the screen while the pre-wet system is active.**  YES  NO

**Central hydraulic system warranty:** TWO (2) YEAR BUMPER TO BUMPER PARTS AND LABOR

**X10.1 Pump System:**

**X10.1.1 Is pump variable volume pressure compensated load sensing axial piston type**  YES  NO

**X10.1.2 Are the front mounting flange and main housing/case of cast iron construction**  YES  NO

**Are the inlet and outlet port section of high strength ductile iron with SAE split flange or orb type porting**  YES  NO

**X10.1.3 Is suction port and associated plumbing sized to allow for minimum inlet restriction between the pump and the suction port on the reservoir**  YES  NO

**Does installation comply with pump manufacturers allowable inlet condition specifications**  YES  NO

**Is suction plumbing equal to or greater than pump inlet or suction size**  YES  NO

**X10.1.4 Is pressure port of the SAE split flange or ORB type side mounted for direct bolt mounting of solenoid shut down valve assembly**  YES  NO

**X10.1.5 Are case drain and load sense signal ports of the SAE o-ring type**  YES  NO

**Is case drain line taken directly to tank without passing through the return line filter**  YES  NO

**X10.1.6 Does the input shaft have a minimum continuous torque rating equal to 200% of the imposed load when pump is operated at maximum engine rpm, maximum displacement and system pressure**  YES  NO

**Is it minimum SAE "C" keyed**  YES  NO



X10.1.7 Is front shaft bearing of the heavy duty ball  or roller type  designed for high axial and radial loading  YES  NO

Is rear shaft bearing of high speed and load sleeve type design  YES  NO

Are bearings fully lubricated by flooded case oil  YES  NO

X10.1.8 Is ramp/swashplate supported by pressure lubricated bearings of rocker cam  or Saddle type  for high piston load support  YES  NO

Is ramp angle positioning by means of dual servo control cylinders for rapid pump response and precise pump output control  YES  NO

X10.1.9 Is adjustable load sense and high pressure compensator control valve assembly of the full cartridge  or of bolt-on housing design  for ease of replacement and repair  YES  NO

X10.1.9.1 System is designed and components to provide flow, pressure, and performance requirements as stated with operating load sense differential pressure of 300 PSI and a maximum standby pressure of 350 PSI for maximum efficiency  YES  NO

Is pilot control shifted valving utilized in the system  YES  NO  
 Are they designed to be fully functional within this pressure Range  YES  NO

X10.1.9.2 Is high pressure compensator valve preset to limit the maximum pump output pressure to the maximum required operating pressure plus sense differential and margin pressure prevent premature de-stroking of ramp resulting in reduced or insufficient pump output  YES  NO

X10.1.10 Pump Output: SEE ADDENDUM  
 Is it capable of providing hoist cylinder extension required  YES  NO

Manufacturer and part number: MALHOIT CS-130-5.5-3

9.9 gallons to fully extend

5 GPM flow rate	<u>120</u>	seconds to raise
10 GPM flow rate	<u>60</u>	seconds to raise
15 GPM flow rate	<u>40</u>	seconds to raise
20 GPM flow rate	<u>30</u>	seconds to raise
25 GPM flow rate	<u>24</u>	seconds to raise
30 GPM flow rate	<u>20</u>	seconds to raise
40 GPM flow rate	<u>15</u>	seconds to raise

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X10.1.11 Is the pump you are supplying of overall quality of construction, design, and Performance  X  YES   NO

X10.1.12 Pump Manufacturer and model:  REXROTH A10V071 SERIES 31

X10.1.13 Is pump of a manufacturer's standard product release and design  X  YES   NO

X10.1.14 Is pump driveline assembly of the keyed shaft design utilizing a 4 bolt driveshaft flange and matching drive yoke on the pump  X  YES   NO

X10.1.14.1 Does driveline have a minimum continuous torque rating equal to 200% of the imposed load when pump is operating at maximum system requirements  X  YES   NO

Manufacturer and model:  SPICER 1310 SERIES

X10.1.14.2 Are dual journals and yokes incorporated to connect the pump shaft and engine drive flange with an angular misalignment no greater than six (6) degrees and not less than two (2) degrees  X  YES   NO

X10.2 Pump Shutdown System:

X10.2.1 Is the normally closed, energized to open, solenoid operated control valve of the cartridge and manifold design to be directly bolted to pump pressure port  X  YES   NO  
 Is solenoid electrical connection of the Packard "Weatherpack" type with "SO" cable Wiring  X  YES   NO

X10.2.2 Is it valve controlled by a console mounted "Master On" switch with pilot lamp for normal system operation and by a float switch located in hydraulic reservoir to automatically shut off pump pressure port flow to all down stream functions in the event of low hydraulic oil level  X  YES   NO

X10.2.3 Pressure drop across valve  40  PSI at  40  GPM flow when in the switched open position  
 Nominal valve rating of  50  GPM @  3500  PSI

X10.2.4 Is SAE #6 gauge port equipped with Parker Hannifin Model PD361 diagnostic coupling nipple and protective cap provided for pump output pressure testing to be installed in valve manifold and within an easily accessible mounting position  X  YES   NO

X10.2.5 Is valve designed to protect the pump for damage when system is shut down at high pressure and flow operation  X  YES   NO

**X10.2.6 Valve Manufacturer and model:** COMPONENT TECHNOLOGY

**X10.2.7** Is central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown provided  YES  NO

**X10.2.8** Is warning lamp a press-to-test and incorporate a switching system into the automatic shutdown assembly to simulate low oil level, shut off pump output flow and test float switch wiring and connections  YES  NO

**X10.2.9** Is a console mounted electrical override function switch provided to allow momentary operation of hydraulic functions in emergency situations  YES  NO

**X10.3 Directional Control Valve Assembly:**

**X10.3.1** Is valve stacked section type and of closed center circuit design  YES  NO

**X10.3.2** Is each work section pressure compensated with fully integrated load sense network (SEE ADDENDUM #2)  YES  NO

Is flow output relative to spool travel with preset maximum flow rate obtained at maximum spool stroke to provide feathering control of operated function  YES  NO

**X10.3.3** Are dump body, snowplow lift and snowplow power angle sections of the manual cable shift type  YES  NO

Is auxiliary circuit section of the electric solenoid shift type  YES  NO

Are both ends of each section valve spool sealed with weather resistant caps or cable entry bonnets  YES  NO

**X10.3.4** Is valve assembly flow capacity rating and pressure drop characteristics sufficient to provide for the required pump output and circuit flow rates at the specified maximum load sense differential pressure settings  YES  NO

**X10.3.5** Are all valve ports of the SAE o-ring seal type and of sufficient size to handle required section flow rates at stated load sense differential pressure  YES  NO

**X10.3.6** Is a priority section installed to allow plow to raise in a system over demand Situation SEE ADDENDUM #2  YES  NO

X10.3.7 Is a main pressure inlet relief valve provided to reduce system pressure shock loads  X  YES   NO

Is it preset at pressure so as not to interfere with pump pressure compensator and to prevent premature relief opening at system high demand operation  X  YES   NO

X10.3.8 Is pilot pressure reducing valve required for solenoid section control  X  YES   NO

Is it designed to meet operating requirements as set forth in Section 10.1.9.1  X  YES   NO

Is pilot supply and tank venting internal within the valve assembly sections  X  YES   NO

X10.3.9 Is load sense network high pressure relief provided and preset to limit system maximum operating pressure  X  YES   NO

Will set point provide proper pressure margin to pump pressure compensator and high pressure relief valve as to prevent premature loss of required flow rates and pressure capability  X  YES   NO

X10.3.10 Is SAE #6 gauge port equipped with Parker Hannifin PD361 diagnostic coupling nipple with protective cap for load sense testing installed in an easily accessible location  X  YES   NO

X10.3.11 Is dump body control section 4-way three position spring centered cylinder spool for operation of a double acting hoist cylinder  X  YES   NO

X10.3.11.1 Is full flow workport relief valve installed in power up port  X  YES   NO

Will set point prevent operating pressure from exceeding hoist cylinder normal operating pressure rating  X  YES   NO

X10.3.11.2 Is full flow workport relief valve installed in the power down port, set at 500 PSI to prevent full system pressure on down stroke  X  YES   NO

X10.3.12 Is snowplow lift control section 4-way three position spring centered cylinder spool for operation of a double acting lift cylinder  X  YES   NO

X10.3.12.1 Is full flow workport relief valve preset at maximum required unlock pressure installed in power down workport   YES   NO

SEE ADDENDUM

SEE ADDENDUM

Is workport relief valve installed in power up workport if maximum system pressure output setting exceeds normal operating pressure limit of plow lift cylinder        YES        NO

SEE ADDENDUM

Is three (3) way valve provided for plow hoist circuit        YES        NO  
Is a full flow work port relief provided for plow lower circuit        YES        NO

X10.3.12.2 Is an adjustable flow control installed to limit downward speed of snowplow   X   YES        NO

Is flow limiting control system preset for proper plow lift speed supplied to reduce over demand operation and to increase system efficiency   X   YES        NO

X10.3.13 Is snowplow power angle control section 4-way three (3) position spring centered motor spool for operation of worm gear driven type reversing system   X   YES        NO

X10.3.13.1 Is flow limiting control system preset for proper plow reversing speed supplied to reduce over demand operation and to increase system efficiency   X   YES        NO

X10.3.14 Plow Balance Valve:

X10.3.14.1 Is hydraulic system supplied with a plow balance valve   X   YES        NO

X10.3.14.2 Is valve designed to offset a specific (adjustable) plow weight when activated   X   YES        NO

X10.3.14.3 Does plow balance system alter the operation of any other hydraulic function or have an adverse effect on the performance of other hydraulically operated equipment including:

Wing Plow        YES   X   NO  
Body Hoist        YES   X   NO  
Plow Hoist or Angle        YES   X   NO  
Spreader functions        YES   X   NO

Will all normal operations of the plow lift/lower functions be maintained without additional tasks   X   YES        NO

X10.3.14.4 Is plow lift immediate to guarantee safe operation of vehicle   X   YES        NO

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**X10.3.14.5** Are solenoid valve coils used  YES  NO  
 Do they have manual override capabilities if needed for continued use when coils fail  YES  NO

**X10.3.14.6** Does manifold valve include a pressure test point for use when checking balance pressures  YES  NO

**X10.3.14.7** Is pressure test point capable of tapping into system at pressures of 5000 PSI  YES  NO

**X10.3.15** Is auxiliary equipment drive circuit control section 3-way three position spring centered solenoid operated motor spool  YES  NO

Is this circuit separate and distinct from spreader control system  YES  NO

**X10.3.15.1** Is flow limiting control system preset to provide a maximum of 22 GPM at a system load pressure of 2200 PSI  YES  NO

Is pump capable of supplying this flow rate with engine speed of 1400 RPM  YES  NO

**X10.3.15.2** Is an inline mounted control valve supplied for this operation in place of directional control valve section  YES  NO

Is it supplied  YES  NO

Are proper interconnections and venting of load sense network system Provided N/A  YES  NO

**X10.3.15.3** Is pressure line 3/4" SAE100R2 hose and manifold mounted at rear of chassis and equipped with Parker Hannifin SH6-62 quick disconnect coupler and protective metal plug  YES  NO

Is mating nipple SH6-63 with protective cap supplied  YES  NO

**X10.3.15.4** Directional and auxiliary circuit valves Manufacturer and model:

REXROTH MP18 SERIES

**X10.3.16** Is directional control valve assembly located in a combination tank/valve enclosure assembly to protect the hydraulic tank/valve from elements  YES  NO

Reservoir (tank): 40 gallon capacity

**X10.3.17 Pre-Wet Circuit:**

**X10.3.17.1 Is a separate circuit provided to control an add-on pre-wet system**  
 YES  NO

**X10.3.17.2 Is a hydraulic valve of the section type  or of the cartridge style**   
 Contained in a manifold

**X10.3.17.3 Is a manifold type valve supplied**  YES  NO  
**Is it attached to the main valve assembly**  YES  NO

**X10.3.17.4 Is all wiring to the pre-wet hydraulic circuit provided as part of the system**  
 YES  NO

**X10.3.17.5 Is wiring to the control console related to the rest of the pre-wet system provided as part of the pre-wet package at the time of pre-wet system installation**  
 YES  NO

**X10.4 Spreader Control Valve Assembly:**

**X10.4.1 Are spinner and conveyor solenoid flow controls of the PWM proportional solenoid type and equipped with manual overrides**  
 YES  NO

**Are overrides manually adjustable over operating flow range in the event of electrical system failure**  
 YES  NO

**X10.4.2 Are flow control circuits pressure compensated and provide a spinner and pre-wet flow rate of 0-7 GPM and a conveyor flow rate of 0-15 GPM**  
 YES  NO

**Pressure relief valve system limit circuits to 2200 PSI**

**X10.4.3 Are load sense circuits connected to directional control valve network for proper pump control**  
 YES  NO

**Does design prevent improper high pressure load sense signal and pressure line loading when spreader valve is not in use and when spreader quick disconnects are uncoupled**  
 YES  NO

**X10.4.4 Is PWM solenoid control supplied by microprocessor spreader control system**  
 YES  NO

**Are solenoids capable of 100% PWM signal without failure**  YES  NO

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X10.4.5 Is solenoid operated directional control valve and in-cab mounted electrical switch to operate spreader conveyor reverse required for front or rear material discharge selection provided  YES  NO

X10.4.6 Are electrical switching and indicator light for spreader clogged indication provided  YES  NO

X10.4.7 Proposed valve Manufacturer and model: REXROTH MP18 SERIES

X10.5 Spreader Control System:

X10.5.1 Is dual flow, ground speed oriented spreader control system of the closed loop microprocessor based type with nonvolatile control memory  YES  NO

X10.5.2 Is programming automatic calibration and flexibility  YES  NO

SEE ADDENDUM #2 X10.5.3 Is system capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes and fully functional in both front and rear material discharge selection  YES  NO

X10.5.4 Is automatic switchover with display indication from closed loop to open loop operation in the event of loss of feed rate sensor signal provided  YES  NO

X10.5.5 Are control console digital readouts capable of displaying actual application rate, vehicle ground speed, distance of spread route driven and total quantity of material spread  YES  NO

X10.5.6 Are programming and output cable connection for material and trip information printer and program uploading provided  YES  NO

X10.5.7 Is control unit capable of accumulating such display information up to 999,999 miles and 999,999 tons of discharged material  YES  NO

X10.5.8 Is console programming capable of selection, calibration and display of four (4) separate spread materials with independent application rates of each material capable of being set to fixed rates or to rate increments of a preset maximum application rate  YES  NO

X10.5.9 Is a variable digital access code lockout for application rate selection and for system operating parameters provided  YES  NO

X10.5.10 Are backlighted switches and LCD screed utilized for on-board programming and for display readout and application rate selection  YES  NO



**X10.5.11** Is material spread width selectable by no less than a ten (10) position switch with minimum and maximum spinner speed totally programmable through entire flow range.  YES  NO

Is spinner speed capable of linking to ground speed for on-off control  YES  NO

**X10.5.12** Does display enunciate error message and sound audio alarm when microprocessor system detects any loss of control or accuracy  YES  NO

**X10.5.13** Will system be fully functional at time of delivery  YES  NO

**X10.5.14** Will truck speed sensor be compatible with type of speedometer drive system supplied on chassis  YES  NO

**X10.5.15** Will a built-in ground speed simulator be provided either internal to the control or located in the control console  YES  NO

**X10.5.16** Will all components required for proper installation and operation of control system onto truck and spreader units be supplied  YES  NO

**X10.5.17** Control System Manufacturer and model: COMPONENT TECHNOLOGY SG51 WITH GL400 CONTROL

**X10.6** Central Control Console:

**X10.6.1** Mounted between seats within easy access of driver  YES  NO

**X10.6.1.1** Warning light (bed raised) control console mounted  YES  NO

**X10.6.2** Is all wiring, valve control cables, and electrical harness entry into cab and console sealed with grommets  YES  NO

**X10.6.3** Are remote control valve levers console mounted  YES  NO

Are all levers clearly marked as to their function and operation  YES  NO

**X10.6.3.1** Are remote control levers to operate push-pull type cables with .250" diameter stainless steel rod ends  YES  NO

**X10.6.3.2** Is inner cable member 18-8 stainless steel armor wrapped construction with a low resistance nylon liner and polyethylene covered tempered steel wire conduit  YES  NO

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- X10.6.3.3** Is cable to valve connection of the weather resistant bonneted type  
 YES  NO
- X10.6.3.4** Is the hoist control lever OSHA 1926.601(b)(11) compliant  
 YES  NO
- X10.6.4** Is central control console \_\_\_ or dash mounted rocker switches with indicator lamps  provided for strobe lights, spreader light, and plow lights isolated from all hydraulic system control circuits  
 YES  NO
- X10.6.4.1** Are all interconnections and cables installed and ready for operation  
 YES  NO
- X10.6.4.2** Is hydraulic system automatic shutdown system and control switching relay Controlled  
 YES  NO
- X10.6.4.3** Are relay(s) mounted within the cab  
 YES  NO
- X10.6.4.4** Is an access plate to internal wiring provided  
 YES  NO
- X10.7** Hydraulic Reservoir and Valve Enclosure Assembly:
- X10.7.1** Is tank/valve enclosure flex mounted to the chassis frame rail  YES  NO
- X10.7.2** Tank construction: 7 GAUGE STAINLESS STEEL
- X10.7.3** Is tank equipped with a combination oil level sight glass and thermometer  
 YES  NO
- X10.7.4** Is tank equipped with a ten (10) micron filler/breather cap with removable five hundred (500) micron strainer  
 YES  NO
- X10.7.5** Is an internal steel baffle provided within tank  
 YES  NO
- X10.7.6** Size of stenciling on tank "Hydraulic Oil": 1-½ inches high
- X10.7.7** Is tank level switch connection "SO" type wiring and mounted within the tank/valve enclosure to protect it from elements  
 YES  NO
- X10.7.8** Pump supply suction port 2 inch NPT and system return port 1-½ inch NPT

**X10.8 Filtration:**

X10.8.1 Is filtration manufacturers standard to adequately protect the hydraulic system from Damage  YES  NO

X10.8.2 Is return line filter isolated from reservoir by a full flow non-restrictive type quarter turn brass ball valve if filter is not installed in reservoir  YES  NO N/A

X10.8.3 Is each filter equipped with a differential pressure switch to indicate filter clogged condition by means of a console mounted indicator lamp  YES  NO

X10.8.4 Is one (1) extra replacement filter for each assembly provided for each truck  YES  NO

X10.8.5 Are filter assemblies positioned as close to reservoir as possible and in an easily accessible service location  YES  NO

**X10.9 Hoses and Fittings:**

X10.9.1 Is each hose assembly, except for suction hose, fitted with JIC swivel connectors on ends where connection to system component is made  YES  NO

X10.9.2 Do all pressure line hoses meet or exceed SAE Specification 100R2 and equal to Gates high pressure hose, type C2AT for sizes up to and including 1"ID  YES  NO

X10.9.3 Is suction hose 2" nominal ID SAE Specification 100R4, braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings  YES  NO

X10.9.4 Are all hydraulic hoses fully cleaned on interior, installed and ready for operation.  YES  NO

X10.9.5 Are grommets used when routing hoses through steel bracketing or frame members  YES  NO

X10.9.6 Are Snap-Tite quick disconnects (manifold mounted) supplied for the forward and rear spinner 1/2 inch pressure and return lines  
SEE ADDENDUM #2  YES  NO

X10.9.7 Are all fittings and connectors steel type designed for high pressure hydraulic system  YES  NO

X10.9.8 Were pipe thread ported components and connectors used only when the specific component is not available with SAE or JIC Porting  YES  NO

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X10.9.9 Were all pipe thread connectors coated with liquid teflon pipe sealer before assembly?  
 YES  NO

X10.9.10 Are the hoses run to the front of truck chassis for snowplow functions manifold mounted behind the front bumper with sufficient access for pump assembly service and snowplow hitch installation  
 YES  NO

X10.9.11 Are lines equipped with complete 1/2"VH" series Snap-Tite quick disconnects, metal caps and plugs  
 YES  NO

**X10.10 Other Standard Features:** \_\_\_\_\_

**X10.11 Initial servicing and pretesting:**

X10.11.1 Initial fill of reservoir with high grade 32AW hydraulic fluid 40 gallon level marked on sight glass  
 YES  NO

X10.11.2 Start up and initial run of hydraulic system, checking for leaks, excess heat, system efficiency  
 YES  NO

Will you replace any defective component  YES  NO

You will be responsible for any defects discovered at the time of installation of spreader and plow  
 YES  NO

X10.12 Are hydraulic lines located within 10" of exhaust system metal lines  YES  NO

X10.12 If successful vendor, will you provide WVDOH with complete list of all filters for normal maintenance?  
 YES  NO

**X10.13 Have you included with your bid detailed component specifications, product literature, system component layout drawing with bill of materials and full functional hydraulic system schematics in accordance with JIC and ANSI-Y32**  
 YES  NO

**X10.14 If you are the successful vendor, will you provide WVDOH with complete list of all filters required for normal maintenance on unit**  
 YES  NO

**X10.15 Describe your training sessions that will be provided with each order at an Equipment Division facility:**

THREE ONE DAY TRAININGS PER P.O.

LEAVE AS WRITTEN:

X8.18.4 Is the pump the integral filter type unit  YES  NO

LEAVE AS WRITTEN:

X8.18.5 Power steering reservoir: Remote mounted  YES  NO

Capacity: \_\_\_\_\_ qt. incorporating a filter which is easy to remove and replace  YES  NO

SEE CHASSIS SPECS

FROM:

X8.20.3 Wheel paint: \_\_\_\_\_

TO:

X8.20.3 Wheel paint: \_\_\_\_\_  
Are they powder coated  YES  NO  
Gray top coat  YES  NO

SEE CHASSIS SPECS

NO CHANGE REQUIRED:

X9.2.1 Floor: 1/4 inch AR400 190,000 PSI yield strength steel with 5 inch radius built into floor, all one piece

FROM:

X9.5.5 Shovel bracket  YES  NO

TO:

X9.5.5 Shovel bracket (front of bed behind driver)  YES  NO

DELETE:

X9.5.9 Self cleaning safety platform non-skid material located on both sides of dump body  YES  NO

FROM:

X10.1.10 Pump Output:

TO:

X10.1.10 Pump Output: 71 cc/Revolution

**FROM:**

**X10.3.2** Is each work section pressure compensated with fully integrated load sense network  
\_\_\_\_\_ YES \_\_\_\_\_ NO

Is flow output relative to spool travel with preset maximum flow rate obtained at maximum spool stroke to provide feathering control of operated function  
\_\_\_\_\_ YES \_\_\_\_\_ NO

**TO:**

**X10.3.2** Is each work section pressure and flow compensated with fully integrated load sense network  
  X   YES \_\_\_\_\_ NO

Is flow output relative to spool travel with preset maximum flow rate obtained at maximum spool stroke to provide feathering control of operated functions  
  X   YES \_\_\_\_\_ NO

**FROM:**

**X10.3.6** Is a priority section installed to allow plow to raise in a system over demand situation  
\_\_\_\_\_ YES \_\_\_\_\_ NO

**TO:**

**X10.3.6** If valve supplied pre-compensated design   X   YES \_\_\_\_\_ NO

Is a priority section provided to allow plow raise in an over demand situation  
  X   YES \_\_\_\_\_ NO

Is system post compensated \_\_\_\_\_ YES   X   NO  
(Priority section is not required due to flow being divided across all operating valve sections)

**LEAVE AS WRITTEN:**

**X10.3.11.2** Is full flow workport relief valve installed in the power down port, set at 500 PSI to prevent full system pressure on down stroke   X   YES \_\_\_\_\_ NO

**DELETE:**

**X10.3.12.1** Is full flow workport relief valve preset at maximum required unlock pressure installed in power down workport   YES   NO

FROM:  
X10.5.3

Is system capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes and fully functional in both front and rear material discharge selection  YES  NO

TO:  
X10.5.3

Is system capable of operation in ground speed oriented closed loop conveyor feed back, open loop, manual set, blast and unload modes  YES  NO

FROM:  
X10.9.6

Are Snap-Tite quick disconnects (manifold mounted) supplied for the forward and rear spinner 1/2 inch pressure and return lines  YES  NO

TO:  
X10.9.6

Are Snap-Tite quick disconnects (manifold mounted) supplied for the spinner 1/2 inch pressure and return lines  YES  NO



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
708EC018

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
MICHAEL AUSTIN 304-558-2402

VENDOR

\*709035314      304-485-4410  
 MATHENY MOTOR TRUCK COMPANY  
 PO BOX 1304  
 PARKERSBURG WV 26102-1304

SHIP TO

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

DATE PRINTED 07/10/2008	TERMS OF SALE NET 30 DAYS	SHIP VIA GROUND	FOB BUCKHANNON WV	FREIGHT TERMS PREPAID
BID OPENING DATE: 07/30/2008		BID OPENING TIME 01:30PM		

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
ADDENDUM NO. 1						
BID OPENING DATE AND TIME CHANGED						
FROM: 07/23/08 AT 1:30 P.M.						
TO: 07/30/08 AT 1:30 P.M.						
NO OTHER CHANGES						
0001	1	EA		065-30		
62,000 GVW CAB AND CHASSIS, DUMP BODY						
***** THIS IS THE END OF RFQ 708EC018 ***** TOTAL: _____						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS			
SIGNATURE <i>M. J. Matheny</i>	TELEPHONE 304-485-4418	DATE 07/29/08	
TITLE CEO	FEIN 55-0320770	ADDRESS CHANGES TO BE NOTED ABOVE	

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





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  
**708EC018**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF  
**MICHAEL AUSTIN**  
**304-558-2402**

**VENDOR**  
 \*709035314      304-485-4410  
**MATHENY MOTOR TRUCK COMPANY**  
**PO BOX 1304**  
  
**PARKERSBURG WV 26102-1304**

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

DATE PRINTED	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
<b>07/24/2008</b>				

BID OPENING DATE: **07/30/2008**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
<b>ADDENDUM NO. 2</b>						
<b>CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.</b>						
<b>BID OPENING DATE AND TIME REMAINS 07/30/08 @ 1:30 P.M.</b>						
<b>NO OTHER CHANGES.</b>						
<b>0001</b>	<b>1</b>	<b>EA</b>		<b>065-30</b>		
	<b>62,000</b>			<b>GVW CAB AND CHASSIS, DUMP BODY</b>		
<b>***** THIS IS THE END OF RFQ 708EC018 ***** TOTAL:</b>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>MJ Matheny</i>	TELEPHONE <b>304-405-4418</b>	DATE <b>07/26/08</b>
TITLE <b>CEO</b>	FEIN <b>55-0320716</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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

708EC018  
PRE BID ADDENDUM . #2

62,000 GVW CAB AND CHASSIS, DUMP BODY, HYDRAULIC SYSTEM

(AFTER APPROVAL FROM MANAGEMENT TO PROCEED, ATTACHED IS THE ADDENDUM)

CHANGES TO BIDDER'S EVALUATION REPORT:

FROM:

X8.3 – Wheelbase: \_\_\_\_\_ inches

TO:

X8.3 – Wheelbase: 205 inches

Is it a set forward axle design for snowplow applications for various plows  
  X   YES        NO

NO CHANGE REQUIRED:

X8.3.2 – Bumper to back of cab: 113.6 inches dimension excluding frame extension

LEAVE AS WRITTEN:

X8.4.2 – R.B.M. 2,820,000Ins./Lb. per rail

Have you submitted shop drawings pertaining to frame construction and frame extension  
  X   YES        NO

FROM:

X8.5 – Cab: Is cab manufacturers standard steel and/or fiberglass   X   YES        NO  
Is hood tilt hood and fenders either steel and/or fiberglass and provided with rear air bag suspension  
       YES        NO

TO:

X8.5 – Cab: Is cab manufacturers standard steel, aluminum, and/or fiberglass   X   YES        NO  
Is hood tilt hood and fenders either steel and/or fiberglass and provided with rear air bag suspension  
  X   YES        NO

## LEAVE AS WRITTEN:

X8.5.4 – Seats: Fully adjustable air ride high back with head rest, cloth covered both left hand and right hand sides  YES  NO

**Clearance between seats: 24 inches**

## FROM:

X8.5.8 – Windshield wipers and washers: Manufacturer’s heaviest duty with intermittent feature with manufacturers largest reservoir filled with antifreeze type solvent  YES  NO

## TO:

**X8.5.8 – Windshield Wipers and Washers: Must be manufacturer’s heaviest duty “artic type” With intermittent feature with manufacturers largest reservoir filled with antifreeze type solvent  YES  NO**

## DELETE:

X8.5.9.7.1 – Air intake system fitted with inside/outside air; actuated by “air” valve  YES  NO

## FROM:

X8.5.10.2 - Both mirrors heated type with stainless steel  YES  NO OR aluminum  YES  NO Hardware, heads, and fasteners

## TO:

X8.5.10.2 Both mirrors heated type with stainless steel  YES  NO or Composite  YES  NO or aluminum  YES  NO hardware, heads, and fasteners

## FROM:

X8.5.11 Grab Handle: Right hand and left hand sides of cab, rear of door opening  YES  NO

## TO:

X8.5.11 Grab Handle: Right hand and left hand sides, internal of external mounting to rear of door opening.  YES  NO

**If inside handles are featured, one (1) outside, left mounted grab handle with non-slip insert for bed aggregate inspection is furnished  YES  NO**

## LEAVE AS WRITTEN:

X8.5.12 Air horns, with snow shields, cab mounted with adequate clearance for future installation of body cab shield   x   YES        NO

## LEAVE AS WRITTEN:

X8.5.14 Manufacturer will provide for stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount   x   YES        NO

Stone/gravel guard provided   x   YES        NO

## LEAVE AS WRITTEN:

X8.5.15 Air conditioning: Manufacturers standard package for model bid. "APADS" to specified air condition system   x   YES        NO

## LEAVE AS WRITTEN:

X8.6.1.3 In line fuel heater with thermostatically controlled by pass maintain #2 diesel fuel temperature above cloud point before diesel fuel passes through the filter

SEE EXCEPTION REPORT

  x   YES        NO

Manufacturer: Arctic Fox Model: C-406-26

## LEAVE AS WRITTEN:

X8.6.2 Engine Brake:

Manufacturer: Volvo Model: 1-VEB

## LEAVE AS WRITTEN:

X8.6.3 Engine components facing wheel areas, on both sides, and areas to the rear of wheels shielded by means of rubber skirts supported by easily removable steel rods

  x   YES        NO

FROM:

**X8.7.1** The system incorporates a thermostat and bypass for warm up and filled with permanent OAT type extended life or equal antifreeze rated to a -30 degree F or lower  
 \_\_\_\_\_ YES \_\_\_\_\_ NO

TO:

**X8.7.1** The system incorporates a thermostat and bypass for warm up and filled with permanent type extended life antifreeze or equal rated to a -30F or lower  
  x   YES \_\_\_\_\_ NO

FROM:

**X8.9.2** Four (4) heavy duty, 12 volt batteries, maintenance free \_\_\_\_\_ YES \_\_\_\_\_ NO  
**X8.9.2.1** Reserve capacity: \_\_\_\_\_ minutes at 80 degrees F  
**X8.9.2.2** Cold crank AMPS: \_\_\_\_\_ total at 0 degrees F

TO:

**X8.9.2** Number of batteries:   3    
 2500 CCA heavy duty maintenance free batteries   x   YES \_\_\_\_\_ NO  
 Reserve capacity:   640   minutes

FROM:

**X8.9.6.1** Provisions in left rear back of cab for manufacturers approved wiring and weather proof disconnect plug to operate the following lights on truck mounted chemical spreader \_\_\_\_\_ YES \_\_\_\_\_ NO

TO:

**X8.9.6.1** Provisions in the left rear corner of the cab for manufacturers approved wiring and weather proof disconnect plug to operate the following lights on truck mounted chemical spreader  
  x   YES \_\_\_\_\_ NO

FROM:

X8.10

**Power Train Overview:**

Lubricants for front axle hubs and differentials, manual transmission, transfer cases, and all rear differentials meet or exceed all appropriate MIL and SAE specifications for synthetic lubricants and have all plugs identified as synthetic or painted red

\_\_\_\_\_ YES \_\_\_\_\_ NO

TO:

X8.10

**Power Train Overview:**

Lubricants for front axle hubs and differentials, automatic transmission, transfer cases, and all rear differentials meet or exceed all appropriate MIL and SAE specifications for synthetic lubricants and have all plugs identified as synthetic or painted red

YES \_\_\_\_\_ NO

FROM:

X8.10.1

**Transmission:** \_\_\_\_\_  
**Manufacturer transmission oil cooler** \_\_\_\_\_ YES \_\_\_\_\_ NO

TO:

X8.10.1

**Transmission:**

**Manufacturer:** Allison **6 speed**  YES \_\_\_\_\_ NO  
**With manufacturer transmission oil cooler**  YES \_\_\_\_\_ NO

FROM:

X8.12.2

Unit equipped with four (4) wheel dual reduction with inner axle power divider  
 \_\_\_\_\_ YES \_\_\_\_\_ NO

TO:

X8.12.2

Unit has four (4) wheel dual reduction carriers equipped with driver controlled main locking differential in forward and rear axle that is manually controlled

YES \_\_\_\_\_ NO

**And has traction control device via ABS system, ATC, or equal**

YES \_\_\_\_\_ NO

Unit equipped with all wheel lock up 0-25 MPH, driver controlled (above 25 MPH, ATC will control)

YES \_\_\_\_\_ NO

## FROM:

X8.13.2 Front spring pins or bearings/bushing furnished with 360 degree grease grooves to insure adequate lubricant penetration \_\_\_\_\_ YES \_\_\_\_\_ NO

## TO:

X8.13.2 Front spring pins or bearings/bushing furnished with 360 degree grease grooves to insure adequate lubricant penetration   x   YES \_\_\_\_\_ NO

Are they rubber \_\_\_\_\_ YES   x   NO

## LEAVE AS WRITTEN:

X8.15.3 Front wheel seals oil lubricated type   x   YES \_\_\_\_\_ NO

Manufacturer: Chicago Rawhide

## NO CHANGE REQUIRED:

**X8.16.2 Compressor:**

**Manufacturer:** WABCO **Model:** SS636 **Cubic Ft.** 31.8

## FROM:

X8.17.3.2 Tires:  
Size: \_\_\_\_\_ Ply: \_\_\_\_\_

## TO:

X8.17.3.2 Tires:  
Size: 315/80R22.5 Ply: L

Weight Rating: 9090 lbs.

## NO CHANGE REQUIRED:

X8.17.6 Tires: radials   x   YES \_\_\_\_\_ NO

Manufacturer: Goodyear Front Tire: G291

Manufacturer: Goodyear Rear Tire: G244MSD

LEAVE AS WRITTEN:

X8.18.4 Is the pump the integral filter type unit  YES  NO

LEAVE AS WRITTEN:

X8.18.5 Power steering reservoir: Remote mounted  YES  NO  
Capacity: 4 qt. incorporating a filter which is easy to remove and replace  
 YES  NO

FROM:

X8.20.3 Wheel paint: \_\_\_\_\_

TO:

X8.20.3 Wheel paint: Grey, powder paint  
Are they powder coated  YES  NO  
Gray top coat  YES  NO

NO CHANGE REQUIRED:

X9.2.1 Floor: \_\_\_\_\_ inch AR400 \_\_\_\_\_ PSI yield strength steel with \_\_\_\_\_ inch radius  
built into floor, all one piece

FROM:

X9.5.5 Shovel bracket  YES  NO

TO:

X9.5.5 Shovel bracket (front of bed behind driver)  YES  NO

DELETE:

X9.5.9 Self cleaning safety platform non-skid material located on both sides of dump body  
 YES  NO

SEE  
BODY  
SHARP

FROM:

X10.1.10 Pump Output:

TO:

X10.1.10 Pump Output: \_\_\_\_\_ cc/Revolution





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  
**708EC018**

PAGE  
**1**

ADDRESS CORRESPONDENCE TO ATTENTION OF:  
**MICHAEL AUSTIN  
 304-558-2402**

**\*709035314      304-485-4410**  
**MATHENY MOTOR TRUCK COMPANY**  
**PO BOX 1304**  
  
**PARKERSBURG WV 26102-1304**

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

DATE PRINTED <b>08/26/2008</b>	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS
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BID OPENING DATE: **09/10/2008**      BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT. NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
<b>ADDENDUM NO. 7</b>						
<b>CHANGES TO THE SPECIFICATIONS PER THE ATTACHED.</b>						
<b>BID OPENING DATE AND TIME REMAINS 09/10/08 @ 1:30 P.M.</b>						
<b>NO OTHER CHANGES.</b>						
<b>0001</b>	<b>1</b>	<b>EA</b>		<b>065-30</b>		
	<b>62,000 GVW CAB AND CHASSIS, DUMP BODY</b>					
<b>***** THIS IS THE END OF RFQ 708EC018 ***** TOTAL:</b>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>M. Matheny</i>	TELEPHONE <b>304-485-4410</b>	DATE <b>08/28/08</b>
TITLE <b>CRU</b>	FEIN <b>55-0370770</b>	ADDRESS CHANGES TO BE NOTED ABOVE

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

708EC018  
ADDENDUM #7

62,000 GVW CAB AND CHASSIS, DUMP BODY, HYDRAULIC SYSTEM

CHANGES TO BIDDER'S EVALUATION REPORT:

FROM:

X8.12 Rear Axle:

X8.12.1      Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_

TO:

(No Change Required)

X8.12 Rear Axle:

X8.12.1      Manufacturer: Meritor (Rockwell)      Model: RT46-160-P

STATE OF WEST VIRGINIA  
Purchasing Division**PURCHASING AFFIDAVIT**

**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 owed 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 exceed 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:** Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

**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: MATHENY MOTOR TRUCK CO.

Authorized Signature: *M. Matheny*

Date: 07/29/08



**MATHENY MOTOR TRUCK CO.**

Established 1922

3rd & Ann Streets • P.O. Box 1304

Parkersburg, WV 26102

(304) 485-4418 • (304) 485-2577 fax

[www.mathenymotors.com](http://www.mathenymotors.com)

---

**"Exception to Specifications"**

by

**MATHENY MOTOR TRUCK COMPANY FOR RFQ NUMBER 708EC018**

- 8.5.12 Air horns are mounted under cab. This offers protection from snow and more than adequate clearance for future installation of body cab shield.
- 8.17.5 Installation of wheel-guard separators by Matheny Motor Truck Company is included in our bid. Volvo does not recommend the use of wheel-guard separators in dump truck applications and this is why they are not installed by Volvo. Therefore, Matheny Motor Truck Company also recommends that the West Virginia Division of Highways not to use wheel-guard separators.
- 8.6.1.3 We are providing Artic Fox in tank fuel warmer. See attachment.



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July 29, 2008

State of West Virginia  
Division of Highways  
Equipment Division  
Route 33  
Brushy Fork Road  
Buckhannon, WV 26201

Subject: RFQ Number 708EC018 Section 8.22

Dear Bid Reviewer:

This letter is my notification that the 2009 Volvo Truck we are bidding to the Division of Highways in RFQ Number 708EC018 will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.

Very truly yours,

A handwritten signature in cursive script that reads "Mike Matheny".

Mike Matheny  
CEO

PONTIAC BUICK

GMC

SUZUKI



KING TRUCKS  
A Toyota Group Company



JERR-DAN  
An Oshkosh Truck Corporation Company

*Extended*  
**STANDARD TRUCK**  
**WARRANTY CERTIFICATE**

X6.5

MATHENY MOTOR TRUCK CO.



Volvo Group North America, Inc., d/b/a Volvo Trucks North America, warrants certain individual components of the new Volvo truck to be free from defects in material and workmanship under normal use and service up to the periods as specified, provided all Volvo Trucks North America maintenance and inspection requirements found in the Operator's Manuals and service manuals/instructions are followed. All warranty periods are calculated from date in service. All coverage is 100% for parts and labor except as noted.

**LIMITATIONS AND EXCLUSIONS TO THIS WARRANTY APPEAR ON THE REVERSE SIDE OF THIS CERTIFICATE. THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT AND MUST BE READ AND UNDERSTOOD.**

This warranty applies to VNL, VNM, VHD and VT models manufactured by Volvo Trucks North America, operated in the United States and Canada and placed in service on or after **January 1, 2007**. Specific coverage is based on the application and weight class as described in the following chart:

	<b>Standard NORMAL DUTY</b>	<b>Standard HEAVY DUTY</b>	<b>Standard SEVERE DUTY</b>
<b>Typical Vocations</b>	Line / Long Haul, Short Haul, or Pickup & Delivery	Heavy Line Haul, Construction, Refuse, Fire or Rescue Service	Heavy Construction, Heavy Refuse, Off- Road, Heavy Haul, Mining, Logging, or Oil Field
<b>Weight Class Qualifications</b>	<i>Vehicle must have</i> GVWR ≤ 63,000 lbs. (≤ 28 metric tons) or GCWR ≤ 110,000 lbs. (≤ 50 mt.)	<i>Vehicle must have</i> GVWR ≤ 80,000 lbs. (≤ 36 mt.) or GCWR ≤ 143,000 lbs. (≤ 65 mt.)	<i>Vehicle must have</i> GAWR > 46,000 lbs. (> 21 mt.) or GVWR > 80,000 lbs. (> 36 mt.) or GCWR > 143,000 lbs. (> 65 mt.)
<b>Basic Coverage</b>	<del>24</del> 24 months or 100,000 miles (161,000 km) or 3,250 operating hours	<del>24</del> 24 months or 100,000 miles (161,000 km) or 3,250 operating hours	12 months or 100,000 miles (161,000 km) or 3,250 operating hours
<b>Air Conditioning</b>	Air conditioning (sealed system only) is covered for 12 months with no mileage limitation.		
<b>Engine</b>	Not covered under this warranty certificate. See respective manufacturer's warranty certificate and paragraph 15 on the reverse side.		
<b>Transmission, Driveline, Rear Axle, Front Non-Drive Steer Axle</b>	36 months or 350,000 miles (563,000 kilometers) or 9,000 operating hours Covered Components are as follows: • Manual Transmission-Transmission assembly • Rear Axle-Differential carrier assembly & axle housing • Front Non-Drive Steer Axle-Axle beam, steering knuckle, & tie rod • Driveline-Bearings, hangers & shafts		12 months or 100,000 miles (161,000 km) or 3,250 operating hours
	Allison Automatic Transmissions are not covered under this warranty certificate. See paragraph 15 on the reverse side.		
<b>I-Shift Transmission</b>	Engine Torque ≤ 1750 ft/lb: 60 months or 750,000 miles (1,207,000 km) or 15,000 operating hours Engine Torque > 1750 ft/lb: 36 months or 500,000 miles (805,000 km) or 12,500 operating hours	36 months or 250,000 miles (402,000 km) or 6,250 operating hours	12 months or 100,000 miles (161,000 km) or 3,250 operating hours
<b>I-Shift Clutch</b>	36 months or 300,000 miles (480,000 km) or 7,500 operating hours	36 months or 250,000 miles (402,000 km) or 6,250 operating hours	12 months or 100,000 miles (161,000 km) or 3,250 operating hours
<b>Cab Structure</b>	72 months or 750,000 miles (1,207,000 km) or 15,000 operating hours	60 months or 500,000 miles (805,000 km) or 12,500 operating hours	36 months or 250,000 miles (402,000 km) or 9,000 operating hours
<b>Internal Cab Corrosion</b>	96 months or 1,000,000 miles (1,609,000 km) or 18,000 operating hours	72 months or 650,000 miles (1,050,000 km) or 15,000 operating hours	48 months or 350,000 miles (563,000 km) or 10,800 operating hours
	Covered only where metal is perforated from the inside to the outside. See paragraph 14 on the reverse side.		
<b>Frame Rail / Crossmembers</b>	72 months or 750,000 miles (1,207,000 km) or 15,000 operating hours	60 months or 500,000 miles (805,000 km) or 12,500 operating hours	36 months or 250,000 miles (402,000 km) or 9,000 operating hours
<b>Emission Control System Components</b>	As part of the emission control system, the charge air cooler is warranted for 60 months or 100,000 miles, whichever occurs first. For emission control system coverage for the Volvo engine, see the Volvo Engine Warranty Certificate. For non-Volvo engine, see the engine manufacturer's certificate for details. For coverage for vehicles sold for use in California, see Operator's Manual - Engine and Maintenance.		
<b>Noise Emission</b>	LIFE OF VEHICLE: Volvo Trucks North America warrants to the first purchaser of this vehicle for purposes other than resale, and to each subsequent purchaser, that this vehicle was designed, built and equipped to conform, at the time of sale to such first purchaser, with all applicable U.S. EPA noise control regulations. This warranty is not limited to any vehicle particular part, component, or system of the vehicle. Defects in the design, assembly or any part, component or system of the vehicle which at the time of sale to such first purchaser, caused noise emission levels to exceed Federal standards are covered by this warranty for the life of the vehicle. EXCLUSIONS: Failures which arise as a result of tampering rather than from defects in the design, assembly, or any part, components, or system of the vehicle are not covered by this warranty.		

Volvo Trucks North America reserves the right to make any changes in design, or to make additions to or upon its products, without incurring any obligations to install the same on commercial vehicles previously built.

**THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES AND REPRESENTATIONS OR CONDITIONS, STATUTORY OR OTHERWISE, EXPRESSED OR IMPLIED INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**THESE LIMITATIONS AND EXCLUSIONS ARE IMPORTANT  
AND MUST BE READ AND UNDERSTOOD.**

**LIMITATIONS** – Volvo Trucks North America's obligation is limited to, at its sole option, repair or replacement of parts which are acknowledged by it to be defective. In the case of acknowledged defective assemblies, exchange with factory rebuilt units may occur. The defective parts or assemblies replaced shall become the property of Volvo Trucks North America. Warranty repairs performed by the dealer's shop in accordance with the terms of the warranty set forth herein are free of charge. Warranty repairs do not constitute an extension of the original warranty period for the vehicle or any part thereof. Warranty consideration can only be given if the deficiency is brought to the attention of an authorized Volvo Truck dealer upon discovery and the vehicle must be made available, in a timely fashion during the coverage period, for repair.

**NO PAYMENT OR OTHER COMPENSATION WILL BE MADE FOR CONSEQUENTIAL,  
INDIRECT OR INCIDENTAL EXPENSES OR DAMAGES OF ANY KIND.**

**EXCLUSIONS:**

1. **REPAIR:** Warranty consideration can only be given if the deficiency is brought to the attention of an authorized Volvo Truck dealer upon discovery and the truck must be made available, in a timely fashion during the warranty period, for repair. Failures resulting from the user's unreasonable delay in making the truck available, after being notified of a potential product problem, are not covered.
2. **REPEAT REPAIRS:** The term "repeat repair" only refers to the repair or replacement of the exact same part or component more than once. Repair or replacements of different components within the same system does not constitute a repeated repair.
3. **DAMAGES:** Damages due to accidents, misuse, negligence, improper operations, alterations, storage or transport, operation at excessive speeds, loading beyond the factory rated load capacity, and improper or insufficient maintenance services are not covered. Damages due to failure to follow Volvo Trucks North America service procedures are considered damages due to improper maintenance services.
4. **APPLICATION:** The responsibility of determining the correct application and/or specification for a vehicle sold to a customer belongs at the selling location. Vehicle application problems, including but not limited to, replacement of incorrect axle or transmission gear ratios, failures of component parts of vehicles being operated in excess of factory rated load capacities, or the use of a vehicle for a purpose of which it was not intended are not covered.
5. **ENVIRONMENTAL DAMAGE:** Parts made out of cloth, leather, wood, rubber, synthetics, paint or chrome which have been effected by exposure to the elements or chemical influence including, but not limited to road salts/chemicals, industrial fall-out or the use of improper cleaners, polishes, and or waxes are not covered.
6. **GLASS:** Glass breakage and scratches are not covered unless positive physical proof of manufacturing responsibility is established.
7. **SUSPENSION PARTS:** Suspension parts, including but not limited to rubber bushings, torque rod bushings, spring pins and bushings, and all greased lubrication points that fail due to improper maintenance, abnormally severe service or abuse are not covered.
8. **ALTERATIONS:** Any vehicle repaired and/ or altered in any way, so as to adversely effect, in Volvo Trucks North America's sole judgment, its stability or reliability, is not covered.
9. **OPTIONAL EQUIPMENT:** Any part of the truck that fails, malfunctions or does not perform as a result of improper conversion or installation of special bodies or equipment by other manufacturers or suppliers is not covered.
10. **MAINTENANCE AND PARTS CONSUMED ("Consumables"):** Normal maintenance services including, but not limited to, replacement of oil filters, adjustments of the engine injection pump / transmission / brakes / linkages, as well as diagnosis, test time and all other adjustments, are not covered. Parts which are normally consumed or worn out during the vehicle's usual service life and customarily replaced during usual maintenance service are not covered or have limited coverage. These parts include, but are not limited to, the following:  
*NOT COVERED* - Brake linings, clutch brake, clutch linings, mud flaps and brackets.  
*COVERED FOR 30 DAYS* - Fluorescent lights or ballast, light bulbs, fuses, wiper blades and all filters (oil, fuel, air, etc.).  
*COVERED FOR 90 DAYS* - Loose fasteners, leaking fittings or hose clamps.  
*COVERED FOR 12 MONTHS, OR 100,000 MILES (161,000 KM) OR 3,250 OPERATING HOURS, WHICHEVER OCCURS FIRST* - Cab suspension on models used in heavy duty applications, batteries, frame paint, sealed light assemblies, exhaust flex pipe, hose clamps, all rubber/nylon bushings or mounts, flexible hoses, all belts, shock absorbers (leakage only), wheel seals, and all grease lubricated points (tie rods ends, king-pins, u-joints, spring pins, etc.)
11. **ALIGNMENT:** Alignment of axle(s) and balancing of tires, including changing of axle camber, caster, toe and thrust angle settings are not covered.
12. **NON-GENUINE PARTS:** Any vehicle which has been repaired by use of parts and accessories, as well as major assemblies and exchange units, which are substandard and which cause a vehicle component or system to fail are not covered.
13. **TIRES:** Tires are covered by separate warranties given by their respective manufacturers.
14. **CAB STRUCTURE AND CORROSION:** Cab structural defects or cab corrosion that occurs in areas of the cab that have been previously damaged, repaired, altered or modified are not covered. Cab corrosion where metal is perforated from the outside to the inside is not covered.
15. **ENGINES AND AUTOMATIC TRANSMISSIONS:** The engines and Allison automatic transmissions used in Volvo trucks are warranted by their respective manufacturers. Refer to the engine and transmission manufacturers' warranty statements.
16. **ODOMETER READING:** Any vehicle in which the odometer has been disconnected or the mileage reading has been altered and the actual mileage cannot be readily determined is not covered.
17. **ACCESS TO INFORMATION:** The user must allow Volvo Trucks North America full access to all data stored in all Electronic Control Modules; failure to do so may result in the loss of warranty coverage.
18. **PREMIUM LABOR:** Labor for overtime and/or shift differential is not covered.
19. **EXCESSIVE LABOR:** Excessive labor for a warrantable repair due to installation of equipment or body by the customer is not covered except in the event the dealer sells the complete chassis and body as a package.
20. **MISC. EXPENSE:** Road service, towing, meals, lodging, telephone calls, travel time, loss of cargo, downtime, loss of revenue, rental vehicles, or driver's wages and other miscellaneous expenses are not covered. Shop supplies, lube oil, lubricants, sealers, anti-freeze, filter elements and labor performed by a non-approved location are not covered.
21. **ADDITIONAL COMPONENTS:** Components or parts that are not installed by Volvo Trucks North America are not covered. Volvo Trucks North America factory manufacturing records will determine Volvo Trucks North America installations.
22. **APPLICATION CHANGE OR CHANGE OF OWNERSHIP:** If at any time during the term of the original warranty there is a change in the application of the vehicle or a change in ownership, the owner must notify Volvo Trucks North America, Post Office Box 26115, Greensboro, NC 27402-6115 in writing and within 30 days of date of the change. Failure to provide such timely notice may result in the warranty becoming null and void. If the change in ownership is accepted by Volvo Trucks North America, and/or the change in application does not affect coverage, Volvo Trucks North America will transfer any remaining applicable portion of the warranty to the new owner or, for the new application.

**VOLVO**

Volvo Trucks North America  
(A Division of Volvo Group North America, Inc.)  
Post Office Box 26115  
Greensboro, North Carolina 27402-6115







X8.17.3.2  
708 E 2018

MATHEW  
MOTORS

**Volvo Trucks North America**

**PRODUCT INFORMATION**

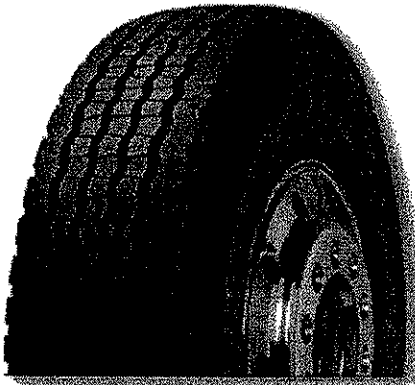
**093-158 315/80R22.5L Goodyear G291 (18000 lbs. GAWR)**

Affects: All Models

Related: Vehicle Model and Application  
Rim/Wheel Package Front (084)  
Front Axle Package (370)

Restrictions: None

**Goodyear G291 Data Sheet**



**FEATURES**

- Rugged rib tread design
- Hundreds of precision shaped tread wedges
- Proven Unisteel construction
- Superb traction, wet or dry
- Great tire for metro service applications

**BENEFITS**

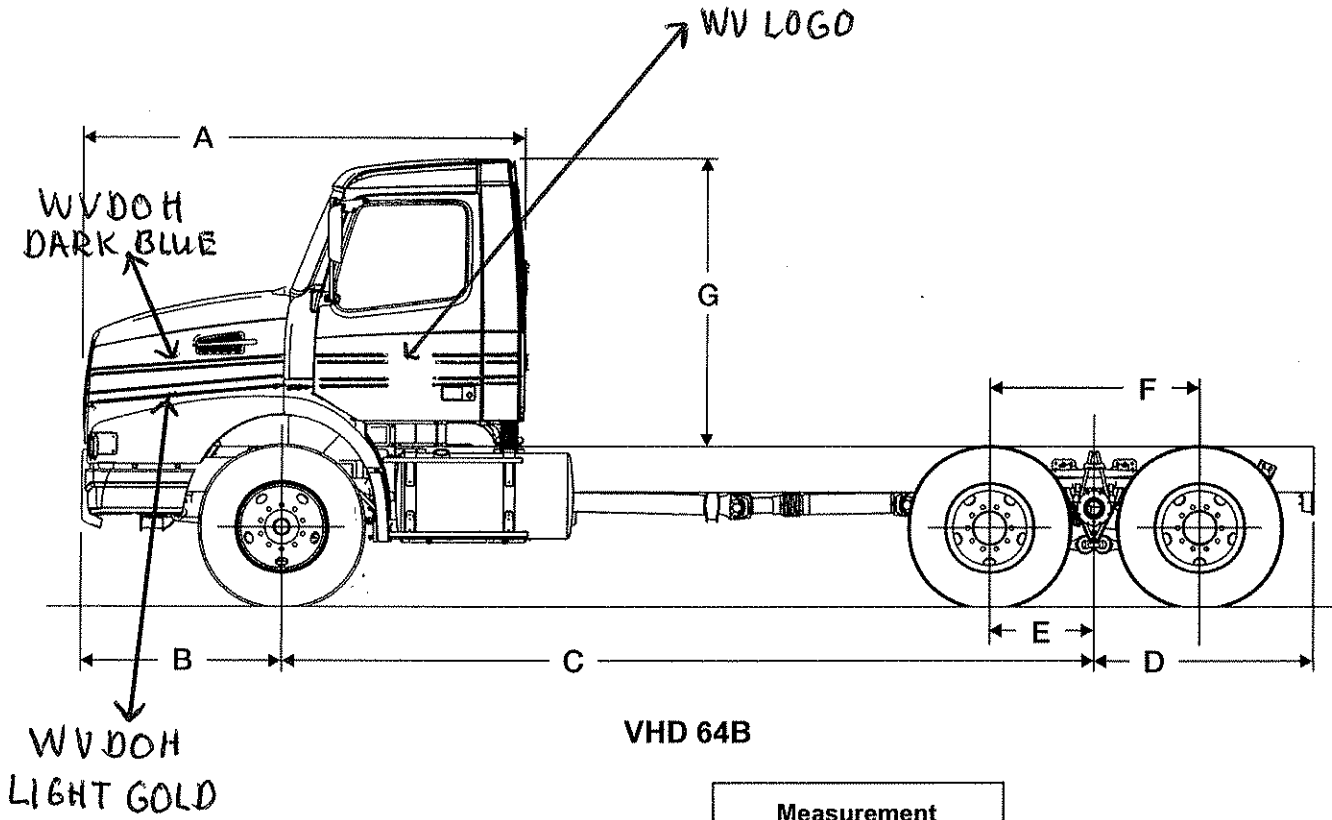
- Superb highway traction
- Resists irregular and excessive wear
- Promotes strength and retreadability
- Superb performance for steer axle or all wheel positions

**Application Guidelines: Regional Pick-up and Delivery, All Position**

SIZE	TREAD DEPTH	RIM WIDTH		TIRE WEIGHT		OVERALL WIDTH		OVERALL DIAMETER		STATIC LOADED RADIUS		RETREAD BUFFING RADIUS		RETREAD BASE WIDTH	
		(IN)	(MM)	(LBS)	(KG)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)	(IN)	(MM)
315/80R22.5 J	18	9.00	229	142	64	12.4	315	42.3	1,074	19.7	500	26	660	9.500	241
315/80R22.5 L	18	9.00	229	142	64	12.4	315	42.3	1,074	19.7	500	26	660	9.500	241

SIZE	SPEED RATING (MPH)	SINGLE MAX LOAD		SINGLE INFLATION		DUAL MAX LOAD		DUAL INFLATION		REVS PER		MINIMUM DUAL SPACING		PRODUCT CODE
		(LBS)	(KG)	(PSI)	(KPa)	(LBS)	(KG)	(PSI)	(KPa)	(MILE)	(KM)	(IN)	(MM)	
315/80R22.5 J	75	8,270	3,750	120	830	7,610	3,450	120	830	491	305	13.8	351	756254420
315/80R22.5 L	68	9,090	4,125	130	900	8,270	3,750	130	900	491	305	13.8	351	756256420

8.21.8



	Measurement
A	113.6"
B	51.2"
C	208"
D	55"
E	27"
F	54"
G	74.3"

MATHENY MOTOR TRUCK COMPANY

X 8.4.2.

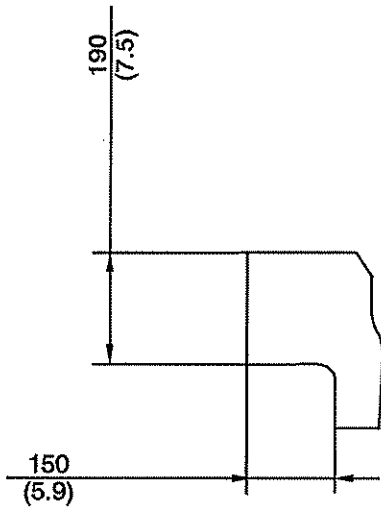


Fig. 3: Side Rail Cutout for 203 mm (8 in.) Front Frame Extension Only

W7001166

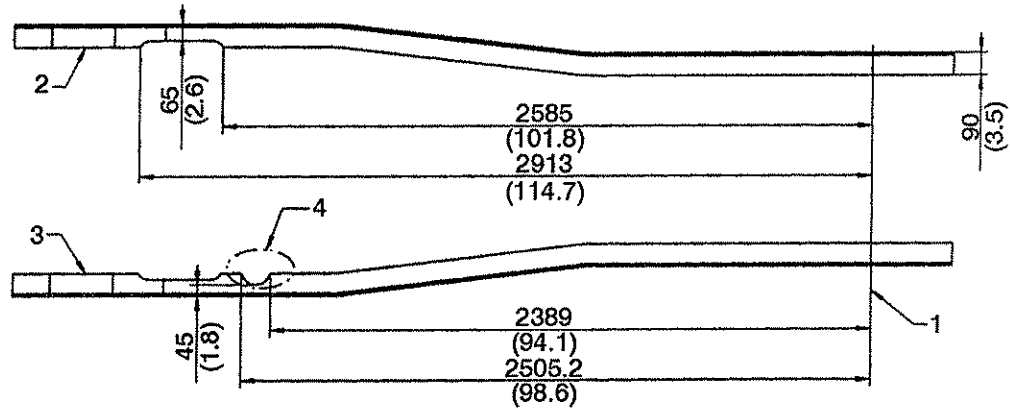


Fig. 4: Frame Rail Cutouts, 90 mm (3.54 in.) Flange, Lower

W7001165

- 1 Back of cab
- 2 Lower right flange
- 3 Lower left flange
- 4 Axle forward steering gear cutout


[View/Checkout](#)

[Back To: Home Page > Fuel & Fluid Warming Systems & Products > In-Tank Fuel Warming](#)

## In-Tank Fuel Warmer with Bypass Thermostat

### PROVEN IN-TANK EFFICIENCY

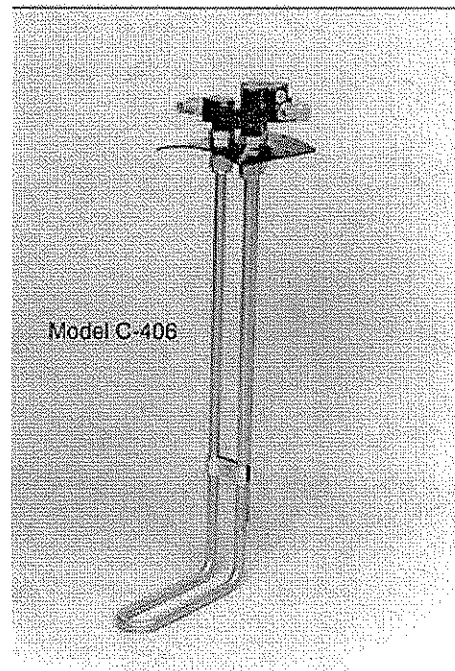
[Download PDF Sales Flier - Bypass Thermostat](#)

Save time and bother – this is the only fuel warmer you install and forget. Run coast to coast, border to border with fuel warming confidence because you are thermostatically protected. Fuel is warmed to the optimum operating temperature in cold weather with the proven Arctic Fox® fuel warmer in-tank design.

An all-mechanical thermostat integrated into the unit bypasses the fuel warming loop when fuel temperature reached optimum operating temperature. This simple "hands off" design is the choice of trucking fleets who demand fool-proof operation.

### FEATURES AND BENEFITS:

- No pre-assembly required.
- Bypasses coolant when fuel temperature reaches optimum operating temperature.
- Bypass feature allows this fuel warmer to be plumbed in series with any other components (preheaters, air compressors, cab heater lines) without affecting coolant flow.
- Simplifies plumbing and reduces fittings.
- Integral design fits all fuel tanks.
- Fully mechanical. No electrical components to cause maintenance problems.
- Maintains temperature levels which are recommended by engine manufacturers for electronic fuel systems.
- Works great with engine preheaters to maintain the 'coolant loop'.
- Helps keep the in-tank fuel within the recommended temperature limits for maximum horsepower



Model C-406

as suggested by  
engine manufacturers.

- Easily installed. Simply install in the same cover plate as your Arctic Fox® Fuel/Fluid Warmer.
- Ideal for hydraulic reservoirs that eventually build their own heat.

**ORDERING:**

Pre-assembled to fit the tank (includes probe tube). Order the heater to fit the outside dimension of the tank. Example: C-406-XX – if outside dimension is 27" order C-406-27.

**NOTE: Warranty void if disassembled.**

U.S. Patent No. 4,964,376

Canadian Patent No. 1,314,850

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For comments or to report problems with this site, contact [lisa@arctic-fox.com](mailto:lisa@arctic-fox.com).

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