



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
707EC010

PAGE
1

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

RFQ COPY
 TYPE NAME/ADDRESS HERE

VENDOR

SHIP TO

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

DATE PRINTED 10/01/2006	TERMS OF SALE	SHIP VIA	F.O.B.	FREIGHT TERMS
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BID OPENING DATE: **11/08/2006** BID OPENING TIME **01:30PM**

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001	1	EA		670-61		
<p>TRUCK MOUNTED HIGH VELOCITY SEWER CLEANER</p> <p>OPEN END CONTRACT</p> <p>TO PROVIDE TRUCK MOUNTED HIGH VELOCITY SEWER CLEANER AS DESCRIBED IN ATTACHED PROCUREMENT SPECIFICATION 813-1-G.</p> <p>THERE WILL BE A MANDATORY PRE-BID CONFERENCE AT THE STATE CAPITOL COMPLEX, BUILDING 15, CONFERENCE ROOM, AT 1:00 PM ON 10/26/06. FAILURE TO ATTEND THE PRE-BID CONFERENCE WILL RESULT IN BID DISQUALIFICATION.</p> <p>QUESTIONS: WRITTEN QUESTIONS WILL BE ACCEPTED THROUGH CLOSE OF BUSINESS (5:00PM EST) ON WEDNESDAY 10/18/06. SEND YOUR QUESTIONS TO: PURCHASING DIVISION ATTENTION JOHN JOHNSTON 2019 WASHINGTON ST. E. CHARLESTON, WV. 25305</p> <p>QUESTIONS MAY BE SENT VIA FAX, E-MAIL, OR REGULAR MAIL E-MAIL: JJOHNSTON@WVADMIN.GOV FAX: 304-558-4115</p> <p>IT IS THE VENDORS RESPONSIBILITY TO VERIFY THAT THEIR QUESTIONS HAVE BEEN RECEIVED BY CALLING 304-558-2402.</p> <p>EXHIBIT 2</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE	TELEPHONE	DATE
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**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 is automatically null and void, and is 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.

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
Charleston, WV 25305-0130



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

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

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

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<p>WHICH HAS AN AFFILIATE OR SUBSIDIARY WHICH EMPLOYS A MINIMUM OF ONE HUNDRED STATE RESIDENTS AND WHICH HAS MAINTAINED ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA CONTINUOUSLY FOR THE FOUR (4) YEARS IMMEDIATELY PRECEDING THE DATE OF THIS CERTIFICATION.</p> <p>B. APPLICATION IS MADE FOR 2.5% PREFERENCE FOR THE REASON CHECKED:</p> <p>() BIDDER IS A RESIDENT VENDOR WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES WORKING ON THE PROJECT BEING BID ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID;</p> <p>OR</p> <p>() BIDDER IS A NONRESIDENT VENDOR EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS OR IS A NONRESIDENT VENDOR WITH AN AFFILIATE OR SUBSIDIARY WHICH MAINTAINS ITS HEADQUARTERS OR PRINCIPAL PLACE OF BUSINESS WITHIN WEST VIRGINIA EMPLOYING A MINIMUM OF ONE HUNDRED STATE RESIDENTS WHO CERTIFIES THAT, DURING THE LIFE OF THE CONTRACT, ON AVERAGE AT LEAST 75% OF THE EMPLOYEES OR BIDDERS' AFFILIATE'S OR SUBSIDIARY'S EMPLOYEES ARE RESIDENTS OF WEST VIRGINIA WHO HAVE RESIDED IN THE STATE CONTINUOUSLY FOR THE TWO YEARS IMMEDIATELY PRECEDING SUBMISSION OF THIS BID.</p> <p>BIDDER UNDERSTANDS IF THE SECRETARY OF TAX & REVENUE DETERMINES THAT A BIDDER RECEIVING PREFERENCE HAS FAILED TO CONTINUE TO MEET THE REQUIREMENTS FOR SUCH PREFERENCE, THE SECRETARY MAY ORDER THE DIRECTOR OF PURCHASING TO: (A) RESCIND THE CONTRACT OR PURCHASE ORDER ISSUED; OR (B) ASSESS A PENALTY AGAINST SUCH BIDDER IN AN AMOUNT NOT TO EXCEED 5% OF THE BID AMOUNT</p>						

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<p>AND THAT SUCH PENALTY WILL BE PAID TO THE CONTRACTING AGENCY OR DEDUCTED FROM ANY UNPAID BALANCE ON THE CONTRACT OR PURCHASE ORDER.</p> <p>BY SUBMISSION OF THIS CERTIFICATE, BIDDER AGREES TO DISCLOSE ANY REASONABLY REQUESTED INFORMATION TO THE PURCHASING DIVISION AND AUTHORIZES THE DEPARTMENT OF TAX AND REVENUE TO DISCLOSE TO THE DIRECTOR OF PURCHASING APPROPRIATE INFORMATION VERIFYING THAT BIDDER HAS PAID THE REQUIRED BUSINESS TAXES, PROVIDED THAT SUCH INFORMATION DOES NOT CONTAIN THE AMOUNTS OF TAXES PAID NOR ANY OTHER INFORMATION DEEMED BY THE TAX COMMISSIONER TO BE CONFIDENTIAL.</p> <p>UNDER PENALTY OF LAW FOR FALSE SWEARING (WEST VIRGINIA CODE 61-5-3), BIDDER HEREBY CERTIFIES THAT THIS CERTIFICATE IS TRUE AND ACCURATE IN ALL RESPECTS; AND THAT IF A CONTRACT IS ISSUED TO BIDDER AND IF ANYTHING CONTAINED WITHIN THIS CERTIFICATE CHANGES DURING THE TERM OF THE CONTRACT, BIDDER WILL NOTIFY THE PURCHASING DIVISION IN WRITING IMMEDIATELY.</p> <p>BIDDER: -----</p> <p>DATE: -----</p> <p>SIGNED: -----</p> <p>TITLE: -----</p> <p>* CHECK ANY COMBINATION OF PREFERENCE CONSIDERATION(S) IN EITHER "A" OR "B", OR BOTH "A" AND "B" WHICH YOU AR</p>						

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<p>ENTITLED TO RECEIVE. YOU MAY REQUEST UP TO THE MAXIMUM 5% PREFERENCE FOR BOTH "A" AND "B". (REV. 12/00)</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: 33</p> <p>RFQ. NO.: 707EC010</p> <p>BID OPENING DATE AND TIME</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID:</p> <p>-----</p>						

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CONTACT PERSON (PLEASE PRINT CLEARLY):						

***** THIS IS THE END OF RFQ 707EC010 ***** TOTAL:						_____

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 813-1-G

TRUCK MOUNTED HIGH VELOCITY SEWER CLEANER

1.0 PURPOSE

It is the purpose of these specifications to describe a Truck Mounted High Velocity Sewer Cleaner (hereinafter referred to as a "sewer cleaner" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

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

3.0 SPECIFICATIONS

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

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

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

3.2 MANDATORY SPECIFICATIONS

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

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

4.0 REPRESENTATIVE UNIT FOR TEST

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

4.1 CONDITION OF UNIT(S) UPON DELIVERY

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

4.2 DELIVERY

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

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 60 days. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms shall be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid. The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

A completed pilot model for inspection must be provided within 45 calendar days after the date of the purchase agreement by the successful vendor.

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

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

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

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

5.0 AWARD CRITERIA

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

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

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

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

model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2006 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

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

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

6.3 TRAINING:

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

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

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

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

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

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

6.5 WARRANTY AND SERVICE POLICY

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

A mandatory minimum two (2) year bumper to bumper basic warranty is required for this unit except for frame as stated in Section 8.4.

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

6.6 EVALUATION COMMITTEE REQUIREMENTS

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

6.7 UNSPECIFIED ACCESSORIES & FEATURES

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

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

7.0 SPECIFICATIONS OF THE QUOTED UNIT:

8.0 SPECIFICATIONS - CAB & CHASSIS

8.1 GVW plate rating: 37,000 Lbs.

8.2 Cab to axle dimension: Approximately 84"

8.3 Wheelbase: Approximately 170 inches

8.4 Frame: The manufacturer shall provide a frame that meets or exceeds all Federal requirements for G.V.W.R. specified that has an integral front frame extension with no frame cutouts to allow engine installation. Extension shall extend forward of the grille area a minimum of 12 inches. The frame shall conform to the following and shall have a minimum five (5) year warranty:

8.4.1 Frame Steel: 120,000 P.S.I. yield strength

8.4.2 R.B.M.: 2,100,000 Ins/Lb. Minimum

An integral frame and frame extension is preferred.

8.5 Cab: The cab to be the manufacturer's standard for model bid

8.5.1 Hood to be tilt hood and fenders either steel and/or fiberglass.

8.5.2 Unit to be equipped with cruise control feature or locking hand operated throttle.

8.5.3 Cab Door Locks, Both Doors

8.5.4 Dual Sun Visors

8.5.5 Arm Rests, Both Sides

8.5.6 Seats: Two (2) right hand and left hand fully adjustable high back with head rest, air ride, bucket seats, to be cloth covered or minimum of cloth insert in vinyl. Minimum of 12 inch clearance between seats.

- 8.5.6.1 Seat Belts: 3 point lap and shoulder type
- 8.5.7 Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing under the mats.
- 8.5.8 Turn Signals: Manufacturers heavy duty, self-canceling type with hazard warning switch.
- 8.5.9 Heater and Defroster: Fresh Air Type, Heaviest Duty
- 8.5.10 Windshield Wipers and Washers: Manufacturer's heaviest duty artic type with intermittent feature.
- 8.5.11 Instruments: Manufacturer's gauges with visual, audible, and programmable warning to inform driver when operating conditions are exceeded shall include:
 - 8.5.11.1 Voltmeter or Ammeter
 - 8.5.11.2 Engine RPM Tachometer
 - 8.5.11.3 Primary air pressure gauge with warning light or audible alarm
 - 8.5.11.4 Air filter to be manufacturers heaviest duty dual element type.
 - 8.5.11.5 Air Filter Restriction Indicator gauge(Dash Mounted)
 - 8.5.11.6 Engine Hourmeter (Controlled by engine operation, not by key switch).
 - 8.5.11.7 Fuel Gauge(s)
 - 8.5.11.8 Manufacturers engine cover or dash mounted extended two (2) cup drink holder
- 8.5.12 Rearview Mirrors: To be heated dual, West Coast Type, approximately 7" x 16", adjustable with convex spot mirror, stainless steel or aluminum housing and mounting brackets.
 - 8.5.12.1 Mirrors: Left side manual adjustable; right side power adjustable
- 8.5.13 Grab Handle: Right Hand and Left Hand Sides of Cab, Rear of Door Opening
- 8.5.14 Glass: To be manufacturers tinted safety glass; front, sides, and rear.
- 8.5.15 Radio: Manufacturers standard AM/FM stereo.

- 8.5.16 Air Conditioning: Manufacturer's fresh air type heaviest duty.
- 8.5.17 Manufacturer should provide for stationary grille or grille with cutout area to allow for front mounted pump for culvert cleaner.
- 8.5.18 Front mudflaps to be manufacturers standard for unit bid.
- 8.5.19 Emergency triangle warning kit, with hold down (KD 610-464S, KD Lamp Co. or equal) stowed (fastened) in the cab. (Check with DOH before mounting.)
- 8.5.20 Accessories not indicated above but are included in the manufacturer's standard cab shall be provided.
- 8.5.21 Successful vendor shall provide WVDOH with complete list of all filters required for normal maintenance on proposed unit.

8.6 Engine:

- 8.6.1 Engine manufacturer to make provisions for front mounted hydraulic pump to crankshaft pulley.
- 8.6.2 Diesel Engine - Shall be 250 HP minimum @ approximately 2200 R.P.M.
 - 8.6.2.1 Peak torque 800 approximate
 - 8.6.2.2 Torque rise 16% approximate
 - 8.6.2.3 Diesel fuel heater in fuel line system
 - 8.6.2.4 In engine block heater 1250 W., (approximate)
 - 8.6.2.5 A single vertical exhaust pipe with muffler that will meet all Federal noise abatement requirements. Exhaust to the passenger side of unit. Heat shield on vertical exhaust.
 - 8.6.2.6 Engine shall be equipped with exhaust brake, compression, compression/exhaust or exhaust.

8.7 Cooling System:

- 8.7.1 The cooling system to be capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation.

- 8.7.2 The system shall be filled with permanent type Dex-Cool or equal antifreeze rated to a -30°F minimum. Unit shall provide adequate temperature control in summer operations (utility hauling in 50°F to 95°F climatic temperatures) and winter operations (snowplowing and salt spreading in -30°F to +30°F climatic temperatures). Altitude that vehicle will operate in varies from a low elevation of 250' above sea level to a high elevation of 4700' above sea level with most operating occurring between 400' and 2600' above sea level.
- 8.7.3 The radiator should have four inches (4") square (minimum) opening (if required) to facilitate the installation of a crankshaft driven PTO drive shaft. The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft be a minimum of three inches (3") to insure adequate clearance for PTO drive shaft.
- 8.7.4 Radiator and heater hoses shall be Gates Blue Stripe or equal
- 8.8 Fuel Tanks:
- 8.8.1 Capacity: 80 U.S. gallons minimum shall meet FMVSS
- 8.8.2 Filler cap to be chain tethered
- 8.9 Electrical System:
- 8.9.1 Type: Twelve (12) volt negative ground system with manufacturer's radio interference suppression.
- 8.9.2 Batteries: (approximate ratings)
- 8.9.2.1 Reserve Capacity: 360 minutes (@ 80°F) -Fully charged (per battery)
- 8.9.2.2 Cold Crank AMPS: 1950 AMPS minimum
- 8.9.3 Alternator Capacity: 110 AMPS minimum brushless with internal regulator.
- 8.9.4 Lighting: Provisions shall be made available for all lighting (number, location, and color) to conform to the West Virginia Motor Vehicle Code.
- 8.9.5 Truck vendor may eliminate rear taillights but must provide minimum of eight (8) foot of wiring bundled at end of frame for body vendor hookup of taillights provided in sewer cleaner platform body.
- 8.9.5.1 Manufacturer shall provide body builder circuit interface capability with connection plug to be located at rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed to ground to provide splice free chassis wiring integrity.

- 8.9.5.2 Manufacturer shall provide body builder circuits – six (6) switches shall be located in the dash instrument panel with one (1) weather protected body builder connection box or module located at the rear under cab. This power module is to be six (6) channel capable, 20 amps per channel, 80 amp maximum output. The dash switches are to control the power module with LED backlighting.
- 8.10 Transmission/Clutch:
- 8.10.1 Manual: Spicer PS86-10V or Fuller RT8908LL. Transmission torque capacity shall exceed provided engine torque.
- 8.10.2 Clutch: Eaton Spicer, two plate ceramic 14 inch diameter, mechanical pull type control with kwik-adjust manual feature or equal (Solo not acceptable.)
- 8.11 Driveline should be: Spicer 1710 series driveline or equal with greasable main shaft
- 8.12 Rear Axle:
- 8.12.1 Rated Capacity: 23,000 Lbs. Single reduction shall include driver controlled main locking differential.
- 8.12.2 Rear Spring Capacity: 23,000 lbs. fitted with 4,500 lb. capacity multi leaf load stabilizer springs (or approved equal).
- 8.12.3 Ratio: Gear ratio to be determined by bidder; however, these vehicles to be capable of a top speed of 65 MPH.
- 8.12.4 Rear axle differential, transmission, and front wheel lubrication reservoirs shall be filled with synthetic type lubrication and provided with magnetic drain plugs where applicable
- 8.12.5 Unit to be equipped with manufacturers heavy duty rear shock absorbers
- 8.13 Front Axle:
- 8.13.1 Capacity: 14,000 lbs. minimum I-beam type
- 8.13.2 Front Spring Capacity: 14,000 lbs
- 8.13.3 Manufacturers heavy Duty Shock Absorbers
- 8.13.4 Front Wheel Oil Lubricated Wheel Seals to be provided. (Stemco or equal)

8.14 Brakes should be:

8.14.1 Type: Full Air with manufacturers ABS in compliance with the most current FMVSS requirements.

8.14.2 Compressor: Model TF550 Bendix Westinghouse or equal 13.2 CFM minimum.

8.14.3 Service Brake Size: (Approximate)

8.14.3.1 Front: 16.5" x 5"

8.14.3.2 Rear: 16.5" x 7"

8.14.4 Parking Brake: Spring set, air release actuating rear axle service brakes. Instrument panel control. 30/30 MGM or equivalent.

8.14.5 Air dryer with heater Bendix Westinghouse AD-9 or equal.

8.14.6 Manufacturer's standard air tanks for service brakes; auxiliary tank for parking brake.

8.14.7 Low air pressure warning light and buzzer

8.14.8 Brakes shall meet or exceed all current Federal and State FMVSS requirements.

8.14.9 Brake dust covers to be installed on all wheels.

8.15 Tires and Wheels:

8.15.1 Wheel, Front and Rear: 22.5 x 8.25, hub piloted steel disc type, to accommodate specified tire size.

8.15.2 Tires:

8.15.2.1 Front: 12R22.5H; highway tread, radial, tubeless-Load Range H, 16 ply

8.15.2.2 Rear: 11R22.5G; on/off highway lug tread design, radial, tubeless. Goodyear G-328, 14 ply or approved equal.

8.16 Manufacturer's standard power steering to be provided for front axle specified; Sheppard or Ross int

8.17 Unit shall include all other features considered as manufacturers standard equipment if not specifically addressed above.

8.18 Paint: (See enclosed diagram for color reference)
The unit should be painted as described:

8.18.1 Cab exterior and interior: Federal Standard White 595 A (No. 17875)

- 8.18.2 Grille: Manufacturer's standard grille paint similar to silver or aluminum in color. Grilles made from bright finish or bright plated material do not require painting.
- 8.18.3 Fuel tanks, steps, air tanks, and battery box to be non-corrosive coated. Wheels shall be top coat painted with TGIC Polyester Powder Paint MLD-82008 High Gloss Gray or equal applied over cathodic electron disposition gray primer or equal.
- 8.18.4 Manufacturer's standard plant procedures for cleaning, degreasing, preparing, priming, and painting are sufficient to meet the requirements for painting of cab (white). Cab will not be painted white over top another finish color.
- 8.18.5 The Department reserves the right to view larger paint samples after award of contract and the right to require subtle color changes. Such changes, if any, will only be used for selecting a suitable paint color to match the WVDOH logo.
- 8.18.6 In order to test the adhesive quality of the paint, the DOH may, at its option, require that the vendor measure adhesion by the criteria set forth in ASTM D3359-74, Method B. A rating of less than 4 on this test would be deemed unacceptable.
- 8.19 Vendor must certify that the unit offered will meet or exceed the "Occupational Safety and Health Act of 1970" and subsequent amendments.
- 8.20 Advertising: No visible decals or nameplates or painted on names representing the manufacturer or model number or trademark should appear on the exterior of the unit. Logos created through the stamping or casting process of manufacture are acceptable.
- 8.21 Preventive Maintenance and Operator's Training School
- 8.21.1 Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects Preventive Maintenance and Operator Training. The seminar should be held at the Equipment Division, Buckhannon, WV.
- 8.21.2 The successful vendor shall furnish all training aids; i.e. videos, projectors, etc. required in conducting the training.
- 8.21.3 In addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Training procedures to be used by the operators of this equipment, include such things as daily pre-start, inspection procedure, service schedule and routine maintenance required, safety precautions, etc.
- 8.21.4 The successful vendor shall conduct training of the completed unit.

Bidder shall attach a copy of the proposed program with his bid, state the time required to perform the program and briefly describe his program.

9.0 SEWER/CULVERT CLEANER

9.1 Water Tank:

- 9.1.1 Tank capacity shall be 1500 gallons of water
- 9.1.2 Tank to be welded/repairable construction of .500 inch, U.V. stabilized Duraprolene.
- 9.1.3 The baffle in the tank to be constructed of .375 inch Duraprolene. These baffles will reduce sloshing and distortion and will form no less than 16 interconnected compartments.
- 9.1.4 Tank bottom to be flat bottom type; pump intake shall be located two (2) inches from bottom to allow sediment to settle rather than entering and damaging pump
- 9.1.5 Tank will be equipped with a strainer approximately 20 mesh at top tank for elimination of foreign objects into tank.
- 9.1.6 Entire tank top shall be completely removable for safe access of personal entry during maintenance.
- 9.1.7 Duraprolene to be ultraviolet stabilized to prevent material breakdown
- 9.1.8 Tanks constructed of steel will not be acceptable
- 9.1.9 Tanks constructed of polypropylene will not be acceptable due to inadequate UV protection and lack of reparability
- 9.1.10 Tank filling shall be possible from both curbside and street side
- 9.1.11 Tank filling system and fill hose will be located between the cab and water tank of the unit with a fill point on both sides of the truck
- 9.1.12 Tank fill shall utilize a quick disconnect cam locking fitting for 2 1/2 inch fill hose
- 9.1.13 A water level indicator will be located at operators station
- 9.1.14 A water level sight gauge will be located on street side and on curbside
- 9.1.15 A four (4) inch air gap will be utilized between fill pipe and tank fill opening to eliminate siphoning potential and to meet all public health standards
- 9.1.16 There will be a shut off valve between the tank and 20-mesh "Y" strainer

9.1.17 Two (2) inch drain valves will be located at both curbside and street side

9.2 Water Pump:

9.2.1 Triplex positive displacement pump rated at and powered to produce minimum 65 GPM at 2,000 PSI

9.2.2 Water pump will be located in the rear compartment

9.2.3 Pump shall be fitted with factory set overload relief valve

9.2.4 The water pump shall be direct coupled to a hydraulic motor. Drive systems incorporating any type of flexible coupling or belt drive system are not deemed acceptable due to maintenance related issues.

9.2.5 Pump to be equipped with drain cocks for complete draining

9.3 Drive System:

9.3.1 The water pump will be driven by a hydraulic system, which is powered by the truck engine via a front engine crankshaft PTO. The PTO drives a shaft, which powers a hydrostatic transmission pump. This hydrostatic transmission pump is responsible for driving a rear mounted hydraulic motor, which drives the water pump. Also mounted to the hydrostatic pump is a hydraulic pump, which is responsible for relaying power to a rear mounted hydraulic motor that drives the hose reel.

9.3.2 The hydraulic oil reserve capacity will be at least 24 U.S. gallons with oil temperature indicator to be provided visible to operator. This unit will also be equipped with low hydraulic oil indicator lights located in the cab as well as at the operator's station to signal loss of hydraulic oil. A hydraulic oil cooler will be provided with hydraulic oil filter. Hydraulic filter shall be cartridge style and integral to the reservoir.

9.3.3 The hydraulic oil reservoir, water pump, and rear motor are to be mounted above the chassis frame rails in the enclosed compartment located at the rear of the water tank.

9.4 Water Piping System:

9.4.1 All piping systems subjected to high pressure shall use zinc chromate plated steel fittings with minimum burst pressure of four (4) times the system pressure. Hoses working pressure ratings shall exceed the maximum system pressure.

9.4.2 A strainer with a minimum of 40 mesh screen shall be installed in the suction line at a location accessible for cleaning.

9.4.3 All piping shall be installed to drain by gravity through suitable openings equipped with plug, drain cocks, or ball valves.

- 9.4.4 Pressure to cleaning nozzle shall be regulated by an overload relief valve.
- 9.4.5 To control water flow from water pump, a single lever control shall regulate direction of water either to hose reel or back to tank utilizing a high pressure valve assembly. This single lever control shall control a 3-way valve.
- 9.4.6 Shall have recirculation ability which allows for use of unit in sub-freezing temperatures.
- 9.4.7 Water delivery to hose shall pass through a single 90 degree swivel rotary coupling.
- 9.5 Rear Body:
 - 9.5.1 Rear body shall be designed for total enclosure of major components including the water pump, hydrostatic motor, hose reel and associated plumbing to sewer hose.
 - 9.5.2 Rear housing must be of a one-piece welded construction including sides and top to eliminate any corrosion as the result of bolt together joints and seams.
 - 9.5.3 Floor decking of rear body will be constructed of 11 gauge steel. Said flooring shall also be treated with a non-skid coating for maximum protection from slipping.
 - 9.5.4 Rear compartment to have three (3) aluminum roll up doors which incorporated a header/counter balance design made of anodized aluminum panels.
 - 9.5.5 Door panels will have no rollers or cables, and to resist rust and be maintenance free. Hinged open doors will not be accepted.
 - 9.5.6 Doors to have stainless steel lockable and keyed alike heavy duty handles.
 - 9.5.7 Door seals should prevent dust, dirt, and moisture from entry of compartment.
 - 9.5.8 The rear roll up door to be equipped with an automatic switch which will not allow hydraulic extension of hose reel unless door is completely open.
 - 9.5.9 Four (4) aluminum tool boxes shall be installed in front of and behind the truck's rear axle on both sides of body. The tool boxes will be protected from the effects of water and road dust by a thick automotive "bulb type" neoprene seal.
 - 9.5.10 A heavy duty handle (locking style) will be provided on tool boxes.
 - 9.5.11 Skirting will be made of 11 gauge steel extending full height of tool boxes with cut outs for rear wheels shall be included.
 - 9.5.12 Unit will be mounted on base frame consisting of 2 inch x 6 inch tubing.

- 9.5.13 Deck assembly will be solid at rear and spring mounted under the tank to allow the jetter deck to fully support the tanks while allowing the truck chassis rails to flex.
- 9.5.14 Stop, running, and directional lights will comply with ICC regulations.
- 9.5.14.1 Weather/shock resistant lights LED type with average amp draw between .045 – .72. Grote/Truck Light or equal. All connections to have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration.
- 9.5.14.2 All marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral reflector mounted in rubber base.
- 9.5.14.3 All ground wires to be attached with plated steel fasteners, tack weld not allowed.
- 9.5.14.4 Rear lights to be shock mounted, recessed oval stop, tail, turn, and recessed oval back up lights to be mounted in back. Strobe lights (Trucklite Part #60360Y or equal) to be marked and switched from dash board location.
- 9.5.14.5 Center rear I.D. lights three (3)
- 9.5.14.6 Two (2) amber oval LED strobe lights (Trucklite Part #60360Y or equal) to be mounted at the front corners of the sewer cleaner platform, and two (2) amber oval LED strobe lights (Trucklite Part #60360Y or equal) to be mounted at each outside front corner of the sewer cleaner platform. Strobe lights to be marked and switched at dash board location.
- 9.5.14.7 Two (2) oval amber LED strobe lights mounted at rear right and left sides and to be switched in combination with front sewer cleaner platform strobe. (PSE amber, Model oulxdsih or equal)
- 9.6 Rotating Reel:
- 9.6.1 Unit shall be equipped with a single hose reel. The hose reel shall be constructed of 1/4 inch steel, designed to withstand maximum working pressure without distortion.
- 9.6.2 The hose reel shall have a capacity of 750 feet of one (1) inch sewer cleaning hose.
- 9.6.3 Reel flanges to be minimum of 1 1/2 inch wide and designed to prevent hose damage.
- 9.6.4 The hose reel sides will be reinforced with heavy duty side supports to eliminate damage.
- 9.6.5 The sewer hose will be attached to the reel on the inside to facilitate replacement of hose.

- 9.6.6 The hose reel assembly shall be mounted in the rear/center of the rear compartment.
 - 9.6.7 The hose reel to have the ability to extend out from the rear compartment via a hydraulically powered cylinder.
 - 9.6.8 The cylinder shall extend the hose reel 48 inches from the fully retracted position in the rear compartment after the roll up door has been fully opened.
 - 9.6.9 To provide direct alignment to the manholes, the hose reel shall rotate 190 degrees when fully extended in the operating position. Direct alignment minimizes hose wear and damage.
 - 9.6.10 The hose reel mount assembly shall be supported by a ball bearing allowing smooth trouble free operation.
 - 9.6.11 The hose reel shall rotate on a heavy duty vertical thrust bearing. Hose reels relying on sliding contact or other wear surfaces are not acceptable.
 - 9.6.12 The hose reel to lock into position using a spring loaded safety pin every two (2) inch intervals.
- 9.7 Hose Reel Drive:
- 9.7.1 The hose reel shall be chain driven by hydraulic power in both directions, either with or without the water pump in operation. The hydraulic drive shall have sufficient power to retract the hose when fully extended into the sewer with the cleaning nozzle in operation.
 - 9.7.2 A hydraulic pump rated a 0-8 GPM at 2,000 PSI will power the hose reel drive. A hydraulic motor with chain drive and sprocket capable of operating in both directions will be furnished. The hydraulic motor and chain must be adjustable.
 - 9.7.3 The hydraulic drive for the reel will be furnished with an overload relief valve.
- 9.8 Sewer Hose:
- 9.8.1 Unit to be supplied with a multi-purpose hose capable of cleaning service drains, culverts, and other open conducts.
 - 9.8.2 Hose shall be one (1) inch ID approximately 500 feet.
 - 9.8.3 Operating pressure of hose to be 2,500 PSI and a minimum burst pressure of 6,250 PSI.

9.9 Hand Gun:

9.9.1 The high pressure handgun piping shall be provided as standard with quick-disconnect fitting located at the control panel and 25 feet of 1/2 inch HP hose with fittings.

9.9.2 High pressure handgun circuit shall utilize an adjustable relief valve capable of 500 PSI capacity.

9.9.3 The high pressure handgun will be adjustable and repairable.

9.10 Control Panel:

9.10.1 The jetter control panel will be at the rear of the truck on the curbside of the hose reel. All controls shall be mounted in a weather tight NEMA 4 control panel

9.10.2 Control panel shall include the following:

9.10.2.1 Throttle (locking)

9.10.2.2 Low oil warning light (in cab as well)

9.10.2.3 Variable reel speed control

9.10.2.4 Forward/reverse hose reel control

9.10.2.5 Control panel light

9.10.2.6 Low water warning light

9.10.2.7 Water level indicator (4 light)

9.10.2.8 Tachometer

9.10.2.9 Hour meter

9.10.2.10 Water pressure gauge

9.10.2.11 Pump power control

9.10.2.12 Quick disconnect fitting for wash down gun

9.11 Accessories:

- 9.11.1 25 foot fill hose
- 9.11.2 Nozzle extension
- 9.11.3 Tri-point (chisel) nozzle with replaceable inserts
- 9.11.4 HW-70 (high flow) nozzle with replaceable insets
- 9.11.5 Little Thunder Nozzle
- 9.11.6 Venturi Pump and hoses for filling water tank from streams
- 9.11.7 Hose guide with rope
- 9.11.8 Upstream pulley guide
- 9.11.9 Wash down gun with 25 feet of 1/2 inch hose with quick disconnect
- 9.11.10 Heavy duty rear bumper with hitch receiver
- 9.11.11 Mud flaps
- 9.11.12 Arrow board, rear mounted
- 9.11.13 Operator's and parts manuals

9.12 Paint:

- 9.12.1 Before painting, all metal shall be cleaned and etched with phosphoric material to insure permanent bond of primer and paint. The entire unit will be painted white. (Federal Standard White 595A No. 17875).
- 9.12.2 All components of the unit whether purchased or manufactured shall be both primed and painted prior to assembly in order to assure maximum resistance to corrosion. Painting after the assembly process is not acceptable.
- 9.12.3 The unit shall have the frame painted black and the hose reel and shroud assemblies to be painted per the customers color specification.
- 9.12.4 Unit shall not be painted white over top another finish color.

NOTE: VENDORS SHOULD TYPE THE BIDDER'S EVALUATION REPORT

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 813-1-G

TRUCK MOUNTED HIGH VELOCITY SEWER CLEANER

NOTE TO BIDDER: Procurement Specification No. 813-1-G, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid.
FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: _____

Bidder's Name: _____

Address: _____

Telephone Number: _____

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

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

X4.2 DELIVERY:

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

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

X5.0 AWARD CRITERIA:

- X5.1 Prices for unit in quantities of 1-10 _____ per unit
- 11-20 _____ per unit
- 21 and over _____ per unit

X6.0 SPECIFICATIONS - GENERAL

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

Is descriptive literature, fully describing proposed unit attached to your bid? _____ YES _____ NO

If not, why? _____

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

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

X6.2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER=S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVD0H.

DESCRIPTION: _____ MAKE: _____

MODEL: _____ YEAR: _____ PURCHASE AMOUNT: _____

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

HORSEPOWER: _____ CYLINDER: _____ ENGINE SERIAL: _____

COOLING SYSTEM CAPACITY: _____

BELTS: DESCRIPTION: _____ PART NUMBERS: _____

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

TIRES: FRONT MAKE & SIZE: _____

REAR MAKE & SIZE: _____

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

VENDOR CONTACT PERSON: _____ PHONE: _____

PARTS:

BATTERY MAKE: _____ MODEL: _____ CCA: _____

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

SPARK PLUGS OR FUEL INJECTORS MAKE: _____ PART # _____

FUEL PUMP OR INJECTION PUMP MAKE: _____ MODEL: _____

ALTERNATOR MAKE: _____ PART #: _____

STARTER MAKE: _____ PART #: _____

TURBO CHARGER MAKE: _____ PART #: _____

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

HYDRAULIC PUMP MAKE: _____ MODEL: _____

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

X6.3 TRAINING:

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

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

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

If NO, explain time frame _____

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

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

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

X6.5 WARRANTY AND SERVICE POLICY

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

Is warranty literature attached? _____ YES _____ NO

Is a minimum two (2) year bumper to bumper basic warranty included? _____ YES _____ NO
Describe:

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

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

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

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.

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

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

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

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

- A. Shop Rate \$ _____ per mechanic hour

- B. Travel Time Charge \$ _____ per mechanic hour
(Specify if one-way) _____; port to port _____

- C. Mileage Charge \$ _____ per vehicle mile
(Specify if one-way) _____; port to port _____

- D. Field Mechanic Rate \$ _____ per mechanic hour

- E. Specify period of time that prices are in effect: _____

- F. Surcharge for miscellaneous items: _____%

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: _____ Model: _____

X8.1 GVW plate rating: _____ lbs.

X8.2 Cab to axle dimension: _____ inches

X8.3 Wheelbase: _____ inches

X8.4 Frame: The manufacturer shall provide a frame that meets or exceeds all Federal requirements for GVWR specified that has an integral front frame extension with no frame cutouts to allow engine installation. _____ YES _____ NO

Extension extends forward of the grill area _____ inches

Warranty on the frame: _____ years

- X8.4.1 Frame Steel: _____ PSI
- X8.4.2 R.B.M.: _____ Ins./Lbs.
- Is there an integral frame and frame extension _____ YES _____ NO
- X8.5 Cab: Is the cab manufacturer's standard for model bid _____ YES _____ NO
- X8.5.1 Is hood tilt hood and fenders steel and/or fiberglass _____ YES _____ NO
- X8.5.2 Is unit equipped with cruise control feature _____ YES _____ NO
OR
locking hand operated throttle _____ YES _____ NO
- X8.5.3 Cab door locks, both doors _____ YES _____ NO
- X8.5.4 Dual sun visors _____ YES _____ NO
- X8.5.5 Arm rests, both sides _____ YES _____ NO
- X8.5.6 Seats: Two (2) right hand and left hand fully adjustable high back with head rest, air ride, bucket seats, to be cloth covered or minimum of cloth insert in vinyl. _____ YES _____ NO
- Minimum of 12 inch clearance between seats _____ YES _____ NO
- X8.5.6.1 Seat Belts: 3 point lap and shoulder type _____ YES _____ NO
- X8.5.7 Floor Mats: Rubber floor mats throughout cab area with non-absorbent backing under the mats _____ YES _____ NO
- X8.5.8 Turn Signals: Manufacturers heavy duty, self-canceling type with hazard warning switch _____ YES _____ NO
- X8.5.9 Heater and defroster: Fresh air type, heaviest duty _____ YES _____ NO
- X8.5.10 Windshield Wipers and Washers: Manufacturer's heaviest duty available with intermittent feature _____ YES _____ NO
- X8.5.11 Instruments: Manufacturer's gauges with visual, audible and programmable warning to inform operator when operating conditions are exceeded provided _____ YES _____ NO
- X8.5.11.1 Voltmeter or Ammeter _____ YES _____ NO
- X8.5.11.2 Engine RPM tachometer _____ YES _____ NO

X8.5.11.3 Primary air pressure gauge with warning light or audible alarm _____ YES _____ NO

X8.5.11.4 Air filter manufacturers heaviest duty dual element type _____ YES _____ NO

X8.5.11.5 Air filter restriction indicator gauge (dash mounted) _____ YES _____ NO

X8.5.11.6 Engine hourmeter (controlled by engine operation, not by key switch) _____ YES _____ NO

X8.5.11.7 Fuel gauge(s) _____ YES _____ NO

X8.5.11.8 Manufacturers engine cover or dash mounted extended two (2) cup drink holder
_____ YES _____ NO

X8.5.12 Rearview Mirrors: Heated dual, west coast type, approximately 7" x 16", adjustable with convex spot mirror, stainless steel or aluminum housing and mounting brackets _____ YES _____ NO

X8.5.12.1 Mirrors: Left side manual adjustable; right side power adjustable _____ YES _____ NO

X8.5.13 Grab Handle: Right hand and left hand sides of cab, rear of door opening _____ YES _____ NO

X8.5.14 Glass: Manufacturers tinted safety glass; front, sides, and rear _____ YES _____ NO

X8.5.15 Radio: Manufacturers standard AM/FM stereo _____ YES _____ NO

X8.5.16 Air conditioning: Manufacturer's fresh air type heaviest duty _____ YES _____ NO

X8.5.17 Manufacturer provides for stationary grille or grille with cutout area to allow for front mounted pump for culvert cleaner
_____ YES _____ NO

X8.5.18 Front mudflaps manufacturers standard for unit bid _____ YES _____ NO

X8.5.19 Emergency triangle warning kit, with hold down fastened in the cab _____ YES _____ NO
Mfr. and Part No. _____

X8.5.20 Accessories not addressed but included:

X8.5.21 Will you provide complete list of all filters required for normal maintenance _____ YES _____ NO

X8.6 Engine:

X8.6.1 Has engine manufacturer made provisions for front mounted hydraulic pump to crankshaft pulley
 _____ YES _____ NO

X8.6.2 Diesel engine

Manufacturer: _____ Model: _____

HP: _____ at _____ RPM

X8.6.2.1 Peak torque: _____

X8.6.2.2 Torque rise: _____ %

X8.6.2.3 Diesel fuel heater in fuel line system _____ YES _____ NO

X8.6.2.4 In engine block heater _____ YES _____ NO _____ watt

X8.6.2.5 Does the single vertical exhaust pipe with muffler meet all Federal noise abatement requirements
 _____ YES _____ NO

Is exhaust to the passenger side of unit _____ YES _____ NO

Is there a heat shield on vertical exhaust _____ YES _____ NO

X8.6.2.6 Is engine equipped with exhaust brake, compression, compression/exhaust, or exhaust
 _____ YES _____ NO

Manufacturer: _____

X8.7 Cooling System:

X8.7.1 Is the cooling system capable of maintaining engine temperature within the manufacturer's recommended range during continuous operation
 _____ YES _____ NO

X8.7.2 Is the system filled with permanent type Dex-Cool or equal antifreeze rated to a -30°F
 _____ YES _____ NO

Does unit provide adequate temperature control in summer operations (utility hauling in 50°F to 95°F climatic temperatures) and winter operations (snowplowing and salt spreading in -30°F to +30°F climatic temperatures).
 _____ YES _____ NO

Does the vehicle operate in various altitudes from a low elevation of 250 ft. above sea level to a high elevation of 4700 ft. above sea level with most operating occurring between 400 ft. and 2600 ft. above sea level
 _____ YES _____ NO

X8.7.3 Does the radiator have four (4) inch square opening to facilitate the installation of a crankshaft driven PTO drive shaft _____ YES _____ NO

The distance between the extreme top of the radiator fan blade and the centerline of the crankshaft is a minimum of three (3) inches to insure adequate clearance for PTO drive shaft
_____ YES _____ NO

X8.7.4 Radiator and heater hoses: _____

X8.8 Fuel Tanks:

X8.8.1 Capacity: _____ U.S. gallons Meet FMVSS _____ YES _____ NO

X8.8.2 Is filler cap chain tethered _____ YES _____ NO

X8.9 Electrical System:

X8.9.1 Type: 12 V negative ground system with manufacturer's radio interference suppression
_____ YES _____ NO

X8.9.2 Batteries:

X8.9.2.1 Reserve Capacity: _____ minutes @ _____ °F Fully charges _____ YES _____ NO

X8.9.2.2 Cold Crank AMPS: _____ AMPS

X8.9.3 Alternator Capacity: _____ AMPS brushless with internal regulator

X8.9.4 Lighting: Are provisions made available for all lighting (number, location, and color) to conform to the West Virginia Motor Vehicle Code
_____ YES _____ NO

X8.9.5 Have you eliminated rear taillights
_____ YES _____ NO

Wiring bundled at end of frame for body vendor hookup of taillights provided in sewer cleaner platform: _____ feet

X8.9.5.1 Has manufacturer provided body builder circuit interface capability with connection plug located at rear of frame for body builder connection to stop, tail, and marker light circuits, ignition controlled auxiliary feed to ground to provide splice free chassis wiring integrity
_____ YES _____ NO

X8.9.5.2 Will manufacturer provide body builder circuits – six (6) switches located in the dash instrument panel with one (1) weather protected body builder connection box or module located at the rear under cab
_____ YES _____ NO

Is the power module six (6) channel capable, 20 amps per channel, 80 amp maximum output
_____ YES _____ NO

Do the dash switches control the power module with LED backlighting _____ YES _____ NO

X8.10 Transmission/Clutch:

X8.10.1 Manual:

Manufacturer: _____ Model: _____

Does transmission torque capacity exceed provided engine torque _____ YES _____ NO

X8.10.2 Clutch:

Manufacturer: _____ Model: _____

Two plate ceramic 14 inch diameter, mechanical pull type control with kwik-adjust manual feature
_____ YES _____ NO

X8.11 Driveline

Manufacturer: _____ Model: _____

Greaseable main shaft _____ YES _____ NO

X8.12 Rear Axle:

X8.12.1 Rated Capacity: _____ lbs. single reduction includes driver controlled main locking differential
_____ YES _____ NOX8.12.2 Rear Spring Capacity: _____ lbs. fitted with 4,500 lb. capacity multi leaf load stabilizer springs
_____ YES _____ NO

Or approved equal: _____

X8.12.3 Ratio:

Gear ratio: _____ Capable of a top speed of 65 MPH _____ YES _____ NO

X8.12.4 Is rear axle differential, transmission, and front wheel lubrication reservoirs filled with synthetic type lubrication and provided with magnetic drain plugs where applicable _____ YES _____ NO

X8.12.5 Is unit equipped with manufacturers heavy duty rear shock absorbers _____ YES _____ NO

X8.13 Front Axle:

X8.13.1 Capacity: _____ lbs. I-beam type _____ YES _____ NO

X8.13.2 Front spring capacity: _____ lbs.

X8.13.3 Manufacturers heavy duty shock absorbers _____ YES _____ NO

X8.13.4 Is front wheel oil lubricated wheel seals provided _____ YES _____ NO

X8.14 Brakes:

- X8.14.1 Are they full air with manufacturers ABS in compliance with the most current FMVSS requirements _____ YES _____ NO
- X8.14.2 Compressor: Manufacturer: _____ Model: _____ CFM
- X8.14.3 Service Brake Size:
- X8.14.3.1 Front: _____
- X8.14.3.2 Rear: _____
- X8.14.4 Parking Brake:
Are they spring set, air release actuating rear axle service brakes _____ YES _____ NO
Instrument panel control _____ YES _____ NO _____ MGM
- X8.14.5 Air dryer with heater: Manufacturer _____ Model _____
- X8.14.6 Are they manufacturer's standard air tanks for service brakes _____ YES _____ NO
Auxiliary tank for parking brake _____ YES _____ NO
- X8.14.7 Low air pressure warning light and buzzer _____ YES _____ NO
- X8.14.8 Do brakes meet or exceed all current Federal and State FMVSS requirement _____ YES _____ NO
- X8.14.9 Are brake dust covers installed on all wheels _____ YES _____ NO

X8.15 Tires and Wheels:

- X8.15.1 Wheels, Front and Rear: _____
Hub piloted steel disc type _____ YES _____ NO
- X8.15.2 Tires:
- X8.15.2.1 Front: _____
- X8.15.2.2 Rear: _____
- X8.16 Is manufacturers standard power steering provided for front axle specified _____ YES _____ NO
Manufacturer: _____

X8.17 Other Standard Features

List other standard features offered but not specifically addressed above:

X8.18 Paint

Describe proposed method of painting:

X8.19 Does unit offered meet or exceed "Occupational Safety and Health Act of 1970" YES NO

X8.20 Does unit conform to the advertising guidelines

Describe: _____

X8.21 Preventive Maintenance

X8.21.1 Will a preventative maintenance and operator's training seminar be provided?

YES NO

X8.21.2 Will you furnish all training aids; i.e. videos, projectors, etc. required in conducting the training

YES NO

X8.21.3 Will booklets and pamphlets be furnished to be used by the operators YES NO

X8.21.4 If successful vendor, will you conduct training on the completed unit YES NO

X9.0 SEWER/CULVERT CLEANER

Bidder's Name: _____

Address: _____

Telephone Number: _____

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

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

Manufacturer, model, series, and date of manufacture of proposed unit:

Is descriptive literature, fully describing proposed unit attached to your bid? _____ YES _____ NO

If not, why? _____

X9.1 Water Tank:

X9.1.1 Tank capacity: _____ gallons of water

X9.1.2 Is tank welded/repairable construction of .500 inch, U.V. stabilized Duraprolene
_____ YES _____ NO

X9.1.3 Is the baffle in the tank constructed of .375 inch Duraprolene _____ YES _____ NO

Will these baffles reduce sloshing and distortion and form no less than 16 interconnected
Compartments _____ YES _____ NO

X9.1.4 Is the tank bottom flat bottom type _____ YES _____ NO

Is the pump intake located two (2) inches from bottom to allow sediment to settle rather than
entering and damaging pump _____ YES _____ NOX9.1.5 Tank is equipped with strainer _____ mesh at top tank for elimination of foreign objects into
Tank _____ YES _____ NOX9.1.6 Is entire tank top completely removable for safe access of personal entry during maintenance
_____ YES _____ NO

X9.1.7 Is Duraprolene ultraviolet stabilized to prevent material breakdown _____ YES _____ NO

X9.1.8 Is tank constructed of steel _____ YES _____ NO

X9.1.9 Is tank constructed of polypropylene _____ YES _____ NO

- X9.1.10 Is tank filling possible from both curbside and street side _____ YES _____ NO
- X9.1.11 Is tank filling system and fill hose located between cab and water tank of the unit with a fill point on both sides of truck _____ YES _____ NO
- X9.1.12 Does tank fill utilize a quick disconnect cam locking fitting for 2 1/2 inch fill hose _____ YES _____ NO
- X9.1.13 Is a water level indicator located at operators station _____ YES _____ NO
- X9.1.14 Is a water level sight gauge located on street side and on curbside _____ YES _____ NO
- X9.1.15 Is a four (4) inch air gap utilized between fill pipe and tank fill opening to eliminate siphoning potential and to meet all public health standards _____ YES _____ NO
- X9.1.16 Is there a shut off valve between the tank and 20 mesh "Y" strainer _____ YES _____ NO
- X9.1.17 Are two (2) inch drain valves located at curbside and street side _____ YES _____ NO
- X9.2 Water Pump:
- X9.2.1 Triplex positive displacement pump rated at and powered to produce _____ GPM at _____ PSI
- X9.2.2 Is water pump located in the rear compartment _____ YES _____ NO
- X9.2.3 Is pump fitted with factory set overload relief valve _____ YES _____ NO
- X9.2.4 Is water pump direct coupled to a hydraulic motor _____ YES _____ NO
- X9.2.5 Is pump equipped with drain cocks for complete draining _____ YES _____ NO
- X9.3 Drive System:
- X9.3.1 Is the water pump driven by a hydraulic system, which is powered by truck engine via a front engine crankshaft PTO _____ YES _____ NO
- Does the PTO drive a shaft, which powers a hydrostatic transmission pump _____ YES _____ NO
- Is the hydrostatic transmission pump responsible for driving a rear mounted hydraulic motor, which drives the water pump _____ YES _____ NO
- Is there a hydraulic pump to relay power to a rear mounted hydraulic motor that drives the hose Reel _____ YES _____ NO

X9.3.2 Hydraulic oil reserve capacity _____ US gallons with oil temperature indicator provided visible to operator _____ YES _____ NO

Does unit have low hydraulic oil indicator lights in cab as well as at operators station to signal loss of hydraulic oil _____ YES _____ NO

Is a hydraulic oil cooler provided with hydraulic oil filter _____ YES _____ NO

Is hydraulic filter cartridge style and integral to reservoir _____ YES _____ NO

X9.3.3 Are hydraulic oil reservoir, water pump, and rear motor mounted above the chassis frame rails in the enclosed compartment located at the rear of the water tank _____ YES _____ NO

X9.4 Water Piping System:

X9.4.1 All piping systems subjected to high pressure uses zinc chromate plated steel fittings with burst pressure of four (4) times the system pressure _____ YES _____ NO

Do hoses working pressure ratings exceed the maximum system pressure _____ YES _____ NO

X9.4.2 A strainer with _____ mesh screen is installed in the suction line at a location accessible for cleaning _____ YES _____ NO

X9.4.3 All piping is installed to drain by gravity through suitable openings equipped with plug, drain cocks, or ball valves _____ YES _____ NO

X9.4.4 Is pressure to cleaning nozzle regulated by an overload relief valve _____ YES _____ NO

X9.4.5 To control water flow from water pump, does a single lever control regulate direction of water either to hose reel or back to tank utilizing a high pressure valve assembly _____ YES _____ NO

Does this single lever control control a 3-way valve _____ YES _____ NO

X9.4.6 Does it have recirculation ability which allows for use of unit in sub-freezing temperatures _____ YES _____ NO

X9.4.7 Does water delivery to hose pass through a single 90 degree swivel rotary coupling _____ YES _____ NO

X9.5 Rear Body:

X9.5.1 Is rear body designed for total enclosure of major components including the water pump, hydrostatic motor, hose reel and associated plumbing to sewer hose _____ YES _____ NO

X9.5.2 Is rear housing of a one-piece welded construction including sides and top to eliminate any corrosion as the result of bolt together joints and seams. _____ YES _____ NO

- X9.5.3 Is floor decking of rear body constructed of 11 gauge steel. YES NO
 Is flooring treated with a non-skid coating for maximum protection from slipping YES NO
- X9.5.4 Does rear compartment have three (3) aluminum roll up doors which incorporate a header/counter balance design made of anodized aluminum panels YES NO
- X9.5.5 Do door panels have no rollers or cables, resist rust and maintenance free YES NO
 Are they hinged open doors YES NO
- X9.5.6 Do doors have stainless steel lockable and keyed alike heavy duty handles YES NO
- X9.5.7 Do door seals prevent dust, dirt, and moisture from entry of compartment YES NO
- X9.5.8 Is the rear roll up door equipped with an automatic switch which will not allow hydraulic extension of hose reel unless door is completely open YES NO
- X9.5.9 Are four (4) aluminum tool boxes installed in front of and behind the truck's rear axle on both sides of body YES NO
 Are the tool boxes protected from the effects of water and road dust by a thick automotive "bulb type" neoprene seal YES NO
- X9.5.10 Is a heavy duty handle (locking style) provided on tool boxes YES NO
- X9.5.11 Is skirting made of 11 gauge steel extending full height of tool boxes with cut outs for rear wheels YES NO
- X9.5.12 Is unit mounted on base frame consisting of 2 inch x 6 inch tubing YES NO
- X9.5.13 Is deck assembly solid at rear and spring mounted under the tank to allow the jetter deck to fully support the tanks while allowing the truck chassis rails to flex YES NO
- X9.5.14 Do stop, running, and directional lights comply with ICC regulations YES NO
- X9.5.14.1 Is lighting weather/shock resistant lights LED type with average amp draw between .045-.72 YES NO Manufacturer: _____
 Do all connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration YES NO
- X9.5.14.2 Are all marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral reflector mounted in rubber base YES NO

- X9.5.14.3 Are all ground wires attached with plated steel fasteners YES NO
- X9.5.14.4 Are rear lights shock mounted, recessed oval stop, tail, turn and recessed oval back up lights mounted in back YES NO
 Manufacturer and Model: _____
- Are strobe lights marked and switched from dash board location YES NO
- X9.5.14.5 Are there three (3) center rear I.D. lights YES NO
- X9.5.14.6 Are there two (2) amber oval LED strobe lights mounted at the front corners of the sewer cleaner platform and two (2) amber oval LED strobe lights mounted at each outside front corner of the sewer cleaner platform YES NO
 Manufacturer and Model: _____
- Are strobe lights marked and switched at dash board location YES NO
- X9.5.14.7 Are there two (2) oval amber LED strobe lights mounted at rear right and left sides and switched in combination with front sewer cleaner platform strobe YES NO
 Manufacturer and Model: _____
- X9.6 Rotating Reel:
- X9.6.1 Is unit equipped with a single hose reel YES NO
- Is the hose reel constructed of 1/4 inch steel, designed to withstand maximum working pressure without distortion YES NO
- X9.6.2 Does the hose reel have a capacity of 750 feet of one (1) inch sewer cleaning hose YES NO
- X9.6.3 Reel flanges _____ inch wide and designed to prevent hose damage YES NO
- X9.6.4 Are the hose reel sides reinforced with heavy duty side supports to eliminate damage YES NO
- X9.6.5 Is the sewer hose attached to the reel on the inside to facilitate replacement of hose YES NO
- X9.6.6 Is the hose reel assembly mounted in the rear/center of the rear compartment YES NO
- X9.6.7 Does the hose reel have the ability to extend out from the rear compartment via a hydraulically powered cylinder YES NO
- X9.6.8 Does the cylinder extend the hose reel 48 inches from the fully retracted position in the rear compartment after the roll up door has been fully opened YES NO

- X9.6.9 Direct alignment to the manholes _____ YES _____ NO
Does the hose reel rotate 190 degrees when fully extended in the operating position. _____ YES _____ NO
- X9.6.10 Is the hose reel mount assembly supported by a ball bearing allowing smooth trouble free operation _____ YES _____ NO
- X9.6.11 Does the hose reel rotate on a heavy duty vertical thrust bearing _____ YES _____ NO
Do hose reels rely on sliding contact or other wear surfaces _____ YES _____ NO
- X9.6.12 Does the hose reel lock into position using a spring loaded safety pin every two (2) inch intervals _____ YES _____ NO
- X9.7 Hose Reel Drive:
- X9.7.1 Is the hose reel chain driven by hydraulic power in both directions, either with or without the water pump in operation _____ YES _____ NO
Does the hydraulic drive have sufficient power to retract the hose when fully extended into the sewer with the cleaning nozzle in operation _____ YES _____ NO
- X9.7.2 Hydraulic pump rating _____ GPM at _____ PSI powers the hose reel drive _____ YES _____ NO
Is a hydraulic motor with chain drive and sprocket provided that is capable of operating in both Directions _____ YES _____ NO
Are the hydraulic motor and chain adjustable _____ YES _____ NO
- X9.7.3 Is the hydraulic drive for the reel with an overload relief valve provided _____ YES _____ NO
- X9.8 Sewer Hose:
- X9.8.1 Does unit have a multi-purpose hose capable of cleaning service drains, culverts, and other open conducts _____ YES _____ NO
- X9.8.2 Is hose one (1) inch ID _____ YES _____ NO and _____ feet
- X9.8.3 Operating pressure of hose _____ PSI and burst pressure of _____ PSI
- X9.9 Hand Gun:
- X9.9.1 Is the high pressure handgun piping provided as a standard with quick-disconnect fitting located at the control panel and 25 feet of 1/2 inch HP hose with fittings _____ YES _____ NO
- X9.9.2 Does a high pressure handgun circuit utilize an adjustable relief valve capable of 500 PSI capacity _____ YES _____ NO

- X9.9.3 Is the high pressure handgun adjustable and repairable _____ YES _____ NO
- X9.10 Control Panel:
- X9.10.1 Is the jetter control panel at the rear of the truck on the curbside of the hose reel.
_____ YES _____ NO
- Are all controls mounted in a weather tight NEMA 4 control panel _____ YES _____ NO
- X9.10.2 Does the control include the following:
- X9.10.2.1 Throttle (locking) _____ YES _____ NO
- X9.10.2.2 Low oil warning light (in cab as well) _____ YES _____ NO
- X9.10.2.3 Variable reel speed control _____ YES _____ NO
- X9.10.2.4 Forward/reverse hose reel control _____ YES _____ NO
- X9.10.2.5 Control panel light _____ YES _____ NO
- X9.10.2.6 Low water warning light _____ YES _____ NO
- X9.10.2.7 Water level indicator (4 light) _____ YES _____ NO
- X9.10.2.8 Tachometer _____ YES _____ NO
- X9.10.2.9 Hour meter _____ YES _____ NO
- X9.10.2.10 Water pressure gauge _____ YES _____ NO
- X9.10.2.11 Pump power control _____ YES _____ NO
- X9.10.2.12 Quick disconnect fitting for wash down gun _____ YES _____ NO
- X9.11 Are the following accessories included:
- X9.11.1 25 foot fill hose _____ YES _____ NO
- X9.11.2 Nozzle extension _____ YES _____ NO
- X9.11.3 Tri-point (chisel) nozzle with replaceable inserts _____ YES _____ NO
- X9.11.4 HW-70 (high flow) nozzle with replaceable insets _____ YES _____ NO
- X9.11.5 Little Thunder Nozzle _____ YES _____ NO
- X9.11.6 Venturi Pump and hoses for filling water tank from streams _____ YES _____ NO

- X9.11.7 Hose guide with rope _____ YES _____ NO
- X9.11.8 Upstream pulley guide _____ YES _____ NO
- X9.11.9 Wash down gun with 25 feet of 1/2 inch hose with quick disconnect _____ YES _____ NO
- X9.11.10 Heavy duty rear bumper with hitch receiver _____ YES _____ NO
- X9.11.11 Mud flaps _____ YES _____ NO
- X9.11.12 Arrow board, rear mounted _____ YES _____ NO
- X9.11.13 Operator's and parts manuals _____ YES _____ NO

X9.12 Paint: (Describe proposed method of painting and colors)

A F F I D A V I T

West Virginia Code §5A-3-10a states:

No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owned is an amount greater than one thousand dollars in the aggregate.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

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

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

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

LICENSING:

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

CONFIDENTIALITY:

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

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

Vendor's Name: _____

Authorized Signature: _____ Date: _____