

Prepared For:

WV Dept. of Transportation
Donald Weese
P. O. Box 610
Buckhannon, WV 26201-
(304)348 - 1750
Reference ID: N/A

Presented By:

BWAB INTERNATIONAL, LLC
Robert M Cochran
408 GOFF MOUNTAIN ROAD
CHARLESTON WV 25313 -
(304)776-5600

Thank you for the opportunity to provide you with the following quotation on a new International truck with ACE Dump Body. I am sure the following detailed specification will meet your operational requirements, and I look forward to serving your business needs.

Model Profile
2009 7300 SFA 4X2 (SA515)

APPLICATION:

Front Plow with spreader

MISSION:

Requested GVWR: 33000. Calc. GVWR: 36220
Calc. Start / Grade Ability: 37.80% / 2.41% @ 55 MPH
Calc. Geared Speed: 75.3 MPH

FUEL ECONOMY:

8.33 MPG @ 55 MPH

DIMENSION:

Wheelbase: 160.00, CA: 85.00, Axle to Frame: 41.00

ENGINE, DIESEL:

{International MaxxForce DT} 255 HP, 660 lb-ft Torque @ 1400 RPM, 2600 RPM Governed Speed, # 2 Bell Housing

TRANSMISSION, AUTOMATIC:

{Allison 3500_RDS_P} 4th Generation Controls; Wide Ratio, 5-Speed, With Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.

CLUTCH:

Omit Item (Clutch & Control)

AXLE, FRONT NON-DRIVING:

{Dana Spicer I-140W} Wide Track, I-Beam Type, 14,000-lb Capacity

AXLE, REAR, SINGLE:

{Dana Spicer S23-170D} Single Reduction, 23,000-lb Capacity, With Driver Control Locking Differential, With R Wheel Ends Gear Ratio: 5.57

CAB:

Conventional

TIRE, FRONT:

(2) 11R22.5 G149 RSA/RH (GOODYEAR) 501 rev/mile, load range H, 16 ply

TIRE, REAR:

(4) 11R22.5 G338 1AD (GOODYEAR) 496 rev/mile, load range G, 14 ply

SUSPENSION, RR, SPRING, SINGLE:

Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring

PAINT:

Cab schematic 100GM
Location 1: 9219, Winter White (Std)
Chassis schematic N/A

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WV PURCHASING
DIVISION

Description

Base Chassis, Model 7300 SFA 4X2 with 160.00 Wheelbase, 85.00 CA, and 41.00 Axle to Frame.

TOW HOOK, FRONT (2) Inside Rail, Frame Mounted.

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL

BUMPER, FRONT Omit Item

FRAME EXTENSION, FRONT Integral; 20" In Front of Grille

WHEELBASE RANGE 146" (370cm) Through and Including 195" (495cm)

AXLE, FRONT NON-DRIVING {Dana Spicer I-140W} Wide Track, I-Beam Type, 14,000-lb Capacity

Includes

: PLEASE NOTE: Front Axle Derated to 13,200-lb. GAWR when used in Conjunction with Code 04JBG BRAKES, FRONT, AIR CAM

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 14,000-lb Capacity; With Shock Absorbers

Includes

: SPRING PINS Rubber Bushings, Maintenance-Free

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

Includes

: BRAKE CHAMBERS, SPRING (2) Rear Parking

: BRAKE LINES Color and Size Coded Nylon

: DRAIN VALVE Twist-Type

: DUST SHIELDS, FRONT BRAKE

: DUST SHIELDS, REAR BRAKE

: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

: PARKING BRAKE VALVE Controlled by Yellow Knob, Located on Instrument Panel

: QUICK RELEASE VALVE On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4

: SLACK ADJUSTERS, FRONT Automatic

: SLACK ADJUSTERS, REAR Automatic

: SPRING BRAKE MODULATOR VALVE

TRAILER CONNECTIONS Four-Wheel, With Hand Control Valve and Tractor Protection Valve, for Straight Truck

DRAIN VALVE {Berg} Manual; With Pull Chain, for Air Tank

AIR BRAKE ABS {Bendix AntiLock Brake System} Full Vehicle Wheel Control System (4-Channel) With Automatic Traction Control

AIR DRYER {Bendix AD-9} With Heater

BRAKE CHAMBER IDENTITY, SPRING {MGM Type TR-TS Long Stroke}

BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. MGM Long Stroke Brake Chambers

BRAKES, REAR, AIR CAM 16.5" x 7.0"; Includes MGM TR3030 Long Stroke Brake Chamber and Heavy Duty Spring Actuated Parking Brake

AIR COMPRESSOR {Bendix Tu-Flo 550} 13.2 CFM Capacity

STEERING COLUMN Tilting

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR {Sheppard M-100} Power

DRIVESHAFT {Dana Spicer} SPL100 in lieu of SPL90 Series

EXHAUST SYSTEM Single, Horizontal, Aftertreatment Device Frame Mounted Right Side Back of Cab; Includes Vertical Tail Pipe And Bright Guard

ENGINE BRAKE, DLOGIC {Diamond Logic} for MaxxFoerce DT Engines; Combination Engine and Exhaust Brake, Electronically Activated

Description

TAIL PIPE (1) Turnback Type, Non-Bright Finish, for Single Exhaust

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

Includes

- : BATTERY BOX Steel with Fiberglass Cover; Mounted Right Side, Back of Cab
- : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
- : FUSES, ELECTRICAL SAE Blade-Type
- : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
- : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
- : HEADLIGHTS (2) Sealed Beam Halogen, 5" X 7" Rectangular, with Chrome Plated Bezels
- : HORN, ELECTRIC Single
- : JUMP START STUD Located on Positive Terminal of Outermost Battery
- : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
- : RUNNING LIGHT (2) Daytime, Included With Headlights
- : STARTER SWITCH Electric, Key Operated
- : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
- : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
- : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
- : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
- : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
- : WIRING, CHASSIS Color Coded and Continuously Numbered

POWER SOURCE Cigar Type Receptacle without Plug and Cord

BATTERY TERMINALS Sealed

ALTERNATOR {Leece-Neville BLP2303H} Brushless; 12 Volt 140 Amp. Capacity, Pad Mounted

BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

BATTERY SYSTEM {International} Maintenance-Free, (3) 12-Volt 1950CCA Total

RADIO {International} AM/FM Stereo With Weatherband, Clock, Auxiliary Input, Includes Multiple Dual Cone Speakers

Includes

- : SPEAKERS IN CAB (2) Dual-Cone with Deluxe Interior
- : SPEAKERS IN CAB (4) Coaxial with Premium Interior

AUXILIARY HARNESS 3.0' for Auxiliary Front Head Lights and Turn Signals for Front Plow Applications

TRAILER CONNECTION SOCKET 7-Way; Mounted at rear of Frame, Wired for Turn Signals Combined With Stop, Compatible With Trailers That Use Combined Stop, Tail, Turn Lamps

JUMP START STUD Remote Mounted

HORN, AIR Black, Single Trumpet, Air Solenoid Operated, Mounted Behind Bumper on Right Rail

STARTING MOTOR {Delco Remy 38MT Type 300} 12 Volt; less Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL With Audible Alarm

CIRCUIT BREAKERS Manual-Reset (Main Panel) SAE Type III With Trip Indicators, Replaces All Fuses Except For 5-Amp Fuses

GRILLE Stationary, with Vendor Painted Grille & Headlight Bezels, Argent NAV 8752

BUG SCREEN Front End; Mounted Behind Grille

FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 Emissions

PAINT SCHEMATIC, PT-1 Single Color, Design 100

Includes

- : PAINT SCHEMATIC ID LETTERS "GM"

Description

PAINT TYPE Base Coat/Clear Coat, 1-2 Tone

CLUTCH Omit Item (Clutch & Control)

PTO EFFECTS, ENGINE FRONT Less PTO Unit, Includes Adapter Plate on Engine Front Mounted

ENGINE, DIESEL {International MaxxForce DT} 255 HP, 660 lb-ft Torque @ 1400 RPM, 2600 RPM Governed Speed, # 2 Bell Housing

Includes

: AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated

: COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control

: CRUISE CONTROL Electronic; Controls Integral to Steering Wheel

: ENGINE OIL DRAIN PLUG Magnetic

: ENGINE SHUTDOWN Electric, Key Operated

: FUEL FILTER Included with Fuel/Water Separator

: FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted

: GOVERNOR Electronic

: OIL FILTER, ENGINE Spin-On Type

: WET TYPE CYLINDER SLEEVES

FAN DRIVE {Borg-Warner SA85} Viscous, Screw On Type

Includes

: FAN Nylon

RADIATOR Cross Flow, Series System; 1228 SqIn Aluminum Radiator Core and 1167 SqIn Charge Air Cooler

Includes

: ANTI-FREEZE Red Shell Rotella Extended Life Coolant -40F (-40C)

: DEAERATION SYSTEM with Surge Tank

: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

: RADIATOR HOSES Premium, Rubber

FEDERAL EMISSIONS for 2004; for International VT365, DT466 and DT570 Engines

AIR CLEANER Dual Element

Includes

: GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

FEDERAL EMISSIONS 2007 for International MaxxForce DT Engines (DT466)

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for International post 2007 Emissions Electronic Engines

BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt; With "Y" Cord From Socket in Standard Location, With Provision in Oil Pan For a Dealer Installed Oil Pan Heater, With Extended Life Coated Oil Pan, for I6 Engines

Includes

: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

EXPANDED ENGINE TEMP EFFECTS to Allow Higher Engine Operating Temperature Range; Includes Nylon Surge Tank and 15 psi Pressure Cap

EMISSION COMPLIANCE Federal, Does Not Comply With California Clean Air Regulations

TRANSMISSION, AUTOMATIC {Allison 3500_RDS_P} 4th Generation Controls; Wide Ratio, 5-Speed, With Overdrive; On/Off Hwy; Includes Oil Level Sensor, With PTO Provision, Less Retarder, With 80,000-lb GVW & GCW Max.

Includes

: OIL FILTER, TRANSMISSION Mounted on Transmission

: TRANSMISSION OIL PAN Magnet in Oil Pan

Description

OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil, for Allison or CEEMAT Transmission

TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission

SHIFT CONTROL PARAMETERS WT-Allison S-1 Performance Programming in Primary and Allison S-4 Economy Programming in Secondary

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Rugged Duty Series (RDS); General Purpose Trucks, Construction

PTO CONTROL, DASH MOUNTED For Customer Provided PTO; Includes Switch, Electric/Air Solenoid, Piping and Wiring

AXLE, REAR, SINGLE {Dana Spicer S23-170D} Single Reduction, 23,000-lb Capacity, With Driver Control Locking Differential, With R Wheel Ends . Gear Ratio: 5.57

Includes

: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity, With 4500 lb Auxiliary Rubber Spring

AXLE, REAR, LUBE {EmGard 75W-90} Synthetic Oil; 30 thru 39.99 Pints

FUEL TANK Top Draw; D Style, Steel, 50 U.S. Gal., 189 L Capacity, With Quick Connect Outlet, 16" Tank Depth, Mounted Left Side Under Cab

CAB Conventional

Includes

: ARM REST (2) Molded Plastic; One Each Door

: CLEARANCE/MARKER LIGHTS (5) Flush Mounted

: COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window

: CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel

: DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens, Timed Theater Dimming, Integral to Console, Center Mounted

: GLASS, ALL WINDOWS Tinted

: GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side

: GRAB HANDLE, CAB INTERIOR (2) "B" Pillar Mounted, One Each Side

: INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color

: STEP (4) Two Steps per Door

GAUGE CLUSTER English With English Electronic Speedometer

Includes

: GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level

: ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout

: WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

GAUGE, TEMPERATURE, AMBIENT Includes Compass Readout and Wiring and Sensor With Display Unit Mounted in Cluster

GAUGE, AIR CLEANER RESTRICTION {Filter-Minder} With Black Bezel Mounted in Instrument Panel

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {National 2000} Air Suspension, High Back With Integral Headrest, Cloth, Isolator, 1 Chamber Lumbar, 2 Position Front Cushion Adjust, -3 to +14 Degree Back Angle Adjust

Includes

: SEAT BELT 3-Point, Lap and Shoulder Belt Type

SEAT, PASSENGER {National} Air-Suspension, High Back With Integral Headrest, Cloth, Isolated, 1 Chamber Lumbar, 2 Position Front Cushion Adjustment, -3 to +14 Degree Seat Back Adjustment

Includes

Description

: SEAT BELT 3-Point, Lap and Shoulder Belt Type

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostat Controlled, Power Both Sides Flat Glass Only, Clearance Lights LED,

GRAB HANDLE Chrome; Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry Mounted Left Side Only at "B" Pillar

INSTRUMENT PANEL Center Section, Flat Panel

WINDOW, POWER (2) And Power Door Locks, Left and Right Doors

AIR CONDITIONER {International Blend-Air} With Integral Heater & Defroster

Includes

: FRESH AIR FILTER

: HEATER HOSES Premium

: REFRIGERANT Hydrofluorocarbon HFC-134A

FRESH AIR FILTER for HVAC

STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door

CAB INTERIOR TRIM Premium

Includes

: "A" PILLAR COVER Molded Plastic

: CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering

: CAB SOUND INSULATION Dash and Engine Cover Insulators

: CAB, INTERIOR TRIM, CLOSEOUT Lower Dash Closeout Panel; Molded Plastic; Under Instrument Panel Driver Side

: CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets, CB Radio Pocket, Compass/Temp Display, and Reading Lights

: COURTESY LIGHT (2) Mounted In Front Map Pocket Left and Right Side

: DOOR TRIM PANELS with Cloth Insert on Bolster Driver and Passenger Doors

: FLOOR COVERING Rubber, Black

: HEADLINER Soft Padded Cloth

: INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section

: STORAGE POCKET, DOOR (2) Molded Plastic (Carpet Texture), Full-Length; Driver and Passenger Doors

: SUN VISOR (3) Padded Vinyl, 2 Moveable (Front-to-Side) Primary Visors, Driver Side with Vanity Mirror and Toll Ticket Strap, plus 1 Auxiliary Visor (Front Only), Driver Side

CAB REAR SUSPENSION Air Bag Type

WINDSHIELD WIPER BLADES Snow Type

WHEELS, FRONT DISC; 22.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs

Includes

: PAINT IDENTITY, FRONT WHEELS White

: WHEEL SEALS, FRONT Oil Lubricated, Includes Wheel Bearings

WHEELS, REAR DUAL DISC; 22.5" Painted Steel, 5 Hand Hole, 10-Stud (285.75MM BC) Hub Piloted, Flanged Nut, Metric Mount, 8.25 DC Rims; With .472" Thick Increased Capacity Disc and Steel Hubs

Includes

: PAINT IDENTITY, REAR WHEELS White

: WHEEL SEALS, REAR Oil Lubricated, Includes Wheel Bearings

PAINT IDENTITY, FRONT WHEELS {Accuride} Disc Front Wheels; With Vendor Applied (PKGGRY21) Grey Powder Coat Paint

PAINT IDENTITY, REAR WHEELS {Accuride} Disc Rear Wheels; With Vendor Applied (PKGGRY21) Grey Powder Coat Paint

WHEEL GUARDS, FRONT {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts Mounted Between Hub and Wheel

Description

WHEEL GUARDS, REAR {Accuride} for Metric Hub Piloted Wheels with Flanged Mounting Nuts, Mounted Between Hub & Wheel and Between Dual Wheels

WHEEL BEARING, FRONT, LUBE {EmGard 50W} Synthetic Oil

BDY INTG, REMOTE POWER MODULE Mounted Inside Cab; Up to 6 Outputs & 6 Inputs, Max. 20 amp. per Channel, Max. 80 amp. Total (Includes 1 Switch Pack With Latched Switches)

(4) TIRE, REAR 11R22.5 G338 1AD (GOODYEAR) 496 rev/mile, load range G, 14 ply

(2) TIRE, FRONT 11R22.5 G149 RSA/RH (GOODYEAR) 501 rev/mile, load range H, 16 ply

CROSSMEMBER, FRONT Relocate first crossmember behind cab to allow 23" to 38" of clean area between rails to allow for body shoot

Services Section:

SRV CONTRACT, EXT VEH COVERAGE To 24-Month/Unlimited Mileage; With 90-Day Towing; Covers 100% Parts and Labor, Excludes Extending Warranty for Engine, Transmission, Frame Side Rails, Paint, Perforation or Corrosion of Cab/Cowl Structure

Ace Dump Body per state bid specifications.

Triangle Kit

MEDIUM DUTY LOT&PACK

<u>Description</u>	(USA DOLLAR)	<u>Price</u>
Factory List Prices:		
Product Items	\$87,094.00	
Service Items	\$740.00	
Total Factory List Price Including Options:		\$87,834.00
Total Goods Purchased:		\$390.00
Freight Charge	\$1,650.00	
Total Freight:		\$1,650.00
Total Factory List Price Including Freight:		\$89,874.00
Less Customer Allowance:		(\$27,288.15)
Total Vehicle Price:		\$62,585.85
Total Body/Allied Equipment:		\$45,922.00
Total Sale Price:		\$108,507.85
Total Per Vehicle Sales Price:		\$108,507.85
Net Sales Price:		\$108,507.85

Please feel free to contact me regarding these specifications should your interests or needs change. I am confident you will be pleased with the quality and service of an International vehicle.

Approved by Seller:

Accepted by Purchaser:

Official Title and Date

Firm or Business Name

Authorized Signature

Authorized Signature and Date

**This proposal is not binding upon the seller without
Seller's Authorized Signature**

Official Title and Date

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: 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.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

If this is a solicitation for a public improvement construction contract, the vendor, by its signature below, affirms that it has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code*. The vendor **must** make said affirmation with its bid submission. Further, public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the *West Virginia Code* and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the *West Virginia Code* may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

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. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/noticeConfidentiality.pdf>.

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

Vendor's Name: BWAR INTERNATIONAL
Authorized Signature: [Signature] Date: 3/25/09

VENDOR PREFERENCE CERTIFICATE

Certification and application* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

- 1. Application is made for 2.5% resident vendor preference for the reason checked: 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, Bidder is a partnership, association or corporation resident vendor and 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 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, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,
2. Application is made for 2.5% resident vendor preference for the reason checked: 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; or,
3. Application is made for 2.5% resident vendor preference for the reason checked: 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 Bidder's 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; or,
4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,
5. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,
6. Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

Bidder understands if the Secretary of 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) reject the bid; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of 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.

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.

Bidder: BWAB INTERNATIONAL Signed: [Signature]
Date: 3/25/09 Title: VP SALES

*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT
NO. 371-2-G

33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND
PISTON PUMP HYDRAULIC SYSTEM

NOTE TO BIDDER: Procurement Specification No. 371-2-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. 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.: 709ECO11

Bidder's Name: BWAB International LLC

Address: 408 Goff Mountain Road Cross Lanes WV 25313

Telephone Number: 304-776-5600

Years Bidder has been registered to do business with the State of West Virginia: 1 YRS.

Years Company has been an authorized dealer for proposed unit: 1 YRS.

X3.2 Have you complied with all mandatory specifications? 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: 90 Calendar Days After Receipt of
Purchase Agreement

The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at
www.state.wv.us/admin/purchase

X5.0 AWARD CRITERIA;

X5.1 Prices for units:

1-25	<u>\$108,507.85</u> per unit
26-50	<u>\$108,507.85</u> per unit
51 and over	<u>\$108,507.85</u> per unit

X6.0 SPECIFICATIONS - GENERAL

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

Cab and Chassis: 7300 SFA 4x2 INTERNATIONAL

Dump Body: _____

Piston Pump Hydraulics: _____

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

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?

YES NO

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

X6.2
2-10-00

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

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

DESCRIPTION: will provide if awarded 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 will provide CD for each DOH location

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:

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)

Attached.

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.

All warranty work to be performed at any International dealership as out lined below

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

Parts inventories are maintained in Charleston, Beckley, Bluefield and White Sulphur Springs by BWAB and in Elkins by Newtons and in Wheeling by O.S. Hill International.

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

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 \$ 88.00 per mechanic hour
- B. Travel Time Charge \$ 88.00 per mechanic hour
(Specify if one-way) _____; port to port _____
- C. Mileage Charge \$ 1.65 per vehicle mile
(Specify if one-way) _____; port to port _____
- D. Field Mechanic Rate \$ 88.00 per mechanic hour
- E. Specify period of time that prices are in effect: 1yr
- F. Surcharge for miscellaneous items: n/a %

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 AND CHASSIS

Manufacturer: International Model: 7300 SFA 4x2

X8.1 GVW plate rating: 36,220 Lbs.

X8.2 Cab to axle dimension: 85" Inches.

X8.2.1 Cab to end of frame: 125" inches

X8.3 Wheelbase: 1160 inches, set forward design for our snowplow applications YES NO

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

Will extension extend forward of the grille area a minimum of 12 inches YES NO

Warranty on frame: 5 years and conform to the following:

- X8.4.1 Frame steel: 120,000 PSI yield strength minimum YES NO
- X8.4.2 R.B.M.: 2,134,800 Ins./Lb.
- X8.4.3 Is the truck chassis frame rails free of obstructions inside the frame rails and along the left outside frame rail 23 inches to 38 inches from the back of the cab for installation of the spinner chute YES NO
- X8.4.4 Have you omitted the factory installed bumper and complied with our building of a front bumper YES NO
- X8.5 Cab: Is cab manufacturer's standard steel and/or fiberglass and/or aluminum with premium or manufacturers highest level interior trim with inside noise level rating not to exceed 80 dba in compliance with Federal regulations YES NO
- Does it have an ambient temperature display for outside temperature YES NO
- Is hood a tilt hood and fenders either steel and/or fiberglass YES NO
- Is rear air bag suspension provided YES NO
- Inner fender panels that are adequate to keep materials from engine compartment YES NO
- X8.5.1 Is unit equipped with manufacturers tilt steering column with cruise control feature YES NO
- OR
- Provide locking hand operated throttle YES NO
- X8.5.2 Seats:
- Driver – Fully adjustable high back with head rest, air ride, bucket style; seat includes air lumbar, hip bolsters, side bolsters, and back bolsters, with full cloth on entire seat YES NO
- Cloth with vinyl boxing*
- Material is Modura YES NO OR approved equal: _____
- X8.5.2.1 Passenger seat fully adjustable high back with head rest, air ride, bucket style, cloth covered or cloth insert in vinyl YES NO
- Clearance between drivers and passenger seats 20 inches
- X8.5.3 Floor mats: Rubber floor mats throughout cab area with non-absorbent backing under mats YES NO
- X8.5.4 Heater and defroster: Fresh air type, heaviest duty YES NO

- X8.5.5 Windshield wipers and washers: Manufacturers heaviest duty artic type with intermittent feature
 YES NO
- Wipers equipped with snow type blades
 YES NO
- X8.5.6 Instruments: Are manufacturer's gauges with visual and/or audible, and/or programmable warning to inform driver when operating conditions are exceeded included:
- X8.5.6.1 Voltmeter or ammeter YES NO
- X8.5.6.2 Engine RPM tachometer YES NO
- X8.5.6.3 Speedometer with odometer YES NO
 Are provisions for dual speedometers leads available YES NO
- X8.5.6.4 Air pressure gauge(s) YES NO
- X8.5.6.5 Air filter to be manufacturers heaviest element type YES NO
- X8.5.6.6 Air filter restriction indicator dash mounted YES NO
- X8.5.6.7 Engine hourmeter (controlled by engine operation) YES NO
- X8.5.6.8 Fuel gauge(s) with low fuel warning indicator YES NO
- X8.5.6.9 Is unit equipped with front air intake YES NO
 Is an air actuated or cable control valve provided to enable operator to divert air intake to engine compartment while in snow plowing application
 YES NO
- X8.5.6.10 Oil pressure gauge YES NO
- X8.5.6.11 Temperature gauge YES NO
- X8.5.6.12 Low coolant indicator YES NO
- X8.5.7 Accessories:
- X8.5.7.1 Manufacturers dash mounted extended two (2) cup drink holder
 YES NO
- X8.5.7.2 Air horns with snow shields YES NO
 If cab mounted, adequate clearance for future installation of dump body cab protector
 YES NO
- Single horn without snow shield YES NO
 Mounted downward on frame rail under hood YES NO

- X8.5.7.3 Rearview Mirrors:
 Heated dual, West Coast Type YES NO Size: 7" x 15"
 Power adjustable with convex spot mirror YES NO
 (OR)
 dual flat mirrors (Size: _____) and power adjustable with separate dual
 (Size: _____) convex spot mirrors YES NO
- to include fore and aft breakaway feature with corrosive resistant finish equal to stainless steel, powder coat or aluminum or molded plastic housing and mounting brackets
 YES NO
- X8.5.7.4 Grab Handle:
 Right hand and left hand sides internal or external mounting to rear of door opening
 YES NO
- If inside handles, one (1) outside, left, mounted grab handle with non-slip insert for bed aggregate inspection furnished**
 YES NO
- X8.5.7.5 Glass: Manufacturers tinted safety glass; front, sides, and rear YES NO
- X8.5.7.5.1 Dual power windows YES NO
- X8.5.7.6 Radio: Manufacturers standard AM/FM stereo YES NO
 Weather band radio feature YES NO
- X8.5.7.7 Air Conditioning: Manufacturers fresh air type heaviest duty with APADS or equivalent RCD system to include replaceable fresh air filter YES NO
- X8.5.7.8 **Manufacturers stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount**
 YES NO
Bug screen provided behind grille
 YES NO
- X8.5.7.9 Front mudflaps manufacturers standard for unit bid YES NO
- X8.5.7.10 Emergency triangle warning kit, with hold down or stowed in the cab
 YES NO
 Make/Model: Strato-Flare 219
- X8.5.7.11 Does unit include kit for front mounted CB radio and all power and ground wiring to include co-ax cable, antenna, speaker, etc. n/a YES NO
All cable and wiring routed using grommets and wire looms
Deleted from specifications on Addendum 3 n/a YES NO
 Radio make and model: n/a
- X8.5.7.12 **Two (2) front frame mounted tow hooks or eyes** YES NO

X8.5.7.13

Accessories included in manufacturers standard cab not listed above:

X8.6 Engine:

Make: International Model: DT466
255 HP. Torque @ 1660 Lb. Ft.

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

X8.6.2 Fuel heater/water separator mounted inside engine compartment YES NO

Manufacturer: International

X8.6.3 Engine block heater watt/ 1250 v rating includes weather proof spring loaded cap over plug YES NO

X8.6.4 Single vertical exhaust pipe with horizontal muffler that meets all Federal noise abatement requirements YES NO

Exhaust frame mounted on the passenger side of unit with heat shield on vertical exhaust YES NO

X8.6.5 Engine equipped with engine brake YES NO

Compression YES NO (or) Compression/Exhaust YES NO (or) Exhaust YES NO

Manufacturer: International

X8.6.6 Is engine oil pan zinc nickel plated YES NO

(OR) Aluminum YES NO (OR) Non-Corrosive coated YES NO

X8.6.7 Engine provides electronic speed control including throttle and cruise control features YES NO

X8.7 Cooling System:

X8.7.1 Is cooling system capable of maintaining engine temperature within the manufacturers recommended range during continuous winter/summer operation YES NO

Does unit provide an automatic "on-off" fan drive with nylon fan blades YES NO

Manufacturer: Borg Warner

- X8.7.2 Will the system be filled with permanent type extended life coolant Dex-Cool or equivalent rated at a -34°F minimum YES NO
- X8.7.3 Does the radiator provide adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft YES NO
- The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft is _____ inches to insure adequate clearance for PTO drive shaft
- Radiator and heater hoses are silicone type or approved equivalent with constant torque clamps or equivalent utilized on radiator hoses to minimize cold water leaks YES NO
- X8.8 Fuel Tank:
- X8.8.1 Capacity: 50 US gallons. Does tank comply with FMVSS YES NO
- Filler Cap is chain tethered YES NO
- X8.9 Electrical System:
- X8.9.1 Type: _____ volt negative ground system includes manual reset circuit breakers (main panel) SAE Type III with trip indicators to replace all fuses except for 5 amp fuses. YES NO
- X8.9.2 Batteries:
- X8.9.2.1 Cold Crank AMPS 1950 AMPS with sealed terminals
- X8.9.2.2 Jump start studs mounted on outside of battery box YES NO
- X8.9.3 Alternator Capacity: 140 AMPS brushless with internal regulator
- X8.9.4 Lighting: All lighting conforms to the West Virginia Motor Vehicle Code YES NO
- Unit features daytime running lights YES NO
- Cab marker lights are LED type with halogen headlamps. YES NO
- X8.9.5 Is auxiliary snow plow lighting package included YES NO
- X8.9.5.1 Will truck vendor eliminate rear taillights _____ YES NO
Is there at least eight (8) foot of wiring bundled at end of frame for body vendor hookup of taillights provided in dump bed body YES NO
- X8.9.6 Will manufacturer _____ YES _____ NO or successful vendor YES _____ NO make provisions for manufacture approved wiring and weatherproof disconnect plug YES NO
- Manufacturer and Part number provided by body company
- Will there be three (3) foot "pigtail" to operate front/combination left and right turn/park lights/auxiliary headlights. YES NO

X8.9.6.1 Is weatherproof disconnect plug located at lower left front grille/bumper area YES NO

Are all wiring connections weatherproof with wiring encased in wire looms YES NO

X8.9.6.2 Are provisions for 7-way trailer connection light socket mounted at rear of truck frame YES NO

Manufacturer and Part number Phillips 48NA23-036

X8.9.6.3 Will manufacturer provide 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

X8.9.6.4 Will manufacturer provide body builder circuits – three (3) 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 this power module 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

Manufacturer: Allison Model: 3500 RDS

X8.11 Driveline: Dana
Does it have a greasable main shaft YES NO

X8.12 Rear Axle:

X8.12.1 Rated Capacity: 23000 Lbs. Single reduction includes driver controlled main locking differential YES NO

X8.12.2 Rear Spring Capacity: 23500 Lbs. including 4500 lb. capacity load stabilizer Springs YES NO

Does it provide sufficient clearance between spring, brake chambers, and tires to operate with single tire chains YES NO

X8.12.3 Gear ratio: 5.57
Are vehicles capable of a top speed of 70 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
- X8.13 Front Axle:
- X8.13.1** Capacity: 14000 lbs. I-beam type
- X8.13.2** Front Spring Capacity: 14000 lbs.; 14000 lbs. rating for use with front plow
- X8.13.3** Manufacturers heavy duty shock absorbers YES NO Make: _____
- X8.13.4** Front wheel oil lubricated wheel seals YES NO Make: _____
- X8.14 Brakes:
- X8.14.1** Type: Full air, with manufacturers ABS with traction control in compliance with the most current FMVSS requirements
 YES NO
- X8.14.2** Compressor: Model and Make: Bendix TV-FLO550 13.2 CFM
- X8.14.3** Service Brake Size:
- X8.14.3.1** Front: 16.5 x 5
- X8.14.3.2** Rear: 16.5 x 7
- X8.14.4** Parking Brake: Spring set, air release actuating rear axle service brakes YES NO
 Instrument panel control YES NO MGM
- X8.4.4.1** Are all brake chambers sealed brake chambers with epoxy exterior coat on front and rear chambers
 YES NO Make: _____
- X8.14.5** Air dryer with heater YES NO Make and Model: _____
- X8.14.6** Manufacturer's standard air tanks for service brakes; 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 all current Federal and State FMVSS requirements YES NO
- X8.14.9** Are brake dust covers installed on all wheels YES NO
- X8.14.10** Is unit equipped with tractor protection valve and hand control valve to accommodate installation of glad hands at rear of frame rails to enable unit to pull an air-braked trailer
 YES NO

X8.14.10.1 Are glad hand recessed as not to stick out past end of frame rails YES NO

X8.15 Tires and Wheels:

X8.15.1 Wheel, Front and Rear 22.5 x 8.25 hub piloted steel disc type, to accommodate specified tire size YES NO

Make and Model: Accuride with 0.472 inches thickness YES NO

All wheels include wheel guard separators YES NO

X8.15.2 Tires: (Describe)

X8.15.2.1 Front: 11R22.5 Goodyear G149 11.6 Ply

X8.15.2.2 Rear: 11R22.5 Goodyear G338 14 ply

X8.16 Manufacturers standard power steering for front axle specified YES NO

Manufacturer: Shepard

X8.17 Features considered as standard equipment not specifically addressed:

PTO plumbing from factory

X8.18 Paint:

X8.18.1 Specify cab exterior and interior color and paint type:

White/Sirrens/Base, Clear grey interior

X8.18.2 Is truck grille manufacturer's standard similar to silver/aluminum in color? YES NO

X8.18.3 Are fuel tanks, steps, air tanks and battery box non-corrosive coated? YES NO

X8.18.3.1 Is wheel paint provided as specified? YES NO

X8.18.4 Detail/Decorative Stripes with Logo:

X8.18.4.1 Are stripes provided 2" type with taper at front of hood? YES NO

X8.18.4.2 Does the conspicuity striping material provided meet requirements of Section 8.18.4.3 through 8.18.4.6 of the specification section? YES NO

Will you install the striping? YES NO

X8.18.4.7 Is your proposed paint plan attached with your bid? YES NO

If not, why? _____

X8.18.4.8 Will you use manufacturer's standard plant procedures for prepping of cab for painting? YES NO

X8.19 Does the proposed unit meet or exceed the "OSHA of 1970" and/or subsequent changes? YES NO

X8.20 Does the unit conform to the advertising guidelines? (Describe)
Yes

X8.21 Preventive Maintenance and Operator's Training School:

X8.21.1 Will a preventative maintenance and operator's training seminar be provided? YES NO

X8.21.2 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training? YES NO

X8.21.3 Will all manuals, booklets, etc. explain preventive maintenance, operator procedures, and service schedule be delivered with each unit? YES NO
If NO, explain _____

X9.0 SPECIFICATIONS – 304 STAINLESS STEEL COMBINATION DUMP/SPREADER 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.

Reference Requisition No. on request for proposal: _____

Bidder's Name: _____

Address: _____

Telephone Number: _____

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

Manufacturer, model, series, and date of manufacture of proposed combination dump/spreader body:

Is descriptive literature, fully describing proposed dump/spreader body attached to your bid? _____ YES _____ NO

If NO, why _____
Refer to Section 6.1 of the specification

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 _____

Will combination dump/spreader body have minimum 2 year basis warranty including parts and labor excluding abuse and normal wear items _____ YES _____ NO

X9.1 Body capacity _____ cubic yards water level

X9.2. Sideboard pockets and tailgate height provide additional capacities of _____ cubic yard

X9.3 Front body bulkhead 3/16 inch 304 stainless steel _____ YES _____ NO

X9.4 Cab shield has sufficient clearance to ensure shield will not hit exhaust when dumping on uneven terrain? _____ YES _____ NO

X9.5 Two (2) front truck frame mounted tow hooks or eyes accessible through the bumper _____ YES _____ NO

X9.6 Dimensions:

X9.6.1 Inside length of body _____ inches

X9.6.2 Inside width of body _____ inches wide to maximize capacity and lower the center of gravity of the unit

X9.6.3 Outside width of body _____ inches at the integral fenders

X9.6.4 Body spacing from cab _____ inches

X9.6.5 Basic minimum side height _____ inches (measure from the floor to top rail)

X9.6.6 Tailgate minimum height _____ inches (measure from the floor to top rail)

X9.6.7 Body overhang _____ inches to _____ inches (measure from center of hinge pin)

X9.6.8 Cab protector _____ inches x _____ inches with adequate clearance for cab mounted air horns

X9.7 Is cab protector sloped rearward for drainage purposes _____ YES _____ NO

X8.18.4.8 Will you use manufacturer's standard plant procedures for prepping of cab for painting? YES NO

X8.19 Does the proposed unit meet or exceed the "OSHA of 1970" and/or subsequent changes? YES NO

X8.20 Does the unit conform to the advertising guidelines? (Describe)

X8.21 Preventive Maintenance and Operator's Training School:

X8.21.1 Will a preventative maintenance and operator's training seminar be provided? YES NO

X8.21.2 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training? YES NO

X8.21.3 Will all manuals, booklets, etc. explain preventive maintenance, operator procedures, and service schedule be delivered with each unit? YES NO
If NO, explain _____

X9.0 SPECIFICATIONS -- 304 STAINLESS STEEL COMBINATION DUMP/SPREADER 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.

Reference Requisition No. on request for proposal: 709EC011

Bidder's Name: ACE TRUCK EQUIPMENT CO.

Address: 1130 NEWARK RD. ZANESVILLE, OHIO 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 combination dump/spreader body:

HENDERSON MUNI II - WV09

Is descriptive literature, fully describing proposed dump/spreader body attached to your bid? YES NO

If NO, why _____
Refer to Section 6.1 of the specification

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 UNITS

Will combination dump/spreader body have minimum 2 year basis warranty including parts and labor excluding abuse and normal wear items YES NO

- X9.1 Body capacity 6 cubic yards water level w/ 35 DEGREE SIDES
- X9.2 Sideboard pockets and tailgate height provide additional capacities of 2.9 cubic yard
- X9.3 Front body bulkhead 3/16 inch 304 stainless steel YES NO
- X9.4 Cab shield has sufficient clearance to ensure shield will not hit exhaust when dumping on uneven terrain? YES NO
- X9.5 Two (2) front truck frame mounted tow hooks or eyes accessible through the bumper YES NO
- X9.6 Dimensions:
- X9.6.1 Inside length of body 120 inches
- X9.6.2 Inside width of body 88 inches wide to maximize capacity and lower the center of gravity of the unit
- X9.6.3 Outside width of body 95 inches at the integral fenders
- X9.6.4 Body spacing from cab 4 inches
- X9.6.5 Basic minimum side height 36 inches (measure from the floor to top rail)
- X9.6.6 Tailgate minimum height 46 inches (measure from the floor to top rail)
- X9.6.7 Body overhang 10 inches to 18 inches (measure from center of hinge pin)
- X9.6.8 Cab protector 22 inches x 94 inches with adequate clearance for cab mounted air horns
- X9.7 Is cab protector sloped rearward for drainage purposes YES NO

X9.8 Construction of the body sides, front, head, and tailgate conform to the following minimum Specifications

- Steel types are 304 stainless steel YES NO
- X9.8.1 Floor:** 1/4 inch thickness 1/4" AR400
- X9.8.2 Sides:** 3/16 inch thickness
- X9.8.3 Tailgate plate:** 3/16 inch thickness
- X9.8.4 Top rail:** 3/16 inch thickness
- X9.8.5 Cab protector:** 10 gauge
- X9.8.6 Longitudinal:** 10 inch 7 gauge 304 stainless steel formed inner/ 10 gauge 304 stainless steel formed with internal stainless steel gussets every 30 inches
- X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting frame mounted approximately 85 gallon poly liquid tanks.** YES NO
SEE ADDENDUM
- Will the body be designed to allow maximum protection to the tanks** YES NO
- X9.9 Is all welding inside the body continuous, not skip welded.** YES NO
- Are all rails and posts continuous welded** YES NO
- X9.10 Are the rear corner posts full length, one (1) piece construction** YES NO
- X9.10.1 Is a rear bolt on spreader apron provided** YES NO
Is it integrated into the rear of the bed YES NO
- X9.11 Cab protector sides, formed with gussets, extend forward 22 inches. Clearance above highest point of cab is 3 inches**
- X9.12 Is the body a unibody design -- no crossmembers** YES NO
- X9.12.1 The body has one (1) piece sides and floor which incorporates a sloping floor to side radius to adequately feed material to the conveyor chain.** YES NO
- X9.12.2 Do the sides of the body slope to the conveyor to facilitate self cleaning of body without raising** YES NO
- X9.13 The boxed top rail is sloped inward to shed debris** YES NO
- X9.14 Full length 304 stainless steel integral rear fenders which incorporate prewet liquid reservoirs (85 gallon)** YES NO

X9.15 An integrated center conveyor provides the ability of the body to convey granular materials with the body down X YES NO

The following features are provided:

X9.15.1 Does the conveyor have no more than 12 inch truck frame to body floor height for lower center of gravity and lower mounting height X YES NO

10"

X9.15.1.1 Have you used wood YES X NO Type of material: LONGSILLS SIT ON TRUCK FRAME

X9.15.2 1/4 inch 304 stainless steel conveyor floor YES X NO or 1/4 inch abrasion resistant steel (AR400) X YES NO

X9.15.3 2 inch diameter front and rear shafts with eight (8) tooth sprockets X YES NO

X9.15.4 Drive sprockets are double keyed to shaft X YES NO

X9.15.5 Conveyor width – 25 inches or more X YES NO

X9.15.6 Conveyor is reversible X YES NO

X9.15.7 Conveyor is driven with 25:1 planetary gearbox drives or equal on both the front and rear shafts with 5.0 CIR hydraulic motors X YES NO

One (1) motor has an integral conveyor speed sensor X YES NO

X9.15.8 Conveyor chain is D667K pintle type (24,500 lb. tensile/strand) with **minimum 3/8 inch x 1 1/2 inch conveyor crossbars welded to every link** X YES NO
EXCEEDS SPEC. 1/2" x 1-1/2"

X9.15.9 A 10 gauge 304 stainless steel bolt in pan under the conveyor to keep material off chassis frame X YES NO

X9.16 The body has the capability to convey to the front or the rear with a material spinner for distributing material:

X9.16.1 For front spreading, a front feedgate integrated into the head sheet of the body 8 inches x 24 inches

X9.16.2 A 304 stainless steel front spinner chute is mounted between chassis frame rails and with the body down be completely enclosed to prevent material from dropping on chassis drive shaft X YES NO

X9.16.3 For rear spreading, a 7 gauge 304 stainless steel 14 inch x 26 inch rear feedgate in the body tailgate X YES NO

X9.16.4 Is the rear feed gate lever operated YES X NO or screw adjustable X YES NO

Is the feedgate capable of being positively locked into position X YES NO

- X9.16.5 The front spinner bracket and chute is mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets are installed by the successful vendor YES NO
- X9.16.6 The spinner assembly is universal and may be used at front or rear YES NO
- X9.16.7 Spinner assembly is adjustable left to right, and up and down to assure accurate placement of material on spinner disc to facilitate control of spread pattern. YES NO
- X9.16.8 10 gauge 20 inch diameter spinner disc has replaceable machined hub YES NO
- X9.16.9 Is the spinner 409 or 304 stainless steel YES NO
- X9.16.10 If spinner hydraulic motor is mounted on top of spinner disc, is the motor enclosed in a removable material shedding protective cover YES NO
- X9.17 Hydraulic Hoist:
- X9.17.1 Trunnion Mount YES NO
- X9.17.2 Telescopic hoist is no less than N.T.E.A. Class 40 YES NO
- X9.17.3 Single hoist cylinder is trunnion mount YES NO
- X9.17.4 Hoist cylinder has three (3) stages with 90 inches of stroke with a four (4) inch diameter first Stage YES NO
 Manufacturer and part number: CS90-4-3 MAILHOTT
- X9.17.5 The cylinder has wear and corrosion resistant nitrided cylinder tubes YES NO
- X9.17.6 Cylinder warranty: 2 years
- X9.17.7 A five (5) degree oscillating cylinder collar protects the cylinder against side stress YES NO
- X9.17.8 The body has 6 inch x 8 inch x 1/2 inch structural angle rear hinge assembly installed in the truck chassis frame YES NO
- X9.17.9 The rear hinge assembly has cold roll steel hinge pins connecting to 2 1/2 inch hinge blocks with grease zerks YES NO
- X9.18 The following features are included:
- X9.18.1 Warning light (bed raised) control console mounted YES NO
- X9.18.2 Hydraulic oil level reading YES NO

- X9.18.3 Safety decals as required YES NO
- X9.18.4 304 stainless steel mud guards, 10 gauge x 24 inches x 30 inches permanently attached in front of rear wheels YES NO
- Will exhaust stack be aligned for body clearance YES NO
- X9.18.5 304 stainless steel shovel bracket YES NO
- X9.18.6 304 stainless steel gussets (board pockets) for 4 inch x 6 inch lumber (rough) located at front and rear and mid-rail YES NO
- 4 inch x 6 inch (rough) oak sideboards supplied and bolted through the gussets YES NO
- Painted aluminum to match the body YES NO
- X9.18.7 Does the unit have air operated tailgate with dual brake chamber air tailgate latches (one on each side) YES NO
- Pivot shafts included stainless steel bushings to eliminate seizing YES NO
- X9.18.8 1 1/2 inch 304 stainless steel grip strut walk rail installed on both sides of the body
CANNOT DO WITH PRE-WET TANKS. SEE ADDENDUM. YES NO
- X9.18.9 OSHA approved backup alarm, electronic ambient, adjusts to background noise, 112 dba shock mounted at the rear YES NO
- X9.18.10 OSHA approved body support, both sides YES NO
- X9.18.11 Unit equipped with 49,000 lb. capacity pintle hook centered between rear frame rails YES NO
- Manufacturer and Model: WALLACE B30
- Height from ground level to center line of pintle "eye": 32 inches
- X9.18.12 Air deflector-hood mounted, blue or smoke YES NO
- Deflector manufacturer's standard width for truck mode YES NO
Width: DEPENDS ON CHASSIS MAKE
- Access to front end hood tilt handle YES NO
- Extra handle YES NO
- X9.18.13 Is screen over hopper provided with 3/8 inch rod across 3/8 inch rod for 2 3/4 inch grid opening (to prevent oversize material from entering hopper during filling) YES NO

X9.18.14 Is screen frame ¼ inch by 1 ½ inch angle iron welded to rods and hinged to 5 inch I-beams
 YES NO

X9.19 Lighting: Weather/shock resistant lights LED type with average amp draw between .045 - .72
 YES NO

Manufacturer and Model: TRUCK LITE MODEL 10

All connections have sure snap plug assemblies and epoxy sealed electronics to protect against shock and vibration
 YES NO

X9.19.1 All marker lights 2 1/2 inch diameter flush mount sealed beam lights with integral reflector mounted in rubber base
 YES NO

X9.19.2 All ground wires attached with plated steel fasteners
 GROUNDED IN CHASSIS WIRING HARNESS
 YES NO

X9.19.3 Rear lights shock mounted, recessed oval stop, tail, turn, and recessed oval back up lights mounted in back post
 YES NO

Strobe lights marked and switched from dash board location
 YES NO

Make and Model: TRUCK LITE MODEL TL60250R

X9.19.4 Center rear I.D. lights three (3) located in truck chassis
 YES NO

X9.19.5 Two (2) amber oval LED strobe lights mounted at the front corners of the cab protector, and two (2) amber oval LED strobe lights mounted at each outside corner of the cab protector
 YES NO

Make and Model: TRUCK LITE MODEL 60360Y

Strobe lights marked and switched at dash board location
 YES NO

X9.19.6 Auxiliary headlights for snowplowing application shock mounted on fender of unit
 YES NO

Make and Model: TRUCK LITE MODEL 80853

X9.19.7 Two (2) oval amber LED strobe lights mounted at top of rear corner posts right and left sides and switched in combination with cab protector strobe
 YES NO

Manufacturer and Model: TRUCK LITE MODEL 603604

X9.19.8 Two (2) rear frame mounted tow hooks
 YES NO

X9.19.9 Lighted license plate bracket
 YES NO

X9.20 Are the following at the front or rear both sides of the body:

X9.20.1 304 stainless steel fold down ladder that locks into position when either in the down or up position
 YES NO

- X9.20.2 Two (2) 304 stainless grab handles YES NO
- X9.21 Tailgate (304 stainless steel): YES NO
- X9.21.1 Tailgate hinged at top, flame cut hardware, pork chop type off-set hardware to achieve maximum opening of tailgate, but has **provision for pivoting at the bottom** YES NO
- X9.21.2 Flush mount, 1/2 inch flame cut 304 stainless steel tailgate pivots YES NO
- X9.21.3 Heavy duty offset hinge plates, one (1) inch flame cut 304 stainless steel YES NO
- X9.21.4 3/4 inch 304 stainless steel latch hooks with 3/8 inch 304 stainless steel latch plates YES NO
- X9.21.5 Full perimeter 304 stainless steel boxing with all horizontal edges sloped outward YES NO
- X9.21.6 **Two (2) 10 gauge 304 stainless steel sloped horizontal braces that are flush with perimeter Boxing** YES NO
- X9.21.7 7 gauge 304 stainless steel 10-12 inch x 24-26 inch rear feedgate YES NO
- X9.21.8 Cold roll steel upper pins with grease zerks YES NO
- X9.21.9 Top hinge channel has removable, chain tethered keeper pins YES NO
- X9.21.10 Latching action at the bottom of gate operable by the truck driver without leaving the truck cab YES NO
- X9.21.11 Gate is self aligning YES NO
- X9.21.12 Tailgate lower latch pins 304 stainless steel 1 1/4 inch diameter YES NO
- X9.21.13 Body integrated or bolt on 304 stainless steel 15 inch spreader apron YES NO
- X9.22 Design and strength characteristic of the entire body such that the unit structural members and the hoisting system will not suffer any deformation, damage, or structural failure resulting from raising a distributed full payload YES NO
- X9.23 Bumper:
- X9.23.1 Bumper formed out of 1/4 inch roll steel YES NO
- Weighs 10.20 lbs. per square foot
- X9.23.2 Bumper face covers all of truck frame (12 inches) with two (2) flanges of 2.25 inches top and bottom YES NO

- X9.23.3 Overall width of bumper: 94 inches
- X9.23.4 Bumper 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.
- X9.23.4.1 Does bumper have two (2) access holes for utilization of tow hooks YES NO
- X9.23.5 Upper and lower flanges cut and welded solid at point where bumper is bent and ground off smooth YES NO
- X9.23.6 Bumper mounted by two (2) mounting angles bolted to front of truck frame with two (2) 5/8 inch bolts each side YES NO
- X9.23.7 Mount angle 3/8 inch x 3 inches x 8 long with four (4) 5/8 inch holes YES NO
- X9.23.8 Paint on front bumper: BLUE 82-5802
- X9.24 Underbody Tool Box:
- X9.24.1 One (1) tool box mounted under body on right side frame rail YES NO
- X9.24.2 Tool box 18 inches high, 24 inches wide, 18 inches deep cradled by a heavy steel angle frame attached to the truck frame YES NO
- X9.24.3 **Construction** 14 gauge, A60 galvaneal steel with all seams welded YES NO
- X9.24.4 Tool box has horizontal hinged fold down door YES NO
- X9.24.5 Tool box door has cable or chain to hold the door in a horizontal position YES NO
- X9.25 Load covering system electrically or air controlled YES NO
- X9.25.1 Electric motor assembly includes 12 volt direct drive motor with forward and reverse action, cab mounted control switch, resettable circuit breaker YES NO
- X9.25.2 Pivot arm assembly constructed in a two (2) piece bent arm configuration of 1.25 inch 14 gauge steel tubing YES NO
- X9.25.3 **Bent arm extensions constructed of** 1 inch 14 gauge steel tubing
- X9.25.4 Rear cross constructed of 1.25 inch 14 gauge steel tubing

- X9.25.5 Pivot arm rests included YES NO
- X9.25.6 Underbody spring extension spring 12 inches in length attached to base of pivot arm and of body with articulating spring mounting bracket YES NO
- X9.25.7 All steel components finished with manufacturer's recommended rust preventative system with **adequate primer and paint** YES NO
- X9.25.8 Steel cab protector mounted triple bend wind deflector provided YES NO
- X9.25.9 Load covering system provided with a 18 oz. black vinyl tarp to fit 14 foot 6 inch body YES NO
- X9.25.10 Load covering system supplied with all necessary hardware and delivered to the West Virginia Division of Highways as a complete and operational unit. YES NO

X9.26 Paint: Describe proposed method of painting

X9.26.1 - X9.26.4

NO PAINT ON STAINLESS STEEL PARTS

FRONT BUMPER PAINTED BLUE

X9.27 Detail/Decorative Stripes with Logo:

Will striping and detailing you provide comply with requirements of Section 9.27.1 through 9.27.7

YES NO

X9.28 All body features considered as standard, but not specifically addressed:

INCLUDED

X9.29 Does the proposed unit meet or exceed the "OSHA OF 1970" and/or subsequent changes

YES NO

X10.0 SPECIFICATIONS - CENTRAL HYDRAULIC SYSTEM

Is the central hydraulic system designed to operate the following:

A front mounted telescopic dump body hoist cylinder, a hydraulically driven integrated salt and abrasive spreader system requiring the simultaneous operation of two (2) hydraulic motors in two (2) different modes with conveyor reverse, a single acting snowplow lifting cylinder, a snowplow power angle system, and an auxiliary equipment drive circuit YES NO

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

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: 13 years

Manufacturer, model, series, and date of manufacture of proposed central hydraulic system:

COMPONENT TECHNOLOGY SG03040008 WEST VIRGINIA.

SYSTEM MANUFACTURED AS REQUIRED FOR CONTRACT.

Is descriptive literature full describing proposed central hydraulic system 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 AT TIME OF DELIVERY

Pre-Wet system:

Does spreader control contain the ability to control a closed loop pre-wet system YES NO

Does system operate using a flow meter feedback circuit YES NO

Does controller software allow for adjustability of pre-wet output by operator, presented in gallons per to Ton YES NO

Is information related to pre-wet application rate and total flow in gallons displayed on the screen while Pre-wet system is active YES NO

Will central hydraulic system have minimum 2 year basis warranty including parts and labor excluding abuse and normal wear items YES NO

X10.1 Pump System:

- X10.1.1 Pump: Variable volume pressure compensated load sensing axial piston type
 YES NO
- X10.1.2 Front mounting flange and main housing/case of cast iron construction YES NO
 Inlet and outlet port section of high strength ductile iron with SAE split flange 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 type or ORB side mounted for direct bolt mounting of solenoid shut down valve assembly
 YES NO
- X10.1.5 Case drain and load sense signal ports of the SAE O-ring type YES NO
 Case drain line taken directly to tank without passing through the return line filter
 YES NO
- X10.1.6 **Input shaft has 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
 SAE "C" keyed YES NO
- X10.1.7 Front input shaft bearing heavy duty ball or roller type designed for high axial and radial loading
 YES NO
 Rear shaft bearing of the high speed and load sleeve type design YES NO
 Bearings fully lubricated by flooded case oil YES NO
- X10.1.8 Ramp/swashplate supported by pressure lubricated bearings of the rocker cam or saddle type for high piston load support
 YES NO
 Ramp angle positioning by means of dual servo control cylinders for rapid pump response and precise pump output control
 YES NO
- X10.1.9 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 design and components provide flow, pressure and performance requirements with a maximum operating load sense differential pressure of 300 PSI and a maximum standby pressure of 350 PSI for maximum efficiency.
If pilot control shifted valving is used, is it designed to be fully functional within this pressure range X YES NO
- X10.1.9.2 High pressure compensator valve preset to limit the maximum pump output pressure to maximum required operating pressure plus load sense differential and margin pressure to prevent premature de-stroking of ramp resulting in reduced or insufficient pump output X YES NO
- X10.1.10 Pump Output: Is it capable of providing hoist cylinder extension required for a 50 degree Body dump angle in 13 seconds at 1500 engine RPM at a 1000 PSI system load X YES NO
- X10.1.11 Is the make and model bid in compliance with overall quality of construction, design, and performance of the pump supplied X YES NO
- X10.1.12 Pump:
Manufacturer and Model: REXROTH A10V071 SERIES 31
- X10.1.13 Is pump manufacturers 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 Normally closed, energize 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 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 position
Nominal valve rating 50 GPM at 3500 PSI
- X10.2.4 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 from damage when the system is shut down at high pressure and flow operation X YES NO
- X10.2.6 Valve manufacturer and model: CERTIFIED POWER IVC.
- X10.2.7 Central control console mounted audio alarm and warning lamp indicating pump pressure/flow shutdown X YES NO
- X10.2.8 Warning lamp press-to-test light 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 connection X YES NO
- X10.2.9 A console mounted electrical override function switch provided to allow momentary operation of hydraulic functions in emergency situations X YES NO
- X10.3 Directional Control Valve Assembly:
- X10.3.1 Valve stacked section type and of closed center circuit design X YES NO
- X10.3.2 Each work section pressure and flow compensated with fully integrated load sense network X YES NO
- Flow output is relative to spool travel with preset maximum flow rate obtained at maximum spool stroke providing feathering control of operated function X YES NO
- X10.3.3 Dump body, snowplow lift, and snowplow power angle section of the manual cable shift type X YES NO
- Auxiliary circuit section of the electric solenoid shift type X YES NO
- Both ends of each section valve spool sealed with weather resistant caps or cable entry bonnets X YES NO
- X10.3.4 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 X YES NO
- X10.3.5 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 X YES NO

- X10.3.6 Pressure compensation of the spinner and auger sections and also a priority section installed to allow for operation of the plow hoist in any circumstance YES NO
- X10.3.7 Main pressure inlet relief valve provided to reduce system pressure shock loads 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 YES NO
- X10.3.8 If pilot pressure reducing valve is required for solenoid section control, design meets operating requirements as set forth in Section 10.1.9.1 YES NO
- Pilot supply and tank venting internal within the valve assembly section YES NO
- X10.3.9 Load sense network high pressure relief provided and preset to limit system maximum operating pressure YES NO
- Set point provides proper pressure margin to pump pressure compensator and high pressure relief valve as to prevent premature loss of required flow rates and pressure capability YES NO
- X10.3.10 SAE #6 gauge port equipped with Parker Hannifin PD361 diagnostic coupling nipple with protective cap for load sense testing to be installed in an easily accessible location YES NO
- X10.3.11 Dump body control section 3-way three (3) position spring centered cylinder spool for operation of a single acting hoist cylinder YES NO
- X10.3.11.1 Full flow workport relief valve installed in power up port YES NO
- Set point to prevent operating pressure from exceeding hoist cylinder normal operating pressure rating YES NO
- X10.3.11.2 Flow limiting system preset at required flow rates provides performance as stated in Section 10.1.10 as maximum for dump body up and down to reduce system over demand operation YES NO
- X10.3.12 Snowplow lift control section is 3-way three (3) position spring centered cylinder spool with float detent for operation of a single acting lift cylinder with pilot controlled load lock valve YES NO
- Does the valve design require a load holding check valve to properly carry the plow weight YES NO
- X10.3.12.1 Full flow workport relief valve preset at maximum required unlock pressure installed in power down workport YES NO

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

Is a three (3) way valve provided for plow hoist circuit

YES NO

X10.3.12.2

Adjustable flow control installed to limit downward speed of snowplow

YES NO

Flow limiting control system preset for proper plow lift speed to be supplied to reduce over demand operation and to increase system efficiency

YES NO

X10.3.13

Snowplow power angle control section is 4 way three (3) position spring centered motor spool for operation of worm gear driven type reversing system

YES NO

SEE ADDENDUM

X10.3.13.1

Flow limiting control system preset for proper plow reversing speed to be supplied to reduce over demand operation and to increase system efficiency

YES NO

X10.3.14

Auxiliary equipment drive circuit control section 3-way three (3) position spring centered solenoid operated motor spool

YES NO

Is the circuit separate and distinct from the spreader control system

YES NO

X10.3.14.1

Flow limiting control system preset to provide 22 GPM at a system load pressure of 2200 PSI.

Pump is capable of supplying this flow rate with engine speed of 1173 RPM

YES NO

X10.3.14.2

Is an inline mounted control valve supplied for this operation in place of directional control valve section

YES NO

If supplied, is proper interconnections and venting of load sense network system provided

YES NO

X10.3.14.3

Is pressure line 3/4" SAE 100R2 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

X10.3.14.4

Manufacturer and model of directional and auxiliary circuit valves:

REXROTH MP-18 SERIES

- X10.3.15 Is directional control valve assembly with tank in an enclosure to protect it from the elements X YES NO
- X10.3.16 Pre-Wet Circuit:
- X10.3.16.1 Is a separate circuit provided to control an add-on pre-wet system X YES NO
- X01.3.16.2 Is the hydraulic valve of the sectional type YES OR of the cartridge style contained in a manifold X YES
- X10.3.16.3 Is a manifold type valve supplied X YES NO Is it attached to the main valve assembly X YES NO
- X10.3.16.4 Is all wiring to the pre-wet hydraulic circuit provided as part of the system X YES NO
- X10.3.16.5 Is the wiring to control console related to the rest of the pre-wet system (low level float, flow meter connection, etc.) provided as part of the pre-wet package at the time of pre-wet system install X 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 X YES NO
- Are overrides manually adjustable over operating flow range in the event of electrical system failure X YES NO
- X10.4.2 Flow control circuits are pressure compensated X YES NO
- Provides spinner flow rate of 7 GPM and a conveyor flow rate of 15 GPM
- Pressure relief valve system limit circuits to 2200 PSI
- X10.4.3 Load sense circuits connected to directional control valve network for proper pump control X 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 X YES NO
- X10.4.4 Is PWM solenoid control supplied by microprocessor spreader control system X YES NO
- Are solenoids capable of 100% PWM signal without failure X YES NO
- X10.4.5 Solenoid operated directional control valve and in-cab mounted electrical switch operates spreader conveyor reverse required for front or rear material discharge selection provided X YES NO

- X10.4.6 Is electrical switching and indicator light for spreader clogged indication provided YES NO
- X10.4.7 **Manufacturer and model of valve:** REXROTH MP-18 SERIES
- X10.5 **Spreader Control System:**
- X10.5.1 Dual flow, ground speed oriented spreader control system of the closed loop microprocessor based type with nonvolatile control memory YES NO
- X10.5.2 Automatic calibration and flexibility of programming YES NO
- X10.5.3 **System is 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 Automatic switchover with display indication from closed loop to open loop operation in the event of loss of feed rate sensor signal is provided YES NO
- X10.5.5 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 Programming and output cable connection for material and trip information printer and program uploading is provided YES NO
- X10.5.7 Control unit capable of accumulating display information up to 999,999 miles and 999,999 tons of discharged material YES NO
- X10.5.8 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 A variable digital access code lockout for application rate selection and for system operating parameters is provided YES NO
- Is it a key switch YES NO
- X10.5.10 **Backlighted switches and LCD screen 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 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 Is truck speed sensor compatible with type of speedometer drive system supplied on chassis YES NO
- X10.5.15 Is a built-in ground speed simulator provided either internal to the control or located in the control console YES NO
- X10.5.16 Are all components required for proper installation and operation of control system onto truck and spreader units supplied YES NO
- X10.5.17 Manufacturer and model of proposed control system :
COMPONENT TECHNOLOGY SG51/SG53 WITH GL400 CONTROL
-
- X10.6 Central Control Console:
- X10.6.1 Mounted between seats within easy access of the driver YES NO
- X10.6.1.1 Is warning light (bed raised) control console mounted YES NO
- X10.6.2 Will 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 function and operation YES NO
- X10.6.3.1 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
- X10.6.3.3 Is cable to valve connection of the weather resistant bonneted type YES NO
- X10.6.3.4 Is hoist control lever OSHA compliant (hoist interlock) YES NO
- X10.6.4 Are 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 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 Relay 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 Hydraulic reservoir 40 gallon operated capacity flex mounted to the chassis frame rail and valve enclosure assembly YES NO
- X10.7.2 Tank constructed of 7 gauge 304 stainless steel YES NO
- X10.7.3 Tank equipped with a combination oil level sight glass and thermometer YES NO
- X10.7.4 Tank equipped with a pressurized ten (10) micron filler/breather cap with removable 500 micron strainer YES NO
- X10.7.5 Is an internal steel baffle provided within the tank YES NO
- X10.7.6 Tank stenciled with minimum of 1 1/2" high "Hydraulic Oil" YES NO
- X10.7.7 Tank level switch connection "SO" type wiring and mounted within tank/valve enclosure to protect it from elements YES NO
- X10.7.8 Pump supply suction port 2 inches NPT and system return port 1.25 inches NPT
- X10.8 Filtration:
- X10.8.1 Manufacturers standard filtration to adequately protect the hydraulic system from damage YES NO
- X10.8.2 Return line filter isolated from reservoir by a full flow non-restrictive type quarter turn brass ball valve if filter is not installed in the reservoir YES NO
- X10.8.3 NOT APPLICABLE - FILTER IS IN TANK
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 **One (1) extra replacement filter for each assembly is provided for each truck** YES NO
- X10.8.5 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 Each hose assembly (hose with hose ends) except for suction hose is fitted with JIC swivel connections on ends where connection to system component is made YES NO
- X10.9.2 All pressure line hoses meet or exceed SAE Specification 100R2 and are equal to Gates high pressure hose, type C2AT for sizes up to and including 1 inch ID YES NO

- X10.9.3 Suction hose 2 inch nominal ID and meet SAE Specification 100R4, braided fiber, spiral wire reinforced, rubber covered hose with replaceable bolt-on type fittings YES NO
- X10.9.4 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 **Snap tite quick disconnects (manifold mounted) supplied for the forward and rear spinner 1/2 Inch pressure and return lines** YES NO
- X10.9.7 Are all fittings and connectors steel type designed for high pressure hydraulic system use YES NO
- X10.9.8 Pipe thread ported components and connectors are only used when the specific component is not available with SAE or JIC porting YES NO
- X10.9.9 Are all pipe thread connectors used coated with liquid Teflon pipe sealer prior to assembly YES NO
- X10.9.10 Hoses that run to the front of truck chassis for snowplow functions are manifold mounted behind the front bumper with sufficient access for pump service and snowplow hitch installation YES NO
- X10.9.11 Are snowplow lines equipped with complete 1/2 inch "VH" series Snap-tite quick disconnects (coupler and nipple supplied) and metal caps and plugs YES NO

X10.10 Items not specifically stated but are necessary for proper system installation and operation are supplied and comply with recommended hydraulic industry standards:

X10.11 Will initial servicing and pre-testing of hydraulic system be included for:

- X10.11.1 Initial fill of reservoir with a high grade 32 AW hydraulic fluid to approximately 40 gallon level, marked on sight glass YES NO
- X10.11.2 Start-up and initial run of hydraulic system, checking for leaks, excessive heat, system efficiency YES NO
- Will you replace any defective component YES NO
- Will you cover any defects discovered at time of plow installation if equipment is not available at time of initial test of plow circuits YES NO

X10.11.3 Refill reservoir to the 40 gallon operating level YES NO

X10.12 If any hydraulic lines are located within 10 inches of exhaust system are they metal lines and insulated YES NO

X10.13 Are 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 format attached with your bid YES NO

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

X10.15 Explain your training sessions with each purchase order (based on a purchase 1-25 units) covering the operation, maintenance, trouble shooting and calibration/programming of the hydraulic system and spreader controls and where will they be held:

THREE (3) ONE (1) DAY TRAINING SESSIONS PER PURCHASE ORDER.

PREBID ADDENDUM #3
OPEN END CONTRACT
709EC011

CHANGES TO BIDDER'S EVALUATION REPORT:

FROM:

TITLE: 33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

TO:

TITLE: MINIMUM 33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

NO CHANGE REQUIRED:

1.0 PURPOSE

NO CHANGE REQUIRED:

X4.2.2 Delivery date of balance of completed units: _____ calendar days after receipt of purchase agreement

NO CHANGE REQUIRED:

X4.2.1 Delivery date of completed representative unit: _____ calendar days after receipt of purchase agreement

NO CHANGE REQUIRED:

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

Cab and Chassis: _____

Dump Body: HENDERSON MUNI II - WV 09

Piston Pump Hydraulics: COMPONENT TECHNOLOGY SG03040008 WV

Is descriptive literature, fully describing proposed unit attached to your bid?

X YES NO

If not, why? _____

FROM:

X8.1 GVW plate rating: _____ lbs.

TO:

X8.1 GVW plate rating: _____ lbs.

LEAVE AS WRITTEN:

X8.3 Wheelbase: _____ inches, set forward design for our snowplow applications
_____ YES _____ NO

LEAVE AS WRITTEN:

X8.4.3 Is the truck chassis frame rails free of obstructions inside the frame rails and
along the left outside frame rail 23 inches to 38 inches from the back of the
cab for installation of the spinner chute _____ YES _____ NO

FROM:

X8.5 Cab: Is cab manufacturer's standard steel and/or fiberglass and/or aluminum with
premium or manufacturers highest level interior trim with inside noise level rating not to
exceed 80 dba in compliance with Federal regulations _____ YES _____ NODoes it have an ambient temperature display for outside temperature
_____ YES _____ NO

Is hood a tilt hood and fenders either steel and/or fiberglass _____ YES _____ NO

Is rear air bag suspension provided _____ YES _____ NO

Inner fender panels that are adequate to keep materials from engine compartment
_____ YES _____ NO

TO:

X8.5 Cab: Is cab manufacturer's standard steel and/or fiberglass and/or aluminum with
premium or manufacturers highest level interior trim with inside noise level rating not to
exceed 80 dba in compliance with Federal regulations _____ YES _____ NODoes it have an ambient temperature display for outside temperature
_____ YES _____ NO

Is hood a tilt hood and fenders either steel and/or fiberglass _____ YES _____ NO

Inner fender panels that are adequate to keep materials from engine compartment
_____ YES _____ NO

LEAVE AS WRITTEN:

X8.5.2 Seats:
Driver – Fully adjustable high back with head rest, air rides, bucket style; seat includes air lumbar, hip bolsters, side bolsters, and back bolsters, with full cloth on entire seat _____ YES _____ NO

FROM:

X8.5.7.8 **Manufacturers stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount** _____ YES _____ NO
Bug screen provided behind grille _____ YES _____ NO

TO:

X8.5.7.8 **Manufacturer shall provide for stationary grille, grille with cutout area, or a hood which tilts for easy access to the engine to allow tilt hood to clear snow plow mount** _____ YES _____ NO
Bug screen provided behind grille _____ YES _____ NO

DELETE:

X8.5.7.11 Does unit include kit for front mounted CB radio and all power and ground wiring to include co-ax cable, antenna, speaker, etc. **DELETE**
All cable and wiring routed using grommets and wire looms **DELETE**

Radio make and model: **DELETE**

LEAVE AS WRITTEN:

X8.6 Engine:
Make: _____ Model: _____
_____ HP Torque @ _____ lb. ft.

LEAVE AS WRITTEN:

X8.6.2 Fuel heater/water separator mounted inside engine compartment _____ YES _____ NO
Manufacturer: _____

NO CHANGE REQUIRED:

X8.7.1 Is cooling system capable of maintaining engine temperature within the manufacturers recommended range during continuous winter/summer operation YES NO

Does unit provide an automatic "on-off" fan drive with nylon fan blades YES NO

Manufacturer: _____

FROM:

X8.7.3 Does the radiator provide adequate clearance to facilitate the installation of a crankshaft driven PTO drive shaft YES NO

The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft is _____ inches to insure adequate clearance for PTO drive shaft

Radiator and heater hoses are silicone type or approved equivalent with constant torque clamps or equivalent utilized on radiator hoses to minimize cold water leaks YES NO

TO:

X8.7.3 Does the radiator provide adequate clearance to facilitate the installation of a crankshaft _____ or transmission _____ driven PTO drive shaft YES NO

The distance between the extreme tip of the radiator fan blade and the centerline of the crankshaft is _____ inches to insure adequate clearance for PTO drive shaft

Radiator and heater hoses are silicone type or approved equivalent with constant torque clamps or equivalent utilized on radiator hoses to minimize cold water leaks YES NO

NO CHANGE REQUIRED:

X8.8.1 Capacity: _____ US gallons. Does tank comply with FMVSS YES NO

Filler cap is chain tethered YES NO

NO CHANGE REQUIRED:

X8.9.2.1 Cold Crank AMPS _____ AMPS with sealed terminals

LEAVE AS WRITTEN:

X8.9.6.4 Will manufacturer provide body builder circuits – three (3) 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 20 amps per channel, 8- amps maximum output
_____ YES _____ NO

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

FROM:

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting frame mounted approximately 85 gallon poly liquid tanks
_____ YES _____ NO

Will the body be designed to allow maximum protection to the tanks
_____ YES _____ NO

TO:

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting fender mounted approximately 75 gallon poly liquid tanks
 YES _____ NO

Will the body be designed to allow maximum protection to the tanks
 YES _____ NO

LEAVE AS WRITTEN:

X9.12 Is the body a unibody design – no crossmember YES _____ NO

FROM:

X9.12.1 The body has one (1) piece sides and floor which incorporates a sloping floor to side radius to adequately feed material to the conveyor chain YES NO

TO:

X9.12.1 Does the body have one (1) piece sides and floor which incorporates a sloping floor to side radius X YES NO

Degree of slope to adequately feed material to the conveyor chain 35 °

LEAVE AS WRITTEN:

X9.13 The boxed top rail is sloped inward to shed debris X YES NO

FROM:

X9.14 Full length 304 stainless steel integral rear fenders which incorporate prewet liquid reservoirs (85 gallon) YES NO

TO:

X9.14 Full length 304 stainless steel integral rear fenders which incorporate prewet liquid reservoirs (75 gallon) X YES NO

LEAVE AS WRITTEN:

X9.15.5 Conveyor width – 25 inches or more X YES NO

LEAVE AS WRITTEN:

X9.15.7 Conveyor is driven with 25:1 planetary gearbox drives or equal on both the front and rear shafts with 5.0 CIR hydraulic motors X YES NO

One (1) motor has an integral conveyor speed sensor X YES NO

DELETE:

X9.16.3 For rear spreading a (DELETE) gauge 304 stainless steel (DELETE) x (DELETE) inch rear feedgate in the body tailgate

FROM:

X9.16.5 The front spinner bracket and chute is mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets are installed by the successful vendor YES NO

TO:

X9.16.5 Is the front spinner bracket and chute mounted to the truck chassis frame and installed by successful vendor YES NO

FROM:

X9.16.6 The spinner assembly is universal and may be used at front or rear YES NO

TO:

X9.16.6 The spinner is universal and mounted at the front for delivery and may be used at front or rear YES NO

LEAVE AS WRITTEN:

X9.16.9 Is the spinner 409 or 304 stainless steel YES NO

LEAVE AS WRITTEN:

X9.17.1 Trunnion Mount YES NO

FROM:

X9.17.4 Hoist cylinder has three (3) stages with inches of stroke with a four (4) inch diameter first stage YES NO
 Manufacturer and part number: _____

TO:

X9.17.4 Single acting hoist cylinder has three (3) stages with 90 inches of stroke with a four (4) inch diameter first stage YES NO

Manufacturer and part number: CS90-4-3 MAILHOT

LEAVE AS WRITTEN:

X9.17.7 A five (5) degree oscillating cylinder collar protects the cylinder against side Stress YES NO

LEAVE AS WRITTEN:

X9.18.7 Does the unit have air operated tailgate with dual brake chamber air tailgate latches (one on each side) X YES NO

Pivot shafts included stainless steel bushings to eliminate seizing X YES NO

DELETE:

X9.18.8 1 ½ inch 304 stainless steel grip strut walk rail installed on both sides of the body (DELETE)

FROM:

X9.25.9 Load covering system provided with a oz. black vinyl tarp to fit 14 foot 6 inch body YES NO

TO:

X9.25.9 Load covering system provided with a 18 oz. black vinyl tarp to fit 10 foot body X YES NO

FROM

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

TO:

X10.3.13 Snowplow power angle control section is 4 way three (3) position spring centered cylinder spool for operation of a power angle plow X YES NO

PREBID ADDENDUM #3
OPEN END CONTRACT
709EC011

CHANGES TO BIDDER'S EVALUATION REPORT:

FROM:

TITLE: 33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

TO:

TITLE: MINIMUM 33,000 GVW CAB AND CHASSIS, STAINLESS STEEL DUMP BODY, AND PISTON PUMP HYDRAULIC SYSTEM

NO CHANGE REQUIRED:

1.0 PURPOSE

NO CHANGE REQUIRED:

X4.2.2 Delivery date of balance of completed units: 90 calendar days after receipt of purchase agreement

NO CHANGE REQUIRED:

X4.2.1 Delivery date of completed representative unit: 120 calendar days after receipt of purchase agreement

NO CHANGE REQUIRED:

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

Cab and Chassis: INTERNATIONAL 7300 SFA HX2

Dump Body: _____

Piston Pump Hydraulics: _____

Is descriptive literature, fully describing proposed unit attached to your bid?

YES NO

If not, why? _____

LEAVE AS WRITTEN:

X8.5.2 Seats:
Driver – Fully adjustable high back with head rest, air rides, bucket style; seat includes air lumbar, hip bolsters, side bolsters, and back bolsters, with full cloth on entire seat _____ YES _____ NO

FROM:

X8.5.7.8 Manufacturers stationary grille or grille with cutout area to allow tilt hood to clear snow plow mount YES _____ NO
Bug screen provided behind grille YES _____ NO

TO:

X8.5.7.8 Manufacturer shall provide for stationary grille, grille with cutout area, or a hood which tilts for easy access to the engine to allow tilt hood to clear snow plow mount YES _____ NO
Bug screen provided behind grille YES _____ NO

DELETE:

X8.5.7.11 Does unit include kit for front mounted CB radio and all power and ground wiring to include co-ax cable, antenna, speaker, etc. DELETE
All cable and wiring routed using grommets and wire looms DELETE
Radio make and model: DELETE

LEAVE AS WRITTEN:

X8.6 Engine:
Make: INTERNATIONAL Model: DT466
255 HP Torque @ 660 lb. ft.

LEAVE AS WRITTEN:

X8.6.2 Fuel heater/water separator mounted inside engine compartment _____ YES _____ NO
Manufacturer: _____

NO CHANGE REQUIRED:

X8.9.2.1 Cold Crank AMPS 1950 AMPS with sealed terminals

LEAVE AS WRITTEN:

X8.9.6.4 Will manufacturer provide body builder circuits – three (3) 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 20 amps per channel, 8- amps maximum output YES NO

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

FROM:

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting frame mounted approximately 85 gallon poly liquid tanks YES NO

Will the body be designed to allow maximum protection to the tanks YES NO

TO:

X9.8.7 For future potential pre-wet application, will the combination body be capable of accepting fender mounted approximately 75 gallon poly liquid tanks YES NO

Will the body be designed to allow maximum protection to the tanks YES NO

LEAVE AS WRITTEN:

X9.12 Is the body a unibody design – no crossmember YES NO

FROM:

X9.16.5 The front spinner bracket and chute is mounted to the truck chassis frame and for rear spreading capability the rear spinner chute and brackets are installed by the successful vendor YES NO

TO:

X9.16.5 Is the front spinner bracket and chute mounted to the truck chassis frame and installed by successful vendor YES NO

FROM:

X9.16.6 The spinner assembly is universal and may be used at front or rear YES NO

TO:

X9.16.6 The spinner is universal and mounted at the front for delivery and may be used at front or rear YES NO

LEAVE AS WRITTEN:

X9.16.9 Is the spinner 409 or 304 stainless steel YES NO

LEAVE AS WRITTEN:

X9.17.1 Trunion Mount YES NO

FROM:

X9.17.4 Hoist cylinder has three (3) stages with inches of stroke with a four (4) inch diameter first stage YES NO
 Manufacturer and part number: _____

TO:

X9.17.4 Single acting hoist cylinder has three (3) stages with inches of stroke with a four (4) inch diameter first stage YES NO

Manufacturer and part number: _____

LEAVE AS WRITTEN:

X9.17.7 A five (5) degree oscillating cylinder collar protects the cylinder against side Stress YES NO

Effective with vehicles built January 1, 2007 or later.

OBTAINING SERVICE

Return this vehicle to any International Truck Dealer authorized to service this model vehicle and engine

DISCLAIMER

NO WARRANTIES ARE GIVEN BEYOND THOSE DESCRIBED HEREIN. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. THE COMPANY SPECIFICALLY DISCLAIMS WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OTHER REPRESENTATIONS TO THE USER/PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES. THE COMPANY FURTHER EXCLUDES LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF THE COMPANY OR SELLER. No person is authorized to give any other warranties or to assume any liabilities on the Company's behalf unless made or assumed in writing by the Company; and no other person is authorized to give any warranties or to assume any liabilities on the seller's behalf unless made or assumed in writing by the seller.

Remedies Under State or Provincial Law: Some States and Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to the owner. This warranty gives the owner specific legal rights, and he may also have other legal rights which may vary by state or province.

RECORD OF OWNERSHIP

Upon receipt of new vehicle by original owner, complete the following: I have read this Warranty Brochure and fully understand the warranty coverage, and the limitations and exclusions. I acknowledge that I have received a copy of the Owner's Limited Warranty and I accept the terms described herein.

Customer Signature	_____	Date	_____
Owner's Address	_____	City	_____
		State/Prov	_____
		Postal Code	_____
Truck Model	_____	Vehicle Identification Number	_____
Engine Number	_____	Engine Serial Number	_____
Date Delivered to User (DTU)	_____	Odometer Reading at Delivery	_____

IMPORTANT: The information contained in this Warranty Policy explains the coverage provided on your new Navistar, Inc. vehicle. This policy should be kept in the vehicle for presentation to the Dealer when you request warranty services.

LIMITED WARRANTY
FOR MEDIUM DUTY 1000, 7300/7400 4X2

BASIC VEHICLE

Navistar, Inc., at its option, will repair or replace any part of this vehicle which proves defective in material or workmanship, in normal use and service, with new or ReNEWed® parts, for the time period listed, from new vehicle delivery date, regardless of distance traveled. Exceptions are listed herein under *What Is Not Included Under Basic Coverage*.

This warranty is automatically transferred to subsequent owners at no charge, except provisions relating to Emergency Breakdown Service (EBS), as described in Paragraph 1, 1, which is valid for the first customer only.

COMPONENT COVERAGE

The components described below are given **additional** warranty coverage of variable time periods and distance traveled limitations, as shown in the *Warranty Coverage Schedule*.

1. Frame Side Rails.
2. Cab/Cowl Structure (on-highway applications).
3. The Cab/Cowl is warranted against perforation due to corrosion, except for perforation caused by industrial chemicals and/or corrosion caused by use in a corrosive industrial environment.
4. Navistar Diesel Engines including: block, cylinder heads, fuel pump, high pressure pump, turbocharger, internally lubricated components, and water pump, electronic modules, relays, sensors and regulators required for electronic engine operation. Injectors/nozzles are covered for 12 months/unlimited mileage. Excluded are attaching accessories (e.g., fan clutch, alternator, starter, etc.), thermostats, and externally mounted electrical and filtration systems.

Note: The customer has 180 days from DTU (delivery to end user) to purchase any extended warranty on the unit. See your local International dealer for details

WARRANTY COVERAGE SCHEDULE

Items Covered	Months	Miles/Km (000)
BASIC VEHICLE COVERAGE		
Basic Vehicle Warranty (Feature 40AAW)	24	Unlimited
COMPONENTS		
Frame side rails	60	Unlimited
Frame side rails 73/7400 ONLY	84	Unlimited
Cab/cowl structure	60	Unlimited
Cab/cowl perforation corrosion	60	Unlimited
ENGINE		
Fire Trucks, Ambulances, Emergency Rescue application only		
MaxxForce™ 9 Engine	60	100/160
MaxxForce™ DT Engine	60	100/160
Non-Rescue Applications		
MaxxForce™ 9 Engine	36	150/240
MaxxForce™ DT Engine	36	150/240
MaxxForce™ 7 Engine glow plugs, relay, harness/connector	12	Unlimited
MaxxForce™ 7 Engine	36	150/240
DRIVE TRAIN		
Eaton/Fuller 6206/6306 Transmission	24	Unlimited
Spicer Axles & Propshaft, Eaton Clutch, TTC Transmission	24	Unlimited

WHAT IS NOT INCLUDED UNDER BASIC COVERAGE

AFTER THE FIRST 90 DAYS FROM DELIVERY TO USER (DTU):

- Correction of loose fasteners, squeaks, rattles and unusual noises.
- Towing.
- Adjustments and maintenance (e.g., aim headlights, adjust brake/clutch, adjust steering system, check and fill coolant levels).

COMPONENTS / ITEMS:

- Warranted by their respective manufacturers (e.g., non-Navistar brand engines, tires & tubes, Allison Transmissions, lubricants, etc.)
- Bodies, equipment, and accessories installed by other than authorized Navistar Truck employees at Navistar Truck manufacturing plants.
- Front and rear axle alignment.

- Maintenance-related items/repairs, or those as a result of normal wear and tear, including tune-ups, brake/clutch linings, windshield wiper blades, tire balancing, lubrication and other similar procedures/parts required to keep vehicle in good working condition.
- Vehicle misuse, negligent care, improper maintenance, improper operation, or the result of accident or collision.
- Fade, runs, mismatch or damage to paint, trim items, upholstery, chrome, polished surfaces, etc., resulting from environmental causes, improper polishes, cleaners or washing solutions, or chemical and industrial fallout.
- Failure to observe published capacity or load specifications for engine, transmission, propshaft, axles (power train) and suspension.

OTHER:

- Vehicles sold and/or operated outside the United States and Canada.
- Vehicles/components which have had unauthorized alterations or modifications.
- Vehicles on which the odometer reading has been altered.
- Loss of time or use of the vehicle, loss of profits, inconvenience, or other consequential or incidental damages or expenses.
- Replacement of defective parts with parts other than those provided by Navistar, Inc

EBS Support Coverage - Addendum I

I. Coverage Period

1. The Emergency Breakdown Service (EBS) is valid for as long as the first purchaser owns, or the first purchaser's lessee is using, the vehicle. Emergency Breakdown Service 1-888-DJA-7800.

II. Navistar Responsibilities

1. Under Emergency Breakdown Service, Navistar will waive the per incident fee typically associated with providing this breakdown service.

III. Owner and/or Operator Responsibilities

1. To qualify for Emergency Breakdown Service, the customer must arrange, in advance, payment terms for any work performed on the vehicle not otherwise covered under the vehicle warranty.
2. At all times the owner is responsible for the proper use and routine maintenance of their own vehicle, as specified in the vehicle owner's manual.

IV. Limitations

Emergency Breakdown Service will not be provided in the event of strike, riot, fire, force majeure, or state of emergency weather conditions, which preclude fulfillment of those responsibilities outlined in Section II. In these events, no compensation will be offered.