

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS  
NO. 020-1-O

OPEN END CONTRACT  
FIXED ANGLE ONE-WAY SNOWPLOW

NOTE TO BIDDER: Procurement Specification No. 020-1-O, 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.: \_\_\_\_\_

Bidder's Name: \_\_\_\_\_

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

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

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

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

X3.2 Have you complied with all mandatory specifications? \_\_\_\_\_ YES \_\_\_\_\_ NO

X4.2 DELIVERY:

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

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

X5.0 AWARD CRITERIA;

**X5.1 Price per unit:**

\_\_\_\_\_per unit

X6.0 SPECIFICATIONS - GENERAL

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

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

If not, why?\_\_\_\_\_

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

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

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

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

X6.2  
2-10-00

**EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE**

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

DESCRIPTION: \_\_\_\_\_ MAKE: \_\_\_\_\_

MODEL: \_\_\_\_\_ YEAR: \_\_\_\_\_ PURCHASE AMOUNT: \_\_\_\_\_

ENGINE: MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_ FUEL TYPE: \_\_\_\_\_

HORSEPOWER: \_\_\_\_\_ CYLINDER: \_\_\_\_\_ ENGINE SERIAL: \_\_\_\_\_

COOLING SYSTEM CAPACITY: \_\_\_\_\_

BELTS: DESCRIPTION: \_\_\_\_\_ PART NUMBERS: \_\_\_\_\_

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

GVW: \_\_\_\_\_ AXLE CAPACITY: FRONT: \_\_\_\_\_ REAR: \_\_\_\_\_

TIRES: FRONT MAKE & SIZE: \_\_\_\_\_

REAR MAKE & SIZE: \_\_\_\_\_

DIMENSIONS OF UNIT: LENGTH: \_\_\_\_\_ WIDTH: \_\_\_\_\_ LENGTH: \_\_\_\_\_

VENDOR CONTACT PERSON: \_\_\_\_\_ PHONE: \_\_\_\_\_

**PARTS:**

BATTERY MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_ CCA: \_\_\_\_\_

TOP OR SIDE POST: \_\_\_\_\_ DIMENSIONS: LENGTH \_\_\_\_\_ WIDTH \_\_\_\_\_ HEIGHT \_\_\_\_\_

SPARK PLUGS OR FUEL INJECTORS MAKE: \_\_\_\_\_ PART # \_\_\_\_\_

FUEL PUMP OR INJECTION PUMP MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

ALTERNATOR MAKE: \_\_\_\_\_ PART #: \_\_\_\_\_

STARTER MAKE: \_\_\_\_\_ PART #: \_\_\_\_\_

TURBO CHARGER MAKE: \_\_\_\_\_ PART #: \_\_\_\_\_

TRANS. MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_ AUTO/MANUAL: \_\_\_\_\_

HYDRAULIC PUMP MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

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

X6.3 TRAINING:

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

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

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

If NO, explain time frame \_\_\_\_\_

**Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot?** \_\_\_\_\_ YES \_\_\_\_\_ NO

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

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

If NO, explain \_\_\_\_\_

X6.5 WARRANTY AND SERVICE POLICY

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

Is warranty literature attached? \_\_\_\_\_ YES \_\_\_\_\_ NO

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

Describe:  
\_\_\_\_\_  
\_\_\_\_\_



X6.6 EVALUATION COMMITTEE REQUIREMENTS

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

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

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

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

X7.0 SPECIFICATIONS OF THE QUOTED UNIT

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

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

X7.1 Moldboard:

X7.1.1 Overall width:

X7.1.1.1 **OPTION #1** - \_\_\_\_\_ feet \_\_\_\_\_ inches length cutting edge

X7.1.1.2 **OPTION #2** - \_\_\_\_\_ feet \_\_\_\_\_ inches length cutting edge

X7.1.2 Overall height:

X7.1.2.1 \_\_\_\_\_ inches high at the low end

X7.1.2.2 \_\_\_\_\_ inches high at the discharge end (less the snow deflector)

**X7.1.3 Moldboard Construction:** \_\_\_\_\_ US Ga. 304 Stainless Steel  YES  NO and rolled to give the snow a free rolling action  YES  NO

X7.1.4 Plow widths:

**X7.1.4.1 OPTION #1 – Overall width 10 foot cutting edge:**

35 degrees at \_\_\_\_\_ feet \_\_\_\_\_ inches

**X7.1.4.2 OPTION #2 – Overall width 11 foot cutting edge:**

35 degrees at \_\_\_\_\_ feet \_\_\_\_\_ inches

X7.1.5 **Vertical Ribs:** \_\_\_\_\_ vertical ribs of 1/2 inch x 3 1/2 inch f steel \_\_\_ YES \_\_\_ NO

X7.1.6 Snow Shield: Is an additional rubber snow shield provided \_\_\_\_\_ YES \_\_\_\_\_ NO

Size of belting: \_\_\_\_\_ and  
runs the entire length of plow \_\_\_\_\_ YES \_\_\_\_\_ NO

Is mounted so it does not add to overall plow height \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.1.7 Is it all continuously welded ribs, moldboard, and angles \_\_\_\_\_ YES \_\_\_\_\_ NO

**X7.1.8 Is it reinforced at the top and bottom edges \_\_\_\_\_ YES \_\_\_\_\_ NO**

Integrally structural channel reinforcing top of moldboard  
(Size) \_\_\_\_\_

Bottom angle \_\_\_\_\_ angle gusseted

X7.2 Cutting Edge:

**X7.2.1 Is cutting edge section, standard AASHO punched \_\_\_\_\_ YES \_\_\_\_\_ NO**  
**Full length high carbon steel \_\_\_\_\_ inch x \_\_\_\_\_ inch** and has 11/16 inch square  
holes punched with standard punching \_\_\_\_\_ YES \_\_\_\_\_ NO

**X7.2.2 Edge is replaceable and fastened by 5/8 inch Grade 5 carriage bolts**  
\_\_\_\_\_ YES \_\_\_\_\_ NO

X7.2.3 Is a heavy skid shoe (size \_\_\_\_\_) attached to the extreme right  
hand underside at the cutting edge reinforcement to support the outer end of  
moldboard \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.3 Safety Trip Mechanism:

X7.3.1 Is tripping mechanism attached to semi-circle and moldboard ribs \_\_\_\_\_ YES \_\_\_\_\_ NO

Are these done with compression springs \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.3.2 Are springs two (2) external compression springs sitting inside two (2) moldboard adjusting struts made from two (2) 1/2 inch x 2.5 inch bars sliding to a 3/4 inch x 2.5 inch center bar with an overall length of 39.5 inches

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

X7.3.3 Does the trip mechanism hold the plow rigid in the plowing position and trip automatically when the cutting edge comes in contact with an obstruction then return to normal plowing position \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.4 Push Frame:

X7.4.1 Is push frame of all welded construction designed per manufacturer's heavy duty specifications \_\_\_\_\_ YES \_\_\_\_\_ NO

Push frame \_\_\_\_\_ inches in length for 10 foot and

\_\_\_\_\_ in length for 11 foot plow made of 4 inch x 4 inch x 3/8 inch structural tube \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.4.2 Connection of moldboard to push frame by \_\_\_\_\_ hinges with each hinge having a fully welded in bushing to house pin \_\_\_\_\_ YES \_\_\_\_\_ NO

Bushings are 1 1/4 inches mounted to two (2) 5/8 inch mounting ears for total bearing surface per bushing of 2 1/2 inches \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.4.3 Is the plow push frame equipped with an oscillating center pin of plow portion hitch of 2 inch with push plate being 1 inch x 33 inches x 5 inches feature to permit the plow to follow uneven road surfaces \_\_\_\_\_ YES \_\_\_\_\_ NO

Is semi-circle 3 1/2 inches x 3 1/2 inches x 1/2 inch \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.4.3.1 Is push frame equipped with a quick hitch connection system \_\_\_\_\_ YES \_\_\_\_\_ NO



X7.4.4 Fixed Angle Mechanism:

**X7.4.4.1 Does the unit have any power angle cylinders**  YES  NO

X7.4.5 Skid Shoes:

**X7.4.5.1 Caster mounted carbide mushroom type shoes**  YES  NO

**Is one (1) on each side provided**  YES  NO

**X7.4.5.2 Is manufacturer's standard adjusting mechanism included**  
 YES  NO

X7.5 Hitch:

**X7.5.1 Is it designed a universal heavy duty type unit to carry plows of weight specified when mounted on 32,000 pound or larger trucks**  YES  NO

**X7.5.2 Is hitch bumper to frame type adaptable to any conventional truck and to accommodate the tilt front end on the carrier**  YES  NO

**X7.5.2.1 Is hitch attached to truck's frame rails**  YES  NO

**X7.5.2.2 Hitch includes a lift system designed at a rated capacity of at least 8,000 lbs.**  
 YES  NO

**Same size as plows reversing cylinder for WVDOH's Interchangeability**  YES  NO

X7.5.3 Truck portion hitch attachment of WVDOH quick release design:

**X7.5.3.1 Is hitch frame height 33 5/8 inches and hitch width 26 inches**  
 YES  NO

X7.5.3.2 Hitch frame members are  inches x  inches x  inches structural angle  YES  NO (OR) tubing  YES  NO

Is this hitch low profile for access to the truck's engine compartment  
 YES  NO

**X7.5.3.3 Is the lift arm and lift frame designed to accept a 4 inch lift cylinder with nitrided cylinder tube**  YES  NO

Cylinder pins are  inch cold rolled steel  YES  NO

X7.5.3.4 Is self-storing lift arm, accomplished by pulling one (1) 1 inch pin and folding cylinder up, allowing you to re-pin to store  YES  NO

X7.5.3.5 Is telescopic lift arm manufactured of 4 inch x 4 inch x 3/8 inch square outer tubing and 3 inch x 3 inch x 3/8 inch square inner tubing  YES  NO

Is the lifting plate 3/8 inch x 4 inch flat material and has two (2) banjo-type chain eyes able to accept 1/2 inch chain as well as the weight of the plow  YES  NO

Are there two (2) stabilizer arms mounted to receiver tube of telescoping arm and outside pivot of hitch  YES  NO

X7.5.4 Will custom 1/2 inch Grade 50 or better check plates be provided which are bolted welded or bolted to main hitch and allows for bolting to truck's frame rail  YES  NO

X7.6 Hydraulic System:  
Will you supply the following hydraulic components  YES  NO

X7.6.1 Provide one (1) 4 inch lift cylinder with 10 inch stroke double-acting hydraulic lift cylinder, (even if we only use one (1) line fitting in upper end with breather), clevis pinned top and bottom?  YES  NO

X7.6.2 Provide one (1) piece of two (2) wire hydraulic pressure hose one-quarter (1/4) inch diameter by approximately ten (10) feet long?  YES  NO

Is hose equipped with the following  YES  NO

X7.6.2.1 Hose equipped with one (1) quick coupler at plow end with dust cap?  YES  NO  
Manufacturer/Model: \_\_\_\_\_

X7.6.2.2 Each hose equipped with two (2) crimp-type fittings with male JIC 370 threads One (1) to mate with swivel and the other to mate with quick coupler?  YES  NO

X7.6.2.3 Each hose equipped with one (1) JIC 370 - swivel - 90°elbow/male JIC 370?  YES  NO

X7.6.2.4 Each hose equipped with one (1) adaptor to mate bank valve port to JIC swivel?  YES  NO

**X7.7 Other Standard Features:**

**List other standard features offered and not addressed above:**

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**X7.8 Does the proposed unit meet or exceed the OSHA of 1970 and/or subsequent changes? \_\_\_\_\_ YES \_\_\_\_\_ NO**

X7.9 Is push frame and/or hitch assembly designed with regard to overall distance of truck to front of plow which would jeopardize truck balance? \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.10 Paint:

Describe proposed method of painting the unit: \_\_\_\_\_

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Will unit be sandblasted prior to painting? \_\_\_\_\_ YES \_\_\_\_\_ NO

Will complete assembly receive one (1) layer of powder coating \_\_\_\_\_ YES \_\_\_\_\_ NO

Will front of plow be spray coated \_\_\_\_\_ YES \_\_\_\_\_ NO

X7.10.5 Paint and undercoat for push frame and hitch \_\_\_\_\_

**Will push frame and hitch be completely covered \_\_\_\_\_ YES \_\_\_\_\_ NO**

**X7.11 Does the unit conform to the advertising guidelines? \_\_\_\_\_ YES \_\_\_\_\_ NO**

X7.12 Will all loose hardware be in separate containers for each plow and be shipped with each plow? \_\_\_\_\_ YES \_\_\_\_\_ NO