# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

#### BIDDER'S EVALUATION REPORT

#### PROCUREMENT SPECIFICATIONS NO. 021-2-E

### OPEN END CONTRACT 10 FOOT OR 11 FOOT POWER REVERSIBLE SNOWPLOW (HYDRAULIC)

NOTE TO BIDDER: Procurement Specification No. 021-2-E, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

	Reference Requisition No.:	
	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?	YESNO
	DELIVERY:  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	
	SPECIFICATIONS - GENERAL  Manufacturer, model, series, and date of manufacture of proposed unit:		
AU.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 d Equipment Division at Buckhannon upon completion of delivery of total u		he
		YES	NO
	Will the required Equipment Preventive Maintenance Form (Section X6.2)	2 of Bidders	Evaluation
	Report) be provided upon inspection of the pilot unit?	YES	

## 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:				MA	KE:	
M	ODEL:		YEAR:	PUF	RCHASE AMOUNT:	
ENGINE:	MAKE:		MODEL:		_ FUEL TYPE: _	
	HORSEPOWER: _		CYLINDER: _	ENG	GINE SERIAL:	
	COOLING SYSTE	EM CAPACITY: _				
BELTS:	DESCRIPTION:			PART NUM		
GVW:						REAR:
TIRES:	FRONT MAKE &	SIZE:				
	REAR MAKE & S					
DIMENSIO	ONS OF UNIT:	LENGTH:		WIDTH:	<del></del>	LENGTH:
VENDOR (	CONTACT PERSON	I:		·	PHONE:	
PARTS:						
BATTERV	MAKE.		MODEI :		$CC\Delta$ .	
TOP OR SI	IDE POST:		DIMENSIONS	S: LENGTH	WIDTH	HEIGHT
SPARK PL	UGS OR FUEL INJE	ECTORS MAKE:		PART#		
	MP OR INJECTION I			MODEL:		
				PART #:		
TRANS. M	IAKE:	MODE	EL:		AUTO/MANUAL	<i>:</i>
HYDRAUI	LIC PUMP MAKE: _			MODEL:		
FILTERS	MAKE	PART NO.	LUBF	RICANT	MANUFACTU	RER TYPE
OIL			ENGI	NE		
	R					
AIR OUTE	ER		POW	ER STEERING		
FUEL PRIM	MARY		HYDI	RAULIC		
FUEL SEC	CONDARY		DIFFI			
	Γ		BRAF	DIFFERENTIALSBRAKE FLUID		
HYDRAIII	LIC		COOI	COOLANT		
OTHER	<del></del>					

TRAINING:		
•		_
If NO, explain time frame		
· ·	videos, proj	ectors, required
service schedule be delivered with each unit?	YES_	
WARRANTY AND SERVICE POLICY		
		of specifications
Is warranty literature attached?	YES N	NO
and normal wear items included?		
	Will training seminar be conducted on Preventive Maintenance, Operator a	Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic YESN  Will you conduct training with each purchase order against this open end contractYESN  Will training be conducted within 2 working days from the delivery of the pilot unit on purchase order?YES  If NO, explain time frame

## **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. D	efine the terms of the sta	dard warranty. If not offered, so state. (Attach copy)	
		be performed at DOH facilities and warranty service to be performed at facility. List name and location of manufacturer's representative.	
3. Li knov	-	ntories that are within the State of West Virginia. Also, list availability level	ls, if
	uring the term of warranter will sell the parts to or	y, list the guarantee discount to manufacturer's published list price for parts tyner.	hat
A. B. C.	Terms: Net 30 Terms: Net 60 Terms: Net 90	Manufacturer's published list price less:% discount Manufacturer's published list price less:% discount Manufacturer's published list price less:% discount	
	uring the term of warran nways?	y, will all manufacturers or engineering improvements be submitted to DivisiYESNO	ion of
6. D	uring the term of warran	y, list the guaranteed rates charged for repair to the unit.	
A.	Shop Rate	\$ per mechanic hour	
B.	Travel Time Charge (Specify if one-way)	\$ per mechanic hour; port to port	
C.	Mileage Charge (Specify if one-way	\$ per vehicle mile; port to port	
D.	Field Mechanic Rate	\$ per mechanic hour	
E.	Specify period of time	that prices are in effect:	
F.	Surcharge for miscell	neous items: %	

	Is all component specifications, product literature, co Committee bid determination?	omponent models pro			
X6.7	Will all parts, equipment, accessories, material, do specified herein, but which are necessary to provide and conform in strength, quality of material, and advertised and provided to the market in general	de a complete unit, be quality of workman by the unit industry	oe furnis ship to tl ?	hed with the unit nose which are	
			YES	_NO	
X6.7.1	Are all parts and accessories adequate and regular those which may be duplications of specifications to be furnished?	herein, and except the		pecification are no	ot
X6.7.2	Are all standard safety features that are required	by Federal and Stat YES		s of law included?	
X7.0	SPECIFICATIONS OF THE QUOTED UNIT The bidder should complete the following schedule is unit to the specifications. Should the bidder except a the basis that such feature is not offered by the manuf discretion as to whether the bidder's substitution mee by the manufacturer. The Division will have the sole meets the requirements of the specifications.	requirement, then su facturer. The Division ts the requirements of	ch except on will had f the spec	tion may be only or ve the sole difications.	1
	Is the snowplow designed for mounting on a single a	xle or tandem dump t			
	Is the snowplow capable of plowing to the right or le right or left	ft at and angle approx	•	35° discharging to t	he
	Is it a straight blade type with an integral type snow s	shieldYES _	NO		
	Does it have two (2) trip springs setting inside the tw	o (2) moldboard strut	.s	YESNO	
	Will you supply the hose and fittings to connect be bumper	oth systems to the va		ed under the front	t
	Is the blade section type, made up of three (3) and for having a tungsten carbide inserted cutting edge	ur (4) foot sections to		feet or 11 feet wide	,
	Manufacturer:	Model:			

X6.6 EVALUATION COMMITTEE REQUIREMENTS

X7.1 N	Moldboard:	
X7.1.1	Overall Width:	
X7.1.1.1	<b>OPTION #1</b> – 10 Foot YES NO	
X7.1.1.2	<b>OPTION #2</b> – 11 Foot YES NO	
X7.1.2	Overall height: inches	
X7.1.3	Moldboard construction: U.S. Gauge the snow a free rolling action	steel and rolled to give
X7.1.4	Travel arc: ° each way; total	o
X7.1.5	Moldboard has a cutting edge attach angle with three and 20 degree vertical measurement from ground usin	
X7.1.6	Weight of plow: 10 foot Lbs. 11 foot _	Lbs.
X7.1.7	Number of vertical ribs	Formed steel
X7.1.8	Is an additional rubber snow shield provided?	YES NO
	Size of belting Run entire length of plow? _	YESNO
	Mounted so it won't add to overall height?	YES NO
X7.1.9	Continuously welded ribs, moldboard, and angles	YES NO
X7.1.10	Reinforced at top and bottom edges?	YES NO
	Top of moldboard reinforced with integrally structural cha	annel? YESNO
	Size of channel:	
	Bottom angle x angle gusseted.	
X7.2 C	Cutting Edge:	
X7.2.1	Sectioned, standard AASHO punched, in three (3) food	t and four (4) foot lengths? YES NO

X7.2.2	Blade Sections:
X7.2.2.1	inch thick by inches wide having a Grade WC cemented tungsten carbide insert of approximately 88 Rockwell A scale hardness?
X7.2.2.2	YESNO  Insert silver soldered on all sides of a milled slot near the center of the working edge?
	YES NO
X7.2.2.3	Braze joint transverse rupture strength: PSI
X7.2.2.4	Blade section identifiable by manufacturer, name and part number stamped on the reverse side of each section? YES NO
X7.2.2.5	Will wrap around curb guards be mounted on right and left side of plow YES NO
X7.2.2.6	Curb guards are inch thick, inches high and inches long
X7.3 Sa <b>X7.3.1</b>	afety Trip Mechanism:  Tripping mechanism attached to semi-circle and moldboard ribs use two (2) compression springs  YESNO
X7.3.2	Are springs two (2) external compression springs sitting inside (2) moldboard adjusting struts made from (2) $\frac{1}{2}$ inch x 2.5 inch bars sliding to a $\frac{3}{4}$ x 2.5 inch center bar with an overall length of 39.5 inches
X7.3.3	Does the trip mechanism hold the plow rigid in plowing position and trip automatically when cutting edge comes in contact with an obstruction then returns to normal plowing position?YESNO
X7.4 Pt <b>X7.4.1</b>	ash Frame:  All welded construction designed per manufacturer's heavy duty specifications?  YES NO
	Push frame length for 10 foot: inches Structural tube size:
	Push frame length for 11 foot: inches Structural tube size:
X7.4.2	Number of hinges in moldboard to push frame connection?
	Each hinge has a fully welded in bushing to house pin YES NO
	Bushings are 1 $\frac{1}{4}$ inch mounted to two 5/8 inch mounting ears for total bearing surface per bushing of 2 $\frac{1}{2}$ inches YES NO

X7.4.3	Equipped with an oscillating center pin of plow portion hitch of 2 is 1 inch x 33 inches x 5 inches feature to permit plow to follow unever YES YES			
	Semi-circle is 3 ½ inches x 3 ½ inches x ½ inch	NO		
X7.4.4 H <b>X7.4.4.1</b>	ydraulic Power Reversing Mechanism:  Consist of two (2) double acting 4 inch x 2 inch power reversing with the fixed base end in the center of the push frame?Y			
	Are cylinders mounted above the semi-circle	YES NO		
X7.4.4.2	Does hydraulic power reverse mechanism include a dual cross  Rated at GPM	-over relief cushion valve? YESNO		
X7.4.4.3	The "A" frame is made from inch channel with inch flacenter reversing pin mounted in a inch, inch wall tub			
	Push ends are welded to a inch x inch x inch x pivot hole for the oscillator bar to attach to	base plate having a inch YES NO		
X7.4.5 X7.4.5.1	Skid Shoes: Are caster mounted carbide mushroom type shoes included?	YES NO		
	One on each side YES NO			
X7.4.5.2	Manufacturer's standard adjusting mechanism included?	YESNO		
X7.5 H X7.5.1	itch: Universal heavy duty type designed to carry plows of weight specified pound class truck minimum?	when mounted on a 32,000 YES NO		
X7.5.2	Bumper to frame type adaptable to any conventional truck and to a tilt front end on the carrier?	accommodate a YES NO		
X7.5.2.1	Is hitch attached in truck's frame rails?	YES NO		

X7.5.2.2	Does hitch include a lift system	_ YES	_NO	
	Designed at a rated capacity oflbs.			
	Is lift cylinder the same size as plows reversing cylinder for V	VVDOH int _ YES		ity
X7.5.3 Hitc	ch to Bumper Attachment:	120	_110	
X7.5.3.1	Is hitch frame height 33 5/8 inches and hitch width 26 inches	YI	ESNO	
X7.5.3.2	Hitch members areinches x inches x inches x	structural an	-	
	Hitch is low profile for access to the truck's engine compartment	YEYE	ESNO	
X7.5.3.3	Is the lift arm and lift frame designed to accept a 4 inch lift c tube? YES		nitrided cyli	ndeı
	Cylinder pins are inch cold rolled steel YES	NO		
X7.5.3.4	Does unit have self-storing arm YES NO			
	Is this accomplished by pulling one (1)- one (1) inch pin and fol allows you to re-pin to store?	•	-	1
X7.5.3.5	Axle clamp allows longitudinal motion but not vertical and h	orizontal m YES	otion? _ NO	

X7.5.4	wel	es unit provide custom ½ inch Grade 50 or better check plates which are bolted lded or bolted to main hitch and allows for bolting to truck's frame railESNO	
X7.6	•	nulic System:  you supply the following hydraulic components YES NO	
X7.6.1		ovide one (1) 4 inch lift cylinder with 10" stroke double-acting nitrided draulic lift cylinder, clevis pinned top and bottom?	
X7.6.2 cylinde		ovide two (2) four (4) inch double acting nitrided hydraulic reversing	
X7.6.3		evide three (3) pieces of two (2) wire hydraulic pressure hose one-quarter (1/4) ch diameter by approximately ten (10) feet long?	_ YES
	Is e	each hose equipped with the following YES NO	
X7.6.3	.1	Each hose equipped with one (1) quick coupler at plow end with dust cap?YES	
		NO Manufacturer/Model:	
X7.6.3	.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	
X7.6.3	.3	Each hose equipped with one (1) JIC 370 - swivel - 90°elbow/male JIC 370?YES	
		NO TES	
X7.6.3	.4	Each hose equipped with one (1) adaptor to mate bank valve port to JIC swivel?	YES
X7.7		r Standard Features: other standard features offered and not addressed above:	_ 120

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X7.8 Does the proposed unit meet or exceeds the OSHA of 1970 and/or subsequent

change	es?	YES	<b>;</b>
X7.9	Is snowplow close fitting, simple, reversible snowplow operate as close as possible to the vehicle pushing it, twithin reasonable limits	<u> </u>	
	Within Teasonable mines	YES NO	
	Is it a relatively light weight compact unit	YES NO	
	Is push frame and/or hitch assembly designed with regar front of plow which would jeopardize truck balance? NO	d to overall distance of truck to YES	
X7.10	Paint:		
	1 Will unit be sandblasted and prepped prior to painting NO	g as stated in 7.10.1?	
X7.10.	2 Will complete assembly receive one (1) layer of power NO	der coating YES	
	Will front be sprayed in enamel YES	NO	
	3 Describe painting of front of		
X7.10.	4 Describe painting of rear of plow:		
X7.10.	5 Paint for push frame and hitch		
NO	Will push frame and hitch be completely covered	YES	
X7.11	Does the unit conform to the advertising guidelines?	YESNO	
X7.12	Will all loose hardware be in separate containers for each	h plow and be shipped with each plow?	