

# **TOWN OF HENRIETTA**

**SPECIFICATIONS**

**FOR**

2019 or newer Hydraulic Sweeper Attachment for a Wheel Loader

**FOR**

**THE TOWN OF HENRIETTA HIGHWAY DEPARTMENT**

**NOTICE:** BIDDERS ARE CAUTIONED TO READ THE SPECIFICATIONS CAREFULLY AND TO NOTE ALL THE CONDITIONS THEREOF, PARTICULARLY THE SPECIAL EQUIPMENT DESIRED AND THE DATA TO BE FURNISHED WITH THE BID.

## GENERAL INSTRUCTIONS

**INTENTION:** IT IS THE INTENTION OF THE TOWN OF HENRIETTA TO PURCHASE ONE NEW 2019 HYDRAULIC SWEEPER ATTACHEMNT FOR A WHEEL LOADER; IN FULL ACCORD WITH THESE SPECIFICATIONS..

**QUESTIONS:** QUESTIONS REGARDING AMBIGUITIES OR THE PROPRIETY OF THESE SPECIFICATIONS SHOULD BE ADDRESSED IN WRITING, TO THE TOWN SAFETY OFFICER, PRIOR TO THE FORMAL BID OPENING. SUCH QUESTIONS WILL NOT BE ENTERTAINED AFTER SAID BID OPENING.

**BIDDER QUALIFICATIONS:** ALL BIDDERS MUST BE FACTORY-FRANCHISED DISTRIBUTORS, DEMONSTRATE THE CAPACITY TO PROVIDE SERVICE AND THE ABILITY TO MAINTAIN SUFFICIENT SPARE PARTS INVENTORY. THE TOWN OF HENRIETTA RESERVES THE RIGHT TO INSPECT THE BIDDER'S FACILITY TO DETERMINE IF BIDDERS MEET THE ABOVE. NET PRICES, PRICE FIRMNESS, DELIVERY AND COMPLIANCE WITH THE SPECIFICATIONS WILL BE FACTORS IN MAKING THIS AWARD.

**BROCHURES:** ALL BIDDERS TO FURNISH A MANUFACTURER'S BROCHURE ON ALL EQUIPMENT OFFERED.

**MANUALS:** ONE (1) OPERATOR'S MANUAL MUST BE FURNISHED BY THE BIDDER AT THE TIME OF DELIVERY. THE BIDDER WILL ALSO FURNISH ANY AND ALL BULLETINS, MODIFICATION NOTICES, SERVICE LETTERS, AND RELATED ADDENDA, THROUGHOUT THE LIFE OF THE TRACTOR FURNISHED UNDER THIS CONTRACT. THIS DATA SHALL BE SENT TO: SAFETY OFFICER, 475 CALKINS ROAD, HENRIETTA, NEW YORK 14467.

**GUARANTEE & WARRANTY:** THE MANUFACTURER MUST GUARANTEE THE ENTIRE ATTACHMENT FOR DEFECTS IN MATERIAL AND WORKMANSHIP, 100% PARTS AND LABOR (NON-DECLINING), FOR A PERIOD OF ONE (1) YEAR.

**EXCEPTIONS:** ALL EXCEPTIONS SHALL BE FULLY AND COMPLETELY NOTED. IT SHALL BE UNDERSTOOD THAT, IF NO EXCEPTION IS TAKEN, THE VENDOR SHALL SUPPLY EQUIPMENT AS SPECIFIED.

**SUBSTITUTIONS:** THE SUCCESSFUL BIDDER MUST SUPPLY THE EQUIPMENT, ORIGINALLY SUBMITTED IN THEIR BID. NO SUBSTITUTIONS ACCEPTED.

**DELIVERY:** DELIVERY OF THE HYDRAULIC SWEEPER ATTACHMENT, COMPLETE AS SPECIFIED, TO THE DEALER, MUST OCCUR WITHIN 60 CALENDAR DAYS AFTER ACTION OF THE HENRIETTA TOWN BOARD AWARDING THIS CONTRACT.

**PRICE BID:** SHALL INCLUDE ALL COSTS, INVOLVED IN FURNISHING THE HYDRAULIC SWEEPER ATTACHMENT, INCLUDING FREIGHT, AND INSTALLATION COMPLETE AS SPECIFIED. PRICE BID SHALL NOT INCLUDE STATE, COUNTY OF FEDERAL TAXES. IT IS UNDERSTOOD AND AGREED THAT THE PRICE BID SHALL BE FIRM (NOT SUBJECT TO CHANGE) FOR THIRTY (30) CALENDAR DAYS AFTER THE BID OPENING.

**REQUIRED DOCUMENTS:** BIDDERS MUST SUBMIT, WITH THEIR BIDS, GENERAL MUNICIPAL LAW SECTION 103-a CERTIFICATION AND SECTION 103-d NON-COLLUSION BIDDING CERTIFICATE.

**RESERVATION:** THE TOWN RESERVES THE RIGHT TO ACCEPT THE HYDRAULIC SWEEPER ATTACHMENT ON AN APPROVED EQUAL BASIS. THE TOWN RESERVES THE RIGHT TO JUDGE ALL EQUIVALENCIES, TO WAIVE ANY MINOR INFORMALITIES AND TO WAIVE ANY MINOR DEVIATIONS FROM SPECIFICATIONS. THE TOWN RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS.

**AWARD:** AWARD WILL BE BASED ON THE LOWEST PRICE BID, COMPLIANCE WITH THESE SPECIFICATIONS AND BIDDER QUALIFICATIONS.

**PAYMENT:** PAYMENT WILL BE MADE AT BID PRICE WITHIN THIRTY (30) DAYS AFTER FINAL ACCEPTANCE OF THE HYDRAULIC SWEEPER ATTACHMENT BY THE COMMISSIONER OF PUBLIC WORKS.

**PROPOSAL SHEET**

FURNISH ONE (1) HYDRAULIC SWEEPER ATTACHMENT, PER THESE SPECIFICATIONS, TO THE HENRIETTA HIGHWAY DEPARTMENT:

\_\_\_\_\_ TOTAL PRICE \$ \_\_\_\_\_  
(in writing)

MANUFACTURER: \_\_\_\_\_ MODEL: \_\_\_\_\_

GUARANTEED DELIVERY, AS SPECIFIED, WITHIN \_\_\_\_\_ CALENDAR DAYS

SIGNED: \_\_\_\_\_

TITLE: \_\_\_\_\_

REPRESENTING: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_

TELEPHONE/FAX: \_\_\_\_\_

DATE: \_\_\_\_\_

## MINIMUM SPECIFICATIONS

<b>MINIMUM SPECIFICATIONS</b>			
<b>I General technical specifications and component structure</b>		<b>Meets Spec</b>	<b>Exception</b>
	Hydraulic sweeper attachment for wheel loaders		
	Wheel loader weight requirement - 19 000 lbs +		
	Dimensions of the product, width - 7.40ft		
	Dimensions of the product, height - 4.10ft		
	Dimensions of the product, depth - 8.03ft		
	Dimensions of the product, weight - 3,300 lbs		
	Quick coupler mounting - ACS 2000 Series 30 HD		
	Gutter broom options - Right side gutter broom		
	The sweeper shall be equipped with both a mechanical broom and specific technology to blast air on the street surface to remove fine dust off the ground		
	The sweeper shall be certified for PM2.5 and PM10 dust removal and dust control capabilities with waterless sweeping performance		
	The sweeper unit's painted steel parts shall be powder coated		
	The sweeper shall have NO washable filters		
	The sweeper shall have NO conveyor belt mechanisms for debris and dust elevation.		
	The sweeper shall be equipped with cyclonic dust control as the primary dust control method		
	The sweeper device shall allow the complete sweeper device to float for a minimum of of 10 degrees horizontally		
	The sweeper device shall allow the complete sweeper device to float for a minimum of of 3 inches vertically		
	The sweeper device shall allow the complete sweeper device to float along the uphill and downhill of the street surface for a minimum of +-15 degrees.		

<b>II Power source and motors</b>			
Power source from the Wheel loader auxiliary hydraulics			
Hydraulic flow requirement - 19 gal / min			
Hydraulic pressure - 2700 psi			
Motor type, main broom - Hydraulic			
Motor type, airknife blower - Hydraulic internal gear motor			
Motor type, air flap - Actuator			
Motor specification, main broom max torque continuous - 417 ft lbs minimum			
Motor specification, main broom max rpm continuous - 375 rpms			
Hydraulic setup required -1 pressure-return auxilliary hydraulics + case drain line			
The product shall have no incremental engine power. All motors used shall take their power source from the wheel loader auxilliary hydraulics.			
The sweeper unit shall be compatible with both 12V and 24V electric systems of various wheel loaders using and integrated converter			
<b>III Main broom characteristics</b>			
Main broom, drum diameter -7"			
Main broom, brush composition -Wafer brush			
Wafer brush diameter, minimum -35"			
Main broom drive & motor -Central driven chain drive, gerotor hydraulic motor			
Main broom shall be constructed to allow both horizontal and vertical floating for the main broom shaft to maximize brush lifetime.			
Main broom shall be constructed and mounted inside a closed sweeping chamber with sealed structures around to minimize dust exposure			
Main broom shall be assembled to rotate clockwise looking from the left side of the sweeper device, to throw collected debris from top to down into the hopper.			

<b>IV Fine dust removal technology</b>			
The sweeper unit shall be equipped with an air blasting technology that blasts fine dust off the ground behind the main broom in the forward moving mode			
The sweeper shall have a certified fine dust removal efficiency rating for both PM2.5 AND PM10 in dry conditions.			
The sweeper unit shall not have separate suction engines to create fine dust removal with a separate auxilliary engine - NO SUCTION ENGINES			
<b>V Dust control</b>			
The sweeper shall be equipped with a filterless and waterless dust control method as the primary dust control method.			
The sweeper unit's waterless dust control performance shall be certified for both PM2.5 AND PM10 in a industry benchmark test.			
The sweeper unit shall be equipped with a 6 nozzle kit and a 12V water pump and a max 20 gallons rasterized water tank to humidify the dust hopper as a secondary dust control method.			
<b>VI Hopper characteristics</b>			
Hopper capacity shall be a minimum of 2.3 yd3			
Hopper unloading shall be touch screen controlled and hydraulically operated			
The hopper shall be possible to be unloaded on a dump truck using the wheel loader arms for lifting			
Opening and closing the dust hopper door shall take maximum of 5 seconds			
Hopper bottom shall be equipped with a bolted wear out plastic plate.			
Emptying of the fine dust container at the bottom of the fine dust separator (cyclone) shall be emptied together with the main hopper door open/close functionality.			

<b>VII Controls and maneuverability</b>			
All operations of the sweeper shall be controlled through a CAN-BUS corded network setup using a dedicated touchscreen device inside the wheel loader cabin			
The sweeper unit shall be equipped with user assisiting sensors for optimal sweeping height, optimal sweeping brush rotation (rpm) and optimal floating angling sensors.			
The touchscreen control unit of the product shall include a maintenance screen for parameters of electric and hydraulic functionality for troubleshooting			
The sweeper unit shall be equipped with user assisting automation functions that close air funnel of the air blasting technology when the device is lifted above 2.5 ft off the ground			
The sweeper unit shall be equipped with a hydraulic sideshift function to move the unit along the curb in street application.			
The sweeper unit shall have a CAMERA installed to assist the operator in sweeping along the sidecurbs.			
<b>VIII Gutter broom module</b>			
The sweeper unit shall be equipped with a hydraulically operated and touchscreen controlled gutter broom			
The gutter broom shall have a portable speed adjustment available via the in-cabin controls			
The gutter broom shall have a fine water mist dust control functionality connected to the 18 gal water tank and the water pump.			