

Scott County Administration
Purchasing Division
600 West Fourth Street, Davenport, Iowa 52801-1030

REQUEST FOR QUOTATION
Scott County Requisition No. **19516**
Bidders need to complete and submit this form.

Submission Date 6/1/2020	10:00 a.m.
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Qty	Description
1	2021 Dump/Snow removal equipment-tandem axel cab and chassis
	Specifications attached (pages 1-9)
	Submit responses to www.publicpurchase.com
	Please register at www.publicpurchase.com
	price quotation good for 60 days
	Delivery Included
	From time to time it may be necessary to change or modify a request for purchase. If you have received this request from any other source other than direct fax or email from Scott County, it is your responsibility to check for updates and/or changes to the request. If you would like to receive automatic updates please register your company in our vendor data base by using our website, www.scottcountyiowa.com

Scott County reserves the right to accept the bid from the lowest responsible bidder.

Quote submitted by:

Released by:
(Scott County Use Only)

Name

Date: 5/26/2020
Time: 12:00 p.m.

Title

Company

Date

PLEASE NOTE:
Bidders must provide an estimated delivery date in their bid response!

Company Contact Information:	Phone:
	E-Mail:

“By virtue of statutory authority, a preference will be given to products and provisions grown and coal produced within the State of Iowa.”



Scott County of Iowa

May 26, 2020

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SPECIFICATIONS FOR:

Installation of dump/snow removal equipment on one 2021 or newer, set forward tandem axle cab and chassis.

GENERAL REQUIREMENTS

The bid will include the installation of hydraulics, box, snowplow, under body scraper, tailgate salter and pre-wet system on one 2021 set forward tandem axle cab and chassis.

All bidders MUST inspect existing County trucks to verify installation of equipment prior to submission of bid. Inspections are by appointment with a 24 hour notice. Call Wayne at 563-328-4175 to set up the appointment.

Trucks are located at:

Scott County Secondary Roads

950 East Blackhawk Trail

Eldridge, IA 52748

The following is a list of other equipment to be installed:

- Heated LED plow lights
- Snow plow lights w/turn signals mounted on hood
- Steps for easy access to cab
- 100 gallon fuel tank mounted behind cab with shutoff. Work with cab and chassis manufacture to either get a manufacture's fuel tank equaling 100 gal or design one for behind the cab with fill neck not to exceed 60" from the ground.
- 6 LED Amber flashers in cab shield – 2 forward, 2 rear, 1 each side. All mounted inside a stainless steel protective enclosure.
- Quarter fenders mounted on frame in front rear wheels.
- Rear mud flaps w/removable pins.
- Rear tow hook

- Rear mounted Patrol Wing
- License plate mounts front and rear (rear on driver's side middle tailgate brace)

HYDRAULIC SPECS (ELECTRIC)

HYDRAULIC PUMP:

The hydraulic pump shall be a U.S. manufactured axial piston pressure and flow compensated load-sensing type. The pump shall be cast iron construction and rated to 6.00 cubic inches per revolution at maximum stroke which will deliver 24.7 gpm @ 1000 engine rpm. The pump shall have a 2" inch suction line and ¾" case drain line plumbed directly back to the reservoir. The pump shall be rated for 3000 PSI maximum and 2500 PSI continuous. The pump shall have a 1¼" keyed drive shaft and SAE type C mounting flange. The pump shall be Force America PVWH45L or prior approved equal. An auto shut off valve to be installed in outlet line of pump.

MOUNTING:

The hydraulic pump shall be mounted with shaft centerline parallel to the crankshaft centerline and at a level to create not more than a **three-degree angle** on the driveline. Pump mounting shall be incorporated with a bracket fabricated to mount in the extended frame rails of the truck. Pump to minimally protrude above frame rails for County installed tool box.

DRIVE LINE:

The hydraulic pump shall be driven directly off the engine crankshaft via a splined driveline to allow for movement. The driveline shall include grease fittings on both u-joints. Driveline shall be a Spicer model 1310 series.

RESERVIOR/VALVE ENCLOSURE:

A separate cradle mount tank and valve enclosure mounted in full width cradle above truck frame rail, between body and fuel tank. Tank and valve enclosures to be made of mild steel and power coated black.

FILTER:

Hydraulic oil filter shall be mounted in the reservoir. Hydraulic filter shall be a 16-micron absolute and rated for no less than 60 GPM. Filter shall be model TEF31016VG16SP-UG60E115 or prior approved equal and include visual and electrical bypass indicators. A warning light and buzzer shall be mounted in the cab and wired to the electrical indicator. Low oil pressure auto pump shut down with manual override
In cab.

HYDRAULIC VALVE:

1. Hoist, 4-way for a double acting cylinder with down side work port relief set at 500 psi.
2. Plow Lift, 4-way for a double acting cylinder.
3. Plow Angle, 4-way for a double acting cylinder.
4. Under body lift, 4-way for a double acting cylinder with down side work port
5. Relief set at 500 psi.
6. Underbody swing, 4-way for a double acting cylinder.
7. SOV-Dual 2-way 12v epc section for the operation of the auger and spinner.
8. Hydraulic section for pre-wet
9. Pressure relief manifold for front plow.
10. Supervisor and calibration keys supplied to Scott County.
11. Valve sections for mid-mounted wing

CONTROL CENTER GENERAL:

Force America Ultra 5100 EX floor mounted with 5100 EX model spreader control.
Tail gate lock and unlock switch to be one of 5 armrest switches.
Safety switch added to enable de-activation of tailgate switch when spreader is installed
Power distribution panel with fuses which isolates equipment electrical from chassis electrical.
All circuits to be clearly label to include extra circuits for County added components.
Red indicator light to be installed in dash to let driver know when tail gate is unlocked.

DUMP BODY SPECIFICATIONS

**One (1) EXTRA HEAVY DUTY STAINLESS STEEL 10-12 CU.YD.
(132" CAB TO CENTER OF BOGEY AND 217" WHEEL BASE)**

10 cu. yd. Body struck capacity and 12 cu. Yd. Capacity at tailgate height.
Sides 36".Front 58" and rear, 44" (approximately) Body to be 14 ft. floor long (with 15 ft. overall length due to cylinder being mounted in front of body) by 7 ft. wide (Sides shall have 3" board pockets to extend sides to tailgate height). Min tailgate height 44". The box overhang (from the box pivot point to the rear of the box) shall be 6-10inches. Nothing in the box construction shall inhibit the use of a tailgate spreader. Questions may be directed to the Shop Supervisor, Wayne Ryckaert at 563-328-4175.

Body to be equipped with 7 gauge 201 stainless steel half cab shields welded in place at 6 inches above cab. Weld joining box and cab shield on top to be continuous. Two lift pockets on top of dump body head sheet.

One piece floor plate 3/16" AR400 formed into floor (4-6" radius 45 degree bevel, sides to floor)

½” x 118” HMW liner installed with full length stainless steel cover strips, also bolted down across front.

Double acting tailgate, with offset hinges and spreader chains. Top of tailgate to be tapered to shed rock or dirt, with D ring welded to top center of tailgate for lifting. Tailgate chains long enough to lay down tailgate flush with floor.

Heavy-duty hardware with release hooks down. 1-1/4” diameter pins min. All tailgate hardware to be stainless steel.

Hoist opening framed with steel plate and attached to cylinder mounting of doghouse assembly to lift loads by uni-body superstructure and not by doghouse only. Doghouse to be in front of body (internal doghouse is not acceptable).

Rear pintle plate with 40 ton manual pintle hook, D rings and trailer plug with existing chassis air lines through plate and capped with ½” plugs. Pintle plate to be 22 ½” from ground to bottom of plate. Ground to pintle hook low as possible. Includes a 7-pin round plug.

Eight inch structural steel I-beam longitudinal with no cross-members under box.

HOIST – Double acting front mount telescopic. Trunnion mounted cylinder to be self-bleeding, full power up and power down for the tailgate spreader application. Cylinder to have 129” stroke. .

Box to have horizontal weld-on side and tailgate braces sides and endsheets to be 7 ga. 201SS. All body and tailgate side braces to be welded full length and all reinforcing and webs to be welded full length. Rear hinge pins to be greasable.

Electric Solenoid operated air actuated tailgate lock kit. Anchor lock 24 LS brake chamber or compatible with box tripping mechanism.

LED lights. Lights, mountings, and reflective tape (installed on lower edge of box sides and center of tailgate) supplied with box to meet all DOT and Iowa regulations. Body is to be equipped with three oval light holes in each rear corner post. Top light amber strobe, middle light tail light, and bottom light backup. We are requesting a bottom steel or poly plate, to give additional protection to lights and wiring, on the lower portion of each rear post.

Upper and lower chain hooks, (upper for tailgate down operation) **Min. ½” thick stainless material**. Stainless steel steps on front driver’s side of body. Includes step on tank mount and two stainless steps on body plus stainless grab handles. One stainless steel spring loaded shovel holder on **each** side of box

PREWET SYSTEM:

Tailgate unit with 75 gallon tank.

Frame for tank must be stainless steel.
Pump must be hydraulic driven with flow meter.
On-off controlled by Ultra 5100 EX.

TAILGATE SALTER:

Must be 201 stainless steel.
Henderson TG 6" or equalivant.
Salter must be equipped with LED light for spinner.
Salter to be mounted 4" below tailgate>
Spreader must have 7 ga trough with 1/4" end plates.
Stainless steel spill shields mounted inside of tailgate.
Auger motor with integral speed sensor.
Dump body must have tailgate filler plate so rear apron is flush full width.
Tailgate spreader couplers located in front of rear bolsters each side.
Includes two tailgate prop supports to keep tailgate open during spreader operation.
Spill shield mounting to include stainless bushings through tailgate braces.
Adjustable baffle to direct spread.

UNDERBODY SCRAPER:

Must be Henderson UBS or equalivent with a one piece 1" circle.
Dual hydraulic reverse cylinders with cushion valve.

GENERAL SNOW PLOW REQUIREMENTS

The intent of these specifications is to describe snow plows and frames assembled complete with all necessary equipment. The plow is to be complete and ready for use. Dealer shall attach specifications and appropriate literature to their proposal. Units shall be properly primed and painted. Units are to be heavy duty construction throughout.

SPECIFICATIONS:

One (1) eleven foot Two-Way level top Plow. The Plows to be equipped with "Quick hitch" style hitch. The truck portion of hitch is to be included in bid.

1. Two-Way snow plow, integral shield - discharge off both sides.
2. Safety tripping devices; full moldboard trip to tip forward, for driver and vehicle safety. Trip springs to have 5 position adjustments for trip force tension.
3. Moldboard cutting edge to be 11 foot in length.
4. Level plow height 41 - 42 inches from front edge of plow to ground.

5. Plow frame to have twin double acting four inch cylinders with plow-mounted cushion valve, hoses from cylinders to truck hitch, and including ½” male and female quick couplers.
6. Plow to be not less than 10 gauge throughout. – Stainless moldboard sheet - completely and adequately reinforced throughout.
7. Plow hitch to be “quick hitch” style with 30-1/2” centers with oscillating quick hitch. Truck portion to be low profile for hood clearance.
8. The cutting edge shall be a 3/4" x 6" carbide blade with 1/2” x 6” cover blade - bolted to plow moldboard with hole pattern conforming to A.A.S.H.O. specifications.
9. Plow to be Equipped with 24” blade markers mounted to top outer edges of plow.
10. Plow to be equipped with deflector to throw snow up and out as well as provide good vision. (i.e. front rubber flap).
11. Plows to be painted highway orange.
12. Plow to be equipped with parking jack.
13. Fabricated front bumpers with chassis supplied tow hooks.

List all variations to spec, and state plow angles.

1. _____
2. _____
3. _____
4. _____

SPECIFICATIONS FOR A NON-TRIP 9’ REAR MOUNT PATROL WING

GENERAL:

This specifications shall describe a Henderson SNOWfoe Series Patrol Wing or approved equal. This unit shall consist of twin hydraulic cylinders for complete control of moldboard heel and toe. Rolled moldboard shall be one piece and continuous seam welded. Bidders must submit with their proposal complete specifications on the unit they propose to furnish.

MINIMUM MOLDBOARD REQUIREMENTS:

Moldboard height shall be 32" at heel and toe.

9" x 3/4" x 6" 3-piece carbide cutting edge with one piece 1/2" x 6" cover blade with radius toe end.

10 ga. grade 50 rolled moldboard with minimum of seven(7), 1/2" flame cut ribs for extra strength and rigidity.

Continuous welded one-piece moldboard.

Reinforced 4" x 4" x 3/4" bottom angle with 1/4" x 4" plate braces.

2" x 2" 3/16" boxed top angle with end capped.

(2) 2" x 2" x 3/16" angle horizontal stiffeners for added rigidity.

Push arm mounting points shall be 3/8" plate.

WING POST MOUNTED AHEAD OF REAR TANDEM:

8" lift front post to mount just ahead of tandem tires but behind cab.

Manufactured slot and tab style front mast post.

Toe cylinder is double acting with nitride 2" rod.

Slide plate shall be 1/2" x 1" bar stock welded and gusseted to front post.

REAR WING SUPPORT MOUNTED BEHIND REAR TANDEM TIRES

Push arm frame is designed to mount behind rear tire of tandem truck (body vendor must assure proper clearance behind rear tire.).

(1) Adjustable length push arm assembly shall be required.

Push arm shall be 2-7/8" x 5/16" wall tubing over 2-1/8" cold rolled round shaft and must have shear bolt.

Front and rear cross tubes must be 7".

Heel cylinder shall be a double acting with nitride 2" rod and is mounted on the wing moldboard.

PAINT:

All metal surfaces are to be cleaned to remove slag, splatter, oxide, and oil residue.

All surfaces are to be high-pressure cleaned and degreased with phosphate solution before power coated.

Orange paint (front mast, rear support, and mounting hardware are powder coat painted black).

LIGHT:

Wing work light LED installed.

PLEASE LIST ALL EXCEPTION ON PAGE 9.

QUOTATION

Company Name and Address _____

Contact Information _____

Base Price: _____

Delivery Cost _____

Less Fleet Discount _____

Total Purchase Price _____

Estimated Delivery Date _____

Scott County of Iowa is tax exempt (42-6004465). Payment terms are net 30 from the date of delivery.

Accept Terms and Conditions Yes ___ No ___

Exception Items List

ITEM	EXCEPTION