

ATHENS TOWNSHIP

Athens County Ohio
313 W. Union St
Athens Ohio 45701
Phone (740) 592-1523 - Fax (740) 593-3899
info@athenstwp.com



May 2021

Re: Bid for Township Dump Truck Accessory Package

Separate sealed bids will be received at the township office: 313 W. Union Street, Athens, Ohio 45701 until 5:30 PM local time on **May 25 2021**, and at said time and place, publicly opened and read aloud.

Bids may be mailed or delivered in advance to the public opening at the above address. by the Athens Township Board of Trustees, Athens County Ohio for furnishing all labor, materials and equipment necessary for our Dump Truck Accessory Package

PACKAGE MUST INCLUDE:

10' Air Flo FND-10-RS-SS-U Stainless Steel Bed

***Or approved equal of similar quality and durability

- 10' Length
- 96" Overall Width
- Side height 34"
- Tailgate height 44"
- Sides and Ends Constructed of 10 GA Stainless Steel
- ¼" Stainless Steel Floor
- Stainless Steel Trapezoidal Longitudinals
- Double Acting Trunion Mounted Telescopic Hoist
- Stainless Steel Conveyor Cover Plate
- Double Bar Flight Chain
- There shall be a 1/2 cab shield supplied made of 10 Ga. 304 stainless steel extended 22-1/2" from the front of the body
- Stainless Steel Center Feedgate on Tailgate
- Air Operated Tailgate

CONVEYOR

- The conveyor to feed material rearward through the std door in the tailgate
- The conveyor to be 34" wide and recessed in the floor between the body
- Long sills
- The conveyor chain to have double-bar flighting (1/2" x 1-1/2") and welded to every link

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SPINNER ASSEMBLY

- The spinner disc to be made of 10 gauge steel and be 24" in diameter.
- It is to have (6) formed vanes. There is to be a movable, (2) piece round spinner deflector that is hinged at a 180 degrees radius to allow both the halves of the deflector to be adjusted for spread pattern. The spinner disc to be powered by hydraulic motor mounted to the bottom of the disc. The disc to be mounted to an arm which goes into a 2" receiver tube mounted on each side of pintle hook plate with pin mounting to slide in and out. Mount 2" receiver tube vertically to the end of arms to slide spinner up and down with pin mounting to hold in place.

HOIST

- To be telescopic design
- Double-acting power up and power down
- Trunion-mounted design with 1-7/8" pin
- Cylinder to be self-bleeding and to have 1/4" wall with bronze glands and pistons
- Hoist to have a capacity of 20 tons

MISCELLANEOUS

- Federal standard #108 clearance lights mounted in rubber grommets.
- Cab Mount Amber/Green Strobe Mounted on Roof of Cab
- (2) 6" Oval Amber/Green Strobes Mounted in Rear Corner Posts
- (2) Rear Mounted Stop/Turn/Tail Lights in Rear Corner Posts
- (2) Back Up lights In Rear Corner Post
- Mud Flaps to be installed in front and behind rear tires
- Tarp rail installed on both sides of body running the full length of the body
- Grab handle at top just under board and stirrup step installed on both sides of the body – step 12" down – flat section for body step
- Air operated tailgate with control valve installed in the cab
- (2) Spreader lights installed at rear under bed with switch installed in the cab
- (2) Back up spot lights on separate switch mounted on side of rear corner post
- A cover plate over the conveyor chain made of stainless steel
- 12" Oak sideboards painted same color as the body
- A body raise switch with indicator light installed in the cab
- An electric backup alarm installed at rear of truck
- Automatic on spot tire chains
- Shovel holders – one on each side
- 25 ton spring loaded – removable pintle hook
- Electric plug – round with 7 way round prongs

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- Electric brake control
- Glad hands in P.H. plate (Air lines must be ran to end of frame)

CENTRAL HYDRAULIC SYSTEM SPECIFICATIONS

LOAD SENSE

- System to be of load sensing type, pumping oil only when needed and in exact volume and pressure required. Pump to automatically revert to standby mode when no oil flow is required (no on/off switch).
- Must be able to operate all equipment on truck simultaneously if necessary no one function to interfere with any other
- System controls are to be all manual operated
- Operating speed of various function must be variable

PUMP

- Front mounted, crank shaft driven
- Capable of 19 GPM at 1000 engine RPM, minimum
- To be side ported
- Must have internal bleed-down compensator to prevent gradual pressure buildup when running in standby mode for long periods
- To have case drain for lubrication and cooling in standby mode ½” case drain line must be routed directly back to hydraulic oil reservoir, not to a return line
- There are to be two separate adjustable pressure settings at pump. One for standby pressure to be set at approximately 250-350 PSI and one for system pressure relief set at approximately 2,250 PSI

OPERATOR CONTROLS FOR HOIST AND SNOW PLOW

- To be manually operated
- Three (3) single-axis lever actuated cable controls
- Control cables to have 1/8” diameter armor wrapped stainless steel over galvanized steel core wires
- Control cable conduit to be heavy-wall high density polyethylene tube with high lubricity polymer liner
- All connections to valve spools to be enclosed and sealed with a protective bonnet
- Control levers are to be mounted beside driver’s seat so tops of handles are a fingertips when drivers arm is in normal as rest position.
- Cable-exit holes in cab floor to have rubber grommets and silicone sealer

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CONTROL CONSOLE:

- The main control console shall consist of four side panels This unit shall be mounted next to driver.
- This console shall contain the following
 - All driver actuated functions necessary to operate the central hydraulic system components.
 - All operator controlled electrical switches which operate plow lights, Whelen light, and spreader lights within easy reach of driver
- All levers control knobs and electrical switch shall be clearly marked as to their function

SPREADER CONTROL VALVE

- Gresen model QDL12A07B16-NR
 - or approved equal load sensing dual-knob spreader control valve
- To have main on/off lever
- 0-16 GPM flow conveyor chain
- 0-7 GPM flow for spinner
- To be mounted on console in cab within easy reach of driver

RESERVIOR

- 30 Gallon capacity
- To have a vertical internal baffle
- Magnetic drain plug in bottom of reservoir
- Suction and return ports to be on opposite side of baffle
- To have top opening to accommodate in tank return line filter
- Label on side of reservoir stating "HYDRAULIC OIL"

HOSES

- All hoses to be wire braid reinforced with high pressure JIC 37 degree swivel and fittings on both ends of each hose of ease in maintenance
- Hoses to front for plow raise and angle
- Hoses to rear with ½" 100% stainless steel quick couplers for spreader
- Spreader hose couplers to be installed to township's specifications
- Plastic dust plug or caps on all couplers

POWER ANGLE SNOW PLOW SPECIFICATIONS GLEDHILL MODEL 10HSBPRT-QCP-LL

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or approved equal

- Plow will be 10' lg.
- 42" high.
- # 10 gauge steel moldboard.
- Moldboard will be paneled for additional strength.
- Eight (8) ea. ½" x 3" vertical plow ribs.
- Seven (7) ea. connecting (hinge) points between table and moldboard.
- Moldboard connecting pins will be 1-1/4" diameter.
- 5/8" x 8" x 10' lg. steel cutting edge.
- ½" x 12" x 10' lg. rubber belting baffle installed on plow.
- Set of plow markers.
- Full moldboard trip plow.
- Six (6) ea. standard, open extension trip springs.
- Two (2) ea. telescopic trip post.
- Hydraulic reversible plow.
- Two (2) ea. 4" x 12" double acting reversing cylinders.
- Tube type table with front push member constructed from 5" x 5" x 3/8" square steel tubing.
- Balance of table (semi-circle) constructed from 5" x 5" x 5/16" square steel tubing.
- Tube type A-frame constructed from 2" x 4" x 3/16" rectangular steel tubing.
- Set of 10" caster wheel assemblies.
- Wheels will be height adjustable by use of hand cranks.
- QCP plow portion installed.
- Level – Lift System installed.

Gledhill Hitch Model HFF-QCP-DP-3

Or approved equal

- Hitch will be a Heavy Front Frame type design.
- Hitch will be designed to be used with front mount hydraulics.
- Hitch will come with a set of 5/8" thick custom built steel side plates.
- Hitch vertical uprights will be constructed from 4" x 4" x ½" square steel tubing.
- Standard lift beam.
- QCP hitch portion with a 3" diameter vertical drop pin installed.
- 3" x 10" double acting lift cylinder.

PLOW LIGHTS

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- Plow lights to be non-metallic housing, low profile, high low beam halogen lights with integrated park/turn light.

MISCELLANEOUS

- Power reversible
- Cushion valve installed in angling system to protect cylinders
- Swivel bar to allow plow to follow contour of road – level ride trip bar
- 12” drop down snow deflector
- Side plate hitch for pump mounting

ROLLGATE SPREADER SPECIFICATIONS

GLEDHILL 707

Or approved equal

- 10 gauge welded construction through with ¼” end plates
- 4-1/2” OD x 4” ID seamless heavy wall tube for feed roller
- 138 pieces of 3/16” x 3” key stock for activator bars
- 23 separate plates 1/8” x 4” individually spring loaded for strike off plates
- Heavy duty ball type bearing, self aligning, lubricated and sealed
- Special hi life transmission roller chain
- Overall dimensions 10-1/2” x 12-1/2” deep x 99-1/2” wide