



PURCHASING DEPARTMENT

COLE COUNTY COMMISSION

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To: All Interested Parties
From: Jennifer Prenger, Cole County Purchasing Agent
Date: May 16, 2016
Re: Addendum One to Cole County Bid No. 2016-23, Ambulance Maintenance and Repair Services

The following information hereby becomes part of the above-referenced Request for Bid and shall be fully considered in the preparation of your response.

- The second item under “Hoist- Meeting NTEA Class 20 with a Lift Capacity of 18.9 Tons” on the form titled “Dump Body and Hydraulic System Bid Specifications, Second Party Bid Form #2016-23” currently reads:**

Sub-frame to be all stainless steel.

This language is hereby removed and replaced with the following:

Standard sub frame 5” tall x 10 ft long one piece steel I-beam construction

The revised form is attached and made part of these specifications.

The bid receipt date and time HAVE NOT BEEN CHANGED; submissions will be received until Friday, June 3 at 9:00 a.m. The deadline for questions is May 27, 2016.

I/We have received Addendum Number One to Bid No. 2016-23 and have fully considered the information provided in preparing a response.

Name of Company

Agent and Title

Authorized Signature

**COLE COUNTY DEPARTMENT OF PUBLIC WORKS
DUMP BODY AND HYDRAULIC SYSTEM SPECIFICATIONS
SECOND PARTY BID FORM #2016-23**

Bid Specifications for one (1) - 5.3 CUBIC YARD STAINLESS STEEL DUMP BODY & HOIST FOR MOUNTING ON ONE NEW 89 INCH CAB TO AXLE STANDARD DUAL REAR MEDIUM DUTY TRUCK CHASSIS. Indicate ability to meet specifications; ANY EXCEPTIONS SHALL BE NOTED ON BIDDERS RESPONSE FORM.

INSTALLERS OF THE FOLLOWING EQUIPMENT MUST BE AN AUTHORIZED FACTORY DISTRIBUTOR AND SERVICE CENTER

The County has a grader mounted spreader that has to have clearance from obstacles behind the truck. The frame shall be cut off behind the spring attachment and you shall weld a steel frame plate to the frame to allow for the clearance. All lights and hydraulic couplers shall be placed behind of same level surface as the steel plate.

BODY IS CONTRACTORS TYPE:

YES NO

- Capacity to be 3.9 struck at sides and 5.3 struck at ends
- Inside length to be 10 feet
- 85 inside width 96 outside
- Side height to be 18 inches
- Tailgate height of 24 inches
- Mounting height (chassis frame to floor) 9"
- Floor to be **3/16 AR 400** steel cross-memberless design
- Head sheet to be **12ga grade 201stainless steel**
- Headset to include an integral cab shield to fit chassis all stainless steel
- Sides to be single wall and **10 ga. 201** grade stainless.
- Tailgate to be double acting **12 ga 201** stainless steel.
- The body sides shall be fold down side design with a quick release center handles.**
- All hinges and quick release hands must be stainless
- Side mounted 5/16 inch spreader and hold chains for tailgate to be furnished.
- Bottom hinge pin with grease zert to be a minimum of 1 1/4 inches in diameter.
- Tailgate to be air actuated with trip located on hydraulic control bracket between driver and passenger seats.
- Hoist lift arm connection assembly to be integral with body.
- Hoist to meet NTEA class 20 or better and have a lift off capacity of 18.9 tons, Inverted telescopic hoist will not be accepted
- Cab protector to be installed on dump body all stainless steel.
- Bed to have flush mounted strobe lights in cab shield and in rear of truck ,
- Lights in cab shield are to be installed in protective housings, and all wiring installed in conduit. Lighting package to meet all DMV lighting requirements.
- Tool box (similar or equal to Roughneck TB36AB) 36" length, 18"height, 16" depth, to be installed by dealer. Tool box to be mounted on the passenger side of truck
- Body to include rear mounted mud flaps
- Rear front of tire Mud flaps to be frame mounted in front of rear tires
- Weld a 3/8 chain hook stainless on tail gate to be used for tail gate removal.

___ ___ Tarp system: to be a pull out design as to not effect bed fold down sides made of a solid type tarp material.

___ ___ All stainless steel to remain in a natural state and remainder of body to be painted black

___ ___ Side board sockets to be provided with rough cut oak board fillers.

___ ___ Side boards to be painted black using an outside paint.

___ ___ Hydraulic Pump:

The pump shall be axial piston load sensing type.

The pump shall be 4.33 cid and capable of 42 GPM at 2500 RPM and 3000PSI.

The pump must have side ports to avoid multiple 90-degree bends in the suction line; (rear ports are not acceptable).

The pump case drain must be positioned as high as possible and directed back to the reservoir without passing through the return line filter.

The pump must have an internal bleed down compensator.

The pump must have a 1 1/4" keyed shaft and a c 2-bolt mounting flange.

Ports must be of the split flange design, 2" suction and 1 1/4" pressure and supplied with flange blocks to convert to NPT thread.

Must be similar/equal to a Rexroth model:A10V071DFR/31LPKC62N.

___ ___ Pump Drive:

The driveline must be 1280/1310 series solid shaft style.

The driveline shall come with all crosses, pump end yoke and flange for engine.

The pump shall be driven off the engine crankshaft.

___ ___ Hydraulic Reservoir:

Reservoir shall be 30-gallon minimum capacity with the breather cap mounted to an inspection lid. Inspection lid shall also provide for an in tank mounted return line filter.

Breather cap fill neck must be screened.

Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug.

Suction port will allow for installation of a 2" NPT 50 GPM suction screen. Suction screen will have a 3 to 5 PSI by-pass spring.

Reservoir must be constructed of 10-gauge steel.

As an integral part of the reservoir, there shall be an area for mounting of the hydraulic stack valve. Reservoir must be of template style for bulkhead "through" mounting of the valve and be completely free from internal tubing or hoses from the work ports and inlet of the valve.

Valve must be removable as a unit with template through the top of the reservoir for service and accessibility. Valve compartment area will have a drain tube of at least 1 1/4" in diameter and be placed to the front side the reservoir and incorporate an angled base below the valve to allow fluid and condensation to flow easily to drain tube area.

There must be three additional side access panels for further service and accessibility. All panels must have formed gaskets and be weather sealed with bottom welded mounting nuts for panels.

Mechanical cable and Electrical connections shall be made via bulkhead connectors on the front (cab) side of the reservoir.

Reservoir must be symmetrical & capable of mounting on either side of truck frame.

Must be similar or equal to model CP-RES305-VMSG-LSSGTMF-DS or -PS.

Serviceguard reservoir is acceptable.

___ ___ Hydraulic Return Filter:

Filter shall be top tank mounted type 10 microns with a by-pass and replaceable cartridge element.

Filter shall be capable of 80 GPM flow capacity.

Filter shall have one 1 1/4" NPT port with the ability to be machined for another.

A bypass condition pressure switch is required.

Similar/equal to CERTIFIED POWER model FPR2520N10NR4KXXB is acceptable.

Hydraulic Stack Valve:

The valve shall be of a mobile stackable design load sensing type.

The valve shall be capable of a nominal 35 GPM with published flow curves to 40 GPM.

The valve must be pressure and flow compensated.

Changing a valve section from single to double acting is done by replacing a shuttle cartridge.

Inlet and outlet ports to be 1" o-ring, all working ports shall be 3/4" o-ring.

Valve to be arranged as follows:

Inlet cap with pressure, tank and load sense port.

Double acting cylinder spool for hoist, with a work port relief for downside protection on port "A". Proportional 12 VDC operated.

Single acting cylinder spool for plow lift. 12 VDC bang-bang operated with adjustable section flow compensator.

Double acting cylinder spool for left/right. 12 VDC bang-bang operated with adjustable section flow compensator.

Single acting motor spool for feeder, proportional 12 VDC spring to center with manual override. Flow range or 0-15 gpm.

Single acting motor spool for spinner, proportional 12 VDC spring to center with manual override. Flow range of 0-7 gpm.

Outlet cap with pressure reducing valve and solenoid drain.

Similar or equal to Rexroth model MP18 is acceptable.

Spreader Control:

Control shall be of an open loop design ground speed controlled.

Control shall be capable of both automatic and manual modes.

The control shall have a time programmable blast feature.

Both auger and spinner shall shut-off at zero mph in automatic mode.

Shall have programmable feed rates, lane widths, valve trims, MPH and auger calibrations.

Control shall have 9 detented spread rates and 9 detented lane widths.

Control shall be capable of an optional LED remote display.

All calibrating shall be done from the front faceplate.

Control shall be reverse polarity and short circuit protected and have internal fuse.

Both valve drives shall be capable of 2.5 amps at 0-12 vdc.

Similar/equal to a model ACS freedom system by CERTIFIED POWER is acceptable.

Control Console:

Control console shall be constructed of stainless steel.

Console shall have provisions for mounted the above-mentioned spreader control. Top portion of console shall have 2 electric joysticks mounted in it.

Hoist stick shall be 12 VDC proportional control with a neutral Dead Man lock.

Plow stick shall be a dual axis design 12 VDC on/off with a detent in the down position for plow float.

Snow plow control system as to have a plow balancer valve included to control the weight of the snow plow cutting edge, this valve to be adjustable and a intergraded part of the valving system.

The console shall also come with 6 switch functions to operate the following:

Master on/off

Plow Lights Hi/off/Low

Strobe Light

Spreader Light

Aux
 Low Oil/Change Filter indicator
 All switches shall be rocker design with engraved backlit lenses for function.
 All connections shall be made on the bottom of the console and be twist lock amp connectors.
 All cables necessary shall come with console.
 Console shall be between the seats easily reachable by the operator, mounted on eight inch square tublar style stand.
 Similar/equal to Storm guard model SG2035XFX by Component Technology is acceptable.
 Hydraulic hoses:
 All hydraulic hoses and couplings for snow plow and cinder spreader to be included.
 Water tight electric enclosure:
 A water tight enclosure to be frame mounted with all electric components for Tarp, snow plow and cinder spreader controls .

HOIST- MEETING NTEA CLASS 20 WITH A LIFT CAPICITY OF 18.9 TONS:

YES NO

- Hoist must be manufactured in such a manor so as to prevent oil from escaping at the cylinder base.
- Sub-frame to be all stainless steel.
- Dumping angle to be not less than forty(40) degrees.
- Hinge pins for hoist to be removable
- Standard OSH equipment to be included

ATTACHMENTS TO DUMP BODY:

YES NO

- Tool holder to made of 3/4 inch stainless rod welded to the dump body on the left and right side of the body. Location of rod is 12 inches above the horizontal boxed section of body. Rod to be welded to each vertical support.
- A drivers side ladder will be made of 3/4 inch stainless rod with tread grips on each rung. The width of the ladder shall be twelve (12) inches with rungs starting eighteen (18) inches above the ground. A ladder rung shall be placed twelve (12) inches above the bottom rung and the next rung at 8 inches. The tool holder will be used as the fourth step.

ATTACHMENTS TO FRAME AND BUMPER:

YES NO

- Two (2) rear tow hooks installed per county location.
- 1/2 inch steel plate welded to back frame with hose connections and air activied 90,000 lb. pintel hitch.

COLOR:

YES NO

___ ___ All stainless steel to remain natural all other steel to be painted black **BLACK in color.**

OPTIONAL EQUIPMENT:

YES NO

___ ___ **OPTIONAL SNOW PLOW** to be similar or equal to a Henke 30R11IS Snow plow 11 feet wide and 30 inches tall. Plow to have eight curved vertical ribs, moldboard to have a integral shield which will constitute the mold board face 19 inches forward of the cutting edge. Plow to have a 8 inch cutting edge and a full moldboard trip. A single section 11 ft. by 12 inch rubber shield shall be installed on top of moldboard. Circle push frame shall consist of a 3 1/2 x 3/1/2 x 3/1/2 steel angle rolled in an arc spanning 66 inches. The A-frame will be constructed of 4 inch channel, Trip springs shall be of an enclosed spring trip. The enclosed spring trip consists of an outer housing with two inner compression springs, The outside inner compression spring shall be 5 3/8 in diameter, 19 7/8 long. The inside inner compression spring shall be 3 3/8 in diameter and 19 5/8 long. Plow shall have two, three inch bore reversing hyd. Cylinders and equipped with quick couplers. Standard cutting edge are 1/2 thick x 8 inches tall AASHTO standard punched. Plow to have a universal quick hitch lift frame made of 1/2" x 3" x 4" structural angle. The lower receiving boxes to have stationary welded pins of cold rolled steel. 1 1/2 in diameter and the lower braces for the lift frame are to be 1" x 3" and if adequate length to attach to the chassis above the front axle. All cylinder pins are to be 1" cold roll steel. Lift group must allow the hood on the truck to be opened without removing an of the plow lift group. The lift group to have a telescoping lift arm the lift tube shall be a 3" x 3" x 3/8" steel tube approximately 23 inches long and have four pin positions. Plow lift group to have a double acting cylinder to work with the plow balance valve. **Prices to include installation**

___ ___ **OPTIONAL CINDER SPREADER** to be a self contained stainless steel tailgate spreader for mounting on above spec. single axle dump truck, unit to have a 9 inch gear driven auger. And an opening trough made of 7 gauge stainless steel and 1/4 inch end plates with chain slots for easy removal. Spreader to be a Quick disconnect mounting unit to included end spill shield to eliminate material loss between dump body and spreader. Spinner assembly to be a 18 inch removable spinner direct drive spinner assembly to be adjustable for variations of spread patterns which can be made from right to center and left to center will remaining parallel to the road and all dump angles. All hyd. hook ups to use quick couplers for easy removal. Unit to have a plate to cover auger, for rock hauling without removing the unit from the truck body. **Prices to included installation**