



SHAWNEE COUNTY

REQUEST FOR PROPOSAL (RFP)

Quotation Number: 053-23
Date Issued: 10-17-2023
Closing Date: 11-03-2023, 2:00pm

Vendor Name: _____
Address: _____
Phone Number: _____

THIS IS NOT AN ORDER

1. In communications, always refer to the above quotation number.
2. All prices and conditions must be shown. Additions or conditions not shown on this bid will not be allowed.
3. Shawnee County reserve the right to accept or reject any part of, or all of, any bid or proposal.
4. All prices quoted are to be less Federal Excise Tax and Kansas Sales Tax.
5. Price quoted shall remain firm for ninety (90) days after bid closing date.

SHAWNEE COUNTY HAS AN ELECTRONIC BID SYSTEM

All vendors are required to create an online portal account (www.snco.us/purchasing) in order to receive or submit bid requests.

ITEM AND DESCRIPTION

Shawnee County is soliciting sealed bids for 4 (four) 2024 Heavy Duty Diesel Truck chassis with a 22-yard Side Loader Body per the following minimum specifications.

GENERAL SPECIFICATIONS

Truck Specifications:

Bidders must check all line items under the columns marked – “Comply or Alternate.” Alternates to the following specifications must be explained in detail. Alternates must be detailed on a separate page and referenced to the appropriate section number. Failure to furnish this information may be cause for rejection of the bid. Manufacturers’ brochures will not suffice.		
	Comply	Alternate
1.0 VEHICLE CONFIGURATION		
1.1 Low Cab Forward Truck (STEP OUT CAB)		
1.2 RH sit drive		
1.3 Unit must be manufactured in the USA		
1.4 Comply with all 2021 DOT regulations		
2.0 TRUCK SERVICE		
2.1 Refuse		

2.2	Side Loader		
2.3	Chassis bidder responsible for working with winning body bidder to ensure compatibility		
3.0	ENGINE		
3.1	CUMMINS L9-380hp @ 2100 RPM/1250 FT-LBS – (or PX-9)		
3.2	Ultra Low sulfur Diesel fuel		
3.3	Must be a 2021 EPA compliant engine		
4.0	ENGINE EQUIPMENT		
4.1	50 State certified diesel engine		
4.2	ENGINE ELECTRONICS---Cummins Diesel (or PX-9)		
4.3	ENGINE IDLE SHUTDOWN---Engine idle shutdown enabled—15 minutes		
4.4	ENGINE PROTECT SYSTEM/WARNINGS-Audible/visual alarm: LOP.HT, LWL		
4.5	FILTER-FUEL, - fuel/water separator with heat		
4.6	ENGINE OIL SAMPLING PORT		
4.7	ENGINE BLOCK HEATER--- 120V, minimum 1000 Watt		
4.8	RADIATOR – 1200 sq. in minimum single radiator w/Extended life coolant		
4.9	AIR CLEANER---15” air cleaner		
4.10	MUFFLER SYSTEM---Horizontal DPF w/ LH Vertical stack		
4.11	EXHAUST SHIELDS---DPF & SCR shields		
4.12	EXHAUST STACKS---on LH side w/vertical diffuser, single stainless steel, must not completely block rear window for visibility		
4.13	RH ENGINE/EXHAUST COVER---aluminum turbo/exhaust pipe debris shield		
4.14	AIR COMPRESSOR---Cummins Wabco 18.7 cfm compressor		
4.15	ALTERNATOR---Delco Remy 12V 160 amp 36SI		
4.16	BATTERY---(3) 31ECL 12V, minimum 2850 CCA		
4.17	STARTING MOTOR---12V 39MT W/OCP or equivalent		
4.18	High mounted Urea tank as not to interfere with body components-7 gallon min		
4.19	Battery disconnect switch connections must be enclosed and protected from outside elements		
4.20	Primary fuel filter MUST be easily accessible. Interference from wiring harnesses and hoses will not be acceptable.		
5.0	TRANSMISSION		
5.1	VOCATION---RDS Refuse—VOC 400-XXX		
5.2	CONTROL MODULE---Basic refuse GRP105, VP142		
5.3	TRANSMISSION---Allison 4500RDS Series, 6-speed		
5.4	COOLER-TRANSMISSION OIL---oil to water type		
5.5	TRANSMISSION LUBRICANT---Allison approved synthetic auto trans fluid		
5.6	ALLISON FUEL SENSE 1.0 --- Transmission programming		
5.7	DRIVESHAFT-MAIN---Spicer 1760HD half round		
5.8	NOT transmission mounted PTO – Front crankshaft mounted Hyd Pump		
5.9	Transmission oil sample port mounted on bracket required		
6.0	FRONT AXLE AND EQUIPMENT		
6.1	FRONT STEER AXLE-Meritor Wide track, 20,000 # capacity, 45 deg cut		
6.2	FRONT SUSPENSION---20,800 springs.		
6.3	SHOCK ABSORBERS FRONT---Double acting single—heavy duty		
6.4	POWER STERRING RESERVOIR---Four quart remote mounted		
7.0	REAR AXLE AND EQUIPMENT		

7.1	REAR DRIVE AXLE---Tandem Arvin Meritor RT46-160, 5.63 ratio		
7.2	REAR SUSPENSION---Hendrickson HMX-460, 46,000 haulmax, no exceptions		
7.3	Inter axle lock to be provided		
8.0	BRAKE SYSTEM		
8.1	BRAKE CONTROL SYSTEM---Bendix ATC		
8.2	BRAKES-FOUNDATION, FRONT AXLE---Bendix 17" Air Disc Brake		
8.3	BRAKE, SLACK ADJUSTER---N/A		
8.4	DUST SHIELDS---Front and Rear brakes		
8.5	BRAKES-FOUNDATION, RR AXLE-----Bendix 17" Air Disc Brake		
8.6	BRAKE CHAMBERS-PARKING---		
9.0	CHASSIS		
9.1	WHEELBASE---182" or as needed for tank and body installation		
9.2	FRAME RAILS---10.76" x3.50" x0.375"		
9.3	SECTION MODULUS---28.9 minimum		
9.4	RBM RATING---3.4 million minimum		
9.5	FRAME BOLTS---Huckspin RR Susp and cross members		
9.6	FUEL TANK-Min 75 gallon Aluminum Diesel		
9.7	TOWING DEVICE-FRONT---Two removable tow pins		
9.8	AIR DRYER EQUIPPED		
9.9			
9.10	AIR RESERVOIR DRAIN SYSTEM---Central air drain manifold		
9.11	BATTERY SHUT OFF SWITCH---Battery shutoff w/lockout		
9.12	WIRING, BODY INTERFACE---BODYBUILDER JUNCTION BOX @ BOC		
10.0	CAB EXTERIOR		
10.1	CAB MATERIAL---Steel Understructure with aluminum skins and fiberglass roof		
10.2	CAB SIZE---116 Cubic feet interior room, minimum		
10.3	CAB VISIBILTY--FRONT---Wrap around windshield design		
10.4	CAB VISIBILITY---REAR---Must have rear window and Rear corner windows---required for operational visibility		
10.5	DOOR HINGES---Piano style non-adjustable will be accepted		
10.6	STEP-CAB ACCESS-- self-cleaning entrance steps		
10.7	CAB DOORS---Steel, Aluminum skins acceptable		
10.8	POWER WINDOWS---dual electric windows		
10.9	MIRRORS---Dual MOTO, west coast, heated, LH & RH power control		
10.10	MIRROR ARMS---Retractable arms---stainless steel		
10.11	MIRRORS---AUXILIARY---Two 8" convex, one above, one below, each side		
10.12	N/A		
10.13	GRAB HANDLES---Dual S/S grab handles		
10.14	HORN---AIR(s) mounted under cab		
10.15	CAB TILT MECHANISM---Hydraulic tilt with air assist---minimum of 60-degree cab-tilt angle---required for serviceability		
11.0	CAB INTERIOR		
11.1	STEERING- RH steer, factory installed tilt steering		
11.2	SEATS-----Air ride Low back w/Cordura cover		

11.3	CLIMATE CONTROL---Air conditioning integral with heater/defroster-Roof mount not acceptable		
12.0	GAUGES & INSTRUMENTATION		
12.1	ELECTRONIC TACHOMETER W/HOUR METER		
12.2	ELECTRONIC VOLTMETER		
12.3	ELECTRONIC ENGINE OIL PRESSURE GAUGE		
12.4	Must provide dash mounted diagnostic indicator capable of reading and displaying engine and ABS fault codes, as well as displaying real time DPF soot levels		
12.5	ELECTRONIC FUEL LEVEL GAUGE		
12.6	ELECTRONIC ENGINE COOLANT TEMP GAUGE		
12.7	SAFETY VISION 4 CAMERA VISION		
13.0	LIGHTING		
13.1	LAMPS-TURN SIGNAL, FRONT---LED front turn signals		
13.2	LAMPS-MARKER---Amber LED roof markers		
13.3	LAMPS-PARKING---Corner LED marker lamp wired to battery shut off		
13.4	LAMPS-RUNNING---Daytime LED without park brake de-activation		
13.5	CIRCUIT PROTECTION DEVICE---Auto circuit breakers		
14.0	RADIO/MISC		
14.1	KEY AND LOCK SETS---2 additional keys per truck—4 total		
14.2	RADIO---AM/FM Bluetooth radio, roof mtd. With 2 dual cone speakers		
14.3	12V Positive and ground connections for 2-Way radio		
14.4	FIRE EXTINGUISHER-- Dry type ABC 5lb. cap. Mtd in cab under driver's seat		
15.0	FRONT TIRES/ WHEELS		
15.1	HUB CAPS---CR Zytel style hubcaps		
15.2	WHEEL OIL SEALS---Scotseal Plus XL—front and rear or equivalent		
15.3	HUBS FRONT---Steel hub piloted, 285MM bolt circle		
15.4	WHEELS-DISC-FRONT---22.5 x9.0 steel		
15.5	TIRE SIZE & LOAD RANGE-FRONT---315/80R22.5 L-20PR tubeless type radial		
15.6	TIRE MANUFACTURER & TREAD-FRONT---Goodyear G289 or approve equal—rated to 10K		
16.0	REAR TIRES/ WHEELS		
16.1	HUBS-REAR---Iron hub, HP 10 stud		
16.2	WHEELS, DISC-REAR---22.5 x 8.25 Steel		
16.3	TIRE SIZE & LOAD RANGE---11R22.5 16 ply		
16.4	TIRE MANUFACTURER & TREAD-REAR---Goodyear G182 or approved equal		
17.0	PAINT		
17.1	SINGLE COLOR PAINT to County's color specification		
17.2	White Cab, Blue Body		
18.0	ADDITIONAL OPTIONS		
18.1	CHASSIS WARRANTY---Min 5 year complete cab & chassis		
18.2	TRANSMISSION WARRANTY---Allison 5 year warranty		
18.3	Engine warranty—5yr base engine warranty		
18.4	ENGINE EXTENDED WARRANTY---5 yrs/150,000 miles to include turbo and injectors and after treatment		

18.5	EXHAUST AFTERTREATMENT EXTENDED WARRANTY - 5 yr from Cummins		
18.6	MANEUVERABILITY---Bidder must include turning radius of truck as specified---REQUIRED		
18.7	POST SALE SUPPORT --- Bidder must include lifetime 24 hour technical Support of their chassis available online or by phone.		

STEERING: Turning diameter of chassis is not to exceed 82.5 feet to corner of bumper right or left. **TURNING RADIUS MUS BE STATED IN BID.**

SPECIFICATIONS FOR HIGH COMPACTION AUTOMATED REFUSE COLLECTION TRUCK BODY

INTENT:

This specification describes a hydraulically actuated packer body with a mechanical lifting device capable of handling 30 to 300 gallon refuse containers. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispensing the load by means of hydraulically ejecting the load from the body.

GENERAL TERMS:

The manufacturer of all equipment provided under this contract shall be ISO 9001-2008 certified. All equipment furnished under this contract shall be new, unused and the same as the manufacturer's current production model. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Body shall be made in the United States of America. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units as specified in this invitation to bid. The equipment furnished shall conform to ANSI Safety Standard Z245.1-2012.

WARRANTY:

Unit shall include a one-year complete body warranty as standard. This warranty will cover part and labor and not to include wear items. The lift arm shall come standard with a two-year limited structural warranty. This warranty applied to structural, non-wear components. Bidder shall state his normal warranty and extended warranty where available

PARTS MANUAL:

Bidder shall furnish a complete part's, maintenance, and operator's manual with each body sold.

BID QUOTATION:

Bidder shall complete every space in the specification bidder's proposal column with a check mark to indicate if the item being bid is exactly as specified. If not, the "NO" column must be checked and a detailed description of the deviation from the specification to be supplied.

Bidders must check all line items under the columns marked – "Comply or Alternate." Alternates to the following specifications must be explained in detail. Alternates must be detailed on a separate page and referenced to the appropriate section number. Failure to furnish this information may be			
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cause for rejection of the bid. Manufacturers' brochures will not suffice.		Comply	Alternate
1.0 CAPACITY			
1.1	The packer body shall have a capacity, excluding the hopper, of not less than 22 cubic yards		
1.2	The hopper shall have a capacity of five and two tenths (5.2) cubic yards		
1.3	The structural integrity of the body shall allow high density loading of up to 1,000 pounds per cubic yard of normal refuse		
2.0 BODY DIMENSIONS			
2.1	Maximum outside width shall be 96"		
2.2	Maximum overall length of the 22 cubic yard body, tailgate and loader assembly combined shall not exceed 255"		
2.3	Maximum inside body width shall be 91"		
2.4	The maximum inside body height shall be 85"		
2.5	Hopper width shall be 85"		
2.6	Hopper length shall be 67"		
2.7	Hopper depth on the curbside, including 6" rubber flap, shall be 70"		
2.8	Hopper depth on the street side shall be 70"		
3.0 BODY CONSTRUCTION			
3.1	The body interior shall have a smooth flat floor without a trough. The sides and roof shall be smooth curved construction. All materials shall be steel unless otherwise specified.		
3.2	In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.		
3.3	Body sides and roof shall be of curved stress skin construction interfacing with the corner mainframe bolsters. All sidewall and roof members shall be continuous welded.		
3.4	Floor shall be flat full width and shall not have inboard guide rails or a trough. The floor shall be a minimum .1875", AR400 abrasion resistant plat steel with typical 184,000 PSI tensile strength and typical 145,000 PSI yield strength and shall be reinforced with one piece full width and interlaced 3" x 6" x 10 ga., 80,000 PSI typical yield channels nominally located on 18" centers so as to withstand continuous operation at maximum imposed loads without harmful deformation or excessive wear. All body floor members shall be continuous weld.		
3.5	Body roof shall be minimum 8 ga., 80,000 PSI typical yield hi-tensile steel sheet fully welded to a full length 8 ga. inner and 11 ga. outer, 80,000 PSI typical yield roof crown rail to contain and dissipate forces equally through the body structure. Front and rear lateral roof bow shall be 2" x 8" x .25", A500, Gr. B, 46,000 PSI typical yield.		
3.6	Body sides shall be a minimum 8 ga., 80,000 PSI typical yield hi-tensile steel sheet fully welded to a roof crown rail and to the 4.7" x 18" floor skirt rail.		
3.7	Rear mainframe body side bolsters shall be a minimum of 3" x 20" at the mid span section and 5" x 20" at the major upper and lower connecting points of the mainframe. The bolsters shall be contour shaped to the sidewall and formed from minimum 7 ga., 80,000 PSI typical yield steel. The front mainframe body side bolsters shall be a minimum of 3.7" x 8.6" at the mid span section and 5" x 8.6" at the major upper and lower connecting points of the mainframe. The bolsters shall be contour shaped to the sidewall and formed from minimum 8 ga. x 80,000 PSI typical yield steel. The reinforcement bolsters shall be fully welded		

to the curved body side sheets.		
3.8 Floor longitudinal long members shall be 2x2x1/4" square tubing, 80,000 PSI typical yield.		
3.9 Packer panel guide rail bottom edge shall be located 11" above floor with 6" chrome guide rail		
3.10 The body and attaching parts shall be sealed with Urethane adhesive and Cavity Coat for rust prevention protection.		
3.11 The body shall be undercoated with a Valve guard V6104 material to provide protection to the underside of the refuse body. Or equivalent.		
4.0 HOPPER CONSTRUCTION		
4.1 Hopper shall be of flat floor and straight vertical sidewalls. Hopper shall be designed to properly handle thirty (30) gallon through three hundred (300) gallon automated side loader carts.		
4.2 Hopper long members shall be 2x2x1/4 square tube, 80,000 PSI typical yield strength or equivalent.		
4.3 Hopper floor shall be constructed of a .25" AR400 abrasion resistant plat steel with typical 184,000 PSI tensile strength and 145,000 PSI typical yield strength.		
4.4 Hopper sides shall be constructed of minimum .1875" AR400 abrasion resistant plat steel with typical 184,000 PSI tensile strength and 145,000 PSI typical yield strength.		
4.5 A hopper sump shall be provided in forward floor area of the hopper. Sump shall have a 40 gallon minimum capacity and have dual clean-out doors, 14.5" wide x 7" high, on each side of the body. A tool, with hanger brackets, for easy cleanout shall be provided.		
4.6 An access door opening, 26.75" wide x 36.25" high, shall be provided on hopper left hand side wall. Folding steps and grab handles shall be provided to ease entry. Or equivalent hopper entry provided.		
4.7 The front of the hopper, forward of the packer mechanism, shall be accessible by removing a 79.75" wide x 36" high expanded metal screen.		
5.0 PACKING MECHANISM		
5.1 A hydraulically actuated packer traversing a minimum of 60", while packing, shall clear the hopper of material with a maximum cycle time of fourteen (14) seconds. A proximity switch will automatically reverse the packing cycle and return the packing panel to the front head. An automatic back-up reversing means shall be provided should the packing panel be unable to reach the rearmost packing position of 60".		
5.2 The packing panel face sheet shall be constructed of a minimum .25", 80,000 PSI typical yield, and abrasion resistant steel plate.		
5.3 A spill shield, fabricated from 11 ga., 50,000 PSI typical yield steel shall be affixed to the top of the packing panel.		
5.4 The packer panel and spill shield shall be reinforced with a combination of structural members for maximum rigidity.		
5.5 N/A		
5.6 Top wear bar on hopper zone guide rail shall have the following dimensions, .25" thick x 2" wide, 145,000 PSI typical yield, AR steel.		
5.7 Side wear bar on the hopper zone guide rail shall have the following dimensions, .25" thick x 2.5" wide, 145,000 PSI typical yield, AR steel.		
5.8 Bottom wear bar on the hopper zone guide rail shall have the following		

	dimensions, .25" thick x 2.5" wide, 145,000 PSI typical yield, AR steel.		
5.9	The guide perch on each side of the packer panel shall be 4.5" x 85' x .25" Hardox, minimum.		
5.10	Top wear bar, .25" thick x 2" wide x 3" long, 145,000 PSI typical yield, AR		
5.11	Side wear bar, 3/8" thick x 2-1/2" wide x 35" long, 145,000 PSI typical yield, AR steel.		
5.12	Bottom wear bar, .375" thick x 3.5" wide x 35" long, 145,000 PSI typical yield, Chromium. Or equivalent		
5.13	N/A		
5.14	The body front head shall also be provided with bolt-on lugs for packing cylinders. The lugs shall retain each cylinder pin with six (6) .75" diameter bolts.		
5.15	The packer will be hydraulically actuated by two (2) double acting multi-stage cylinders having chrome plated tubes, and shall have spherical bearings on both ends with the dimensions: 22 yd ³ - 5.5"x4.5"x3.5" bore x 151" stroke		
5.16	Packing force shall be a minimum of 61,000 pounds. Cylinder force shall be a minimum of 71,000 pounds.		
5.17	The packer shall be designed to allow dumping of a container regardless of the position of the packing panel during the compaction cycle.		
5.18	The packing mechanism shall be capable of extending to the rearmost end of the body, past full pack position, to provide off-loading function when the tailgate is raised.		
5.19	The Packer cylinder grease zerks that are located on the rod and base end shall be equipped with a remote lube system that is accessible from the ground		
6.0 TAILGATE			
6.1	The 1 cubic yard tailgate must be one piece top hinged, and shall hydraulically open approximately 30° above horizontal.		
6.2	Tailgate shall be constructed of a minimum 10 ga., 80,000 PSI typical yield on rear and side walls.		
6.3	The bustle tailgate shall be reinforced by a minimum 12 ga., 80,000 PSI typical yield horizontal boxed brace.		
6.4	The tailgate will be secured to the body by two (2) sets of hinges with 2" hinge pins at the roof line.		
6.5	A heavy duty rear door positive seal of rubberized gasket material shall be installed the full length of the bottom and 56.5" up sides of tailgate to prevent leakage.		
6.6	The tailgate shall be raised and lowered hydraulically actuated by two (2) double acting cylinders with a minimum 2.5" bore x 25.25" stroke x 1.5" diameter chrome plated rod. Cylinder design shall include an orifice fitting in the base port, which shall prevent rapid descent of the tailgate in the event of a hydraulic failure.		
6.7	The tailgate shall be locked by two (2) cylinders having a minimum 2.5" bore x 1.5" diameter hardened chrome plated rod x 25.25" stroke.		
7.0 LIFTING MECHANISM			
7.1	The lift base shall support the lift arm, the dump arm, the level pivot, the level link, the pivot link, and the reach link. The lift base shall rest atop the chassis frame rails for superior vertical distribution of loads induced into the chassis frame rails. Lift mechanisms mounted alongside the chassis frame will not be accepted. The lift base shall consist of a .75" x 16" x 61", 50,000 PSI		

typical yield, surface plate for chassis frame mounting and shall be reinforced by four (4) vertical ribs for rigidity and arm pivot placement. The ribs shall utilize .75" x 6.5", 50,000 PSI typical yield steel. The front-to-rear mounting length shall not exceed 18".		
7.2 The lift arm shall consist of a 4.5" x 9.5" fabricated structure with a 4" x 3" structural tube to serve as support for the dump arm.		
7.3 The dump arm shall consist of a 4" x 3" structural tube that will support the appropriate grabbers determined by local demands.		
7.4 The level pivot shall be a fabricated channel with a 4.7" web x 8.2" flanges x .25", 50,000 PSI typical yield steel.		
7.5 The level link shall be a 1.5" x 3" x 0.188" structural tube machined at each end for steel spherical bearings and two (2) 1.5" x 4" TGP pins		
7.6 The pivot link shall be a 3" x 3" x 0.375" structural tube machined for a Connex steel bushing of AISI 615C on the top end, and a 2" spherical bearing on the bottom end. The Connex bearing shall be sealed by (2) Garlock 9220, "U-cup" 90 durometer urethane seals. Both ends shall be supported by two (2) 2" x 3.5" TGP1045RC55-NOM24RMS pins.		
7.7 The reach link shall consist of two (2) parallel 3" x 5" x .375" structural tubes linked midspan and properly lined bored each end for four (4) Connex bushings of AISI 615C, sealed by two Garlock 9220 "U-cup" 90 durometer urethane seals, and supported by one (1) 3" x 14.5" TGP1045RC55-NOM24RMS upper pin and one (1) 3" x 13.4" TGP1045RC55-NOM24RMS lower pin.		
7.8 The lifting mechanism shall be capable of lifting containers ranging from 30-300 gallons at level container placement, and shall be capable of extending, grabbing, raising, dumping, and returning a container from any position without the need to "retract" the lift arm and shall perform the following lift cycle functions in approximately eight (8) seconds at engine idle.		
7.9 The lift shall be powered by three (3) hydraulic cylinders with cushions at each end of the stroke.		
7.10 The raise and reach cylinders shall have hardened and chrome plated rods. Control valves shall be direct acting, feather-able, air actuated.		
7.11 The lift mechanism shall traverse the container from the point of engagement to the elevated and rotated position of discharge through a compound elliptical curve devoid of abrupt directional changes and high gravity forces to preserve container structural integrity and greatly reduce container maintenance.		
8.0 HYDRAULICS		
8.1 The maximum operating pressures shall be 2500 PSI.		
8.2 The hydraulic system shall operate at an acceptable temperature without the need for external hydraulic oil cooling devices.		
8.3 The hydraulic pump shall be a front engine, crank driven, Gear type pump with electronic over-speed control. The combined flow shall be 28 GPM @ 800 RPM. The lift operation shall be limited to 18 GPM @ 800 RPM. The pump shall combine flow to 44 GPM @ 1200 RPM in order to operate the packer panel pump. Pump shall comply with specification 219-2305 or equal.		
8.4 All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise.		
8.5 All hydraulic hoses shall conform to SAE standards for designed pressure.		
8.6 The hydraulic reservoir shall have a 50 gallon gross capacity and a 45 gallon net capacity.		

8.7	The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, oil level sight and temperature gauge, and suction line shut-off valve.		
8.8	The hydraulic system shall be protected by a three (3) micron, in tank, return line filter along with a 100 mesh (140 micron) reusable oil strainer in the suction line.		
8.9	The return line filter shall also include an in-cab filter by-pass monitor, which shall alert the operator or service personnel when the filter is in need of replacement.		
8.10	A hydraulic pump shut down system shall also be included, which shall prohibit prolonged operation of the hydraulics when the filter is in the by-pass mode.		
9.0 LUBRICATION			
9.1	All body hinges, cylinder rod ends, cylinder base trunnions and high cycle pivot points shall be supplied with grease fittings.		
10.0 CONTROLS			
10.1	The controls shall be of electric over hydraulic and located in the cab convenient to the operator		
10.2	The reach and lift shall be electric over hydraulic for the x-x axis and y-y axis functions to be controlled by appropriate movement of the joystick.		
10.3	The grabber functions shall be electric over hydraulic and shall be controlled by thumb switches on the upper portion of the joystick.		
10.4	The lift controls shall be self-centering type, returning to the neutral position when released. These controls shall direct oil flow via a three (3) section "on-command" valve.		
10.5	N/A		
10.6	The packer button controls shall be electrical push buttons located in the cab convenient to the operator. Separate push buttons shall be provided for "Pack" and "Retract" to provide complete packer panel movement control in either direction. Pushing the "Pack" button shall automatically extend and retract the packer panel for a complete cycle.		
10.7	An emergency on/off button shall be provided to stop packer panel movement during the extend or retract cycles.		
10.8	Tailgate raise and tailgate lock controls shall be individually controlled by Electric over hydraulic with switches inside the cab.		
11.0 ELECTRICAL			
11.1	A mobile controller with control center and display shall be provided in the cab to monitor system functions and operation of the truck. This controller shall be able to withstand the vibration, moisture, dirt ingress, and climate variations that are present in the cab of the vehicle. The controller shall use solid-state technology with no mechanical relays or switches inside the controller. This controller shall use IEC 61131-3 software and will have SAE J1939 built into the controller for communication to the vehicle powertrain. The mobile controller shall be installed inside the truck cab and shall display self-diagnosing error codes in readable text format which identify the potential trouble source. Both audio and text alerts must be made available to aid in locating trouble source.		
11.2	All electrical wiring connectors to be automotive double-seal, with wiring in split convoluted loom. All wiring connections to be soldered with rubber molded covering or crimp type connectors with shrink wrap. Unprotected wiring		

in any application is unacceptable.		
11.3 All switches not manually operated shall be proximity in type. Mechanical switches are not acceptable.		
11.4 A control panel light shall be provided to warn the driver/operator any time the lift is not fully stowed.		
12.0 LIGHTING		
12.1 Clearance, back up, and directional lights shall be Lexan lens, shock mounted in a protective housing. The entire unit shall be flush mount, replaceable pop out style.		
12.2 All lights shall be LED and provided in accordance with FMVSS#108, plus mid body turn signals on each side of the body and a center brake light on the rear.		
13.0 REAR UNDERRIDE AND TIRE GAURD		
13.1 The body shall be equipped with a rear under-ride guard as standard equipment to meet Federal Motor Carrier Safety Regulation 49CFR393.86, TTMA RP No. 41-02, and SAE J682 Oct84.		
14.0 PAINTING		
14.1 First Step – Smoothing - All weld slag, splatter or roughness shall be removed with the appropriate hand tools. No sand, shot or glass air blasting shall be permitted to eliminate contamination and possible damage to bearings or pin surfaces and possible distortion of higher gauge sheet materials used on the body.		
14.2 Second Step – Purgation - A heated pressure wash shall drench the entire body with a silicate alkaline phosphate based pre-cleaner to clean all metal surfaces. This solution shall soak through and break down the oil film and other contaminants found on steel. The solution shall be non-corrosive to metals and shall be environmentally friendly. Or equivalent.		
14.3 Third Step – Pre-Treatment – An organically accelerated phosphoric acid based pretreatment will be applied to all metal surfaces. This step provides a chemical conversion coating which changes the chemical and physical nature of the surface by providing a surface that the next application (prime) will adhere to.		
14.4 Fourth Step – Sealing - The entire body shall be coated with an application of the patented Dry-In-Place Seal from Henkel Surface Technologies. This process shall dramatically improve the surface finish's resistance to rusting that occurs from general wear and tear, and shall provide improvements to paint adhesion and other related corrosion that occurs over the life of the products. This shall help retain the "as new" appearance of the factory paint surface.		
14.5 Fifth Step - Primer Coat Paint - The seal coat shall be painted using DuPont Corlar - a high performance, low VOC/HAPS epoxy polyamide primer-sealer. Corlar is a two-component gray primer-sealer that is lead and chromate free. This shall be applied in an amount necessary to achieve a dry film thickness of 1.2 mil.		
14.6 Sixth Step - Finish Top Coat Paint - A high luster finish coat shall be applied using DuPont Imron Elite – a high-performance, low VOC (<3.5 lbs/gal RTS) two-component polyurethane enamel. An ample amount shall be applied to achieve a dry film thickness of 2 mil and shall result in a finish of 3.2 mil minimum film thickness.		

GENERAL SPECIFICATIONS:

PRE-DELIVERY SERVICE:

The Truck Chassis & Automated body and all components shall be free of leaks and fully operational with all adjustments made prior to delivery.

REPAIR AND PARTS MANUALS:

Supplier shall furnish one set of repair, service and parts manuals. A paper copy and thumb drive for each of the Truck chassis and packer body. This will include the, engine, SCR system, electrical, drivetrain, transmission, brakes, lights & hydraulic system of the packer body.

TECHNICAL SERVICES:

Supplier shall provide the services of a competent technician thoroughly trained in the use, operation, preventive maintenance of the Truck & Side-loader body for a period of one working day. Company shall employ a dedicated and industry trained field service specialist to provide phone support, onsite support and training of supplied products. Said technician shall instruct county personnel in the proper use of Truck & Side-loader body, safety and maintenance beyond the (In-Service) day that the Truck & Side-loader body is delivered.

WARRANTIES:

Bidder shall furnish with their bid a copy of the standard factory & extended warranties.

DELIVERY:

Delivery shall be within **180 calendar days from the date a Purchase Order is issued to the Vendor**. Delivery shall be to: Shawnee County Maintenance Shop, 1515 NW Saline Street; Topeka, Kansas.

LIQUIDATED DAMAGES:

Owner and Vendor recognize that time is of the essence of this Purchase Agreement and that Owner will suffer financial loss if the Equipment is not completed/delivered within the time specified. They also recognize the delays, expense and difficulties involved in proving in legal proceedings the actual loss suffered by Owner if the Equipment is not completed and delivered on time. Accordingly, instead of requiring any such proof, Owner and Vendor agree that as liquidated damages for delay (but not as a penalty) Vendor shall reduce invoice amount submitted to Owner by \$ 50.00/day for each calendar day over the 150 days that Equipment is not received.

**TITLE: All titles shall be made out to; Shawnee County, 200 E 7th,
Topeka, KS 66603. Shawnee County is requiring the vehicle to have a
temporary 60 day tag included from day of delivery.**

BID RESPONSE

BID RESPONSE:

The bid response shall include complete warranty/product support information, including printed manufacturing specifications, published literature, and photos or illustrations of units that the bidder proposes to furnish.

EXCEPTIONS: Any exceptions or variances to the exact bid specifications stated herein shall be listed on a separate page clearly marked "Exceptions:" **Failure to do so may result in rejection of the bid.**

BID EVALUATION:

The County reserves the right to reject any bid. Bid evaluation criteria will include, but not be limited to the following:

1. Compliance to bid specifications
2. Purchase price
3. Warranty terms
4. Ability to meet delivery schedule specification
5. Location of nearest dealer/repair facility

If additional information is required on items listed, please **submit questions through the online bid portal.**

PLEASE SUBMIT ATTACHMENT 1 AS THE FIRST PAGE OF YOUR BID

BID RESPONSE

Closing Date: Bids will be received until 2:00 p.m. CDT on the scheduled closing date. The online bid portal will not accept any new bids after this time.

Signature of Bids: Each bid must show in the space provided the complete business or mailing address of the bidder and must be signed by him/her with his/her usual signature.

Withdrawal of Bids: Bids already submitted may be withdrawn on the Electronic Bid System or upon proper identification of bidder and provided request is received prior to time of closing. Negligence on the part of the bidder in preparing the bid confers no right for the withdrawal after the time set for closing of bids.

Register Your Company: For a *mandatory* pre bid meeting, you *must* be registered in our bid portal for us to record you as an attendee. If you are not marked as attended, the system will not allow you to download a bid. It will also stop you from downloading your bid if you are not registered. Also, you will need to subscribe to the bid types you can provide. This will automatically send you bid requests in the future.

Please Submit Your Bids Early: In case you have problems getting your bid to upload and need assistance, we suggest you submit before 1:30 pm. Please contact us at once if you have issues uploading. Our system will not allow any bids to be uploaded after 2:00 pm. If your pricing changes, you can replace your bid in the system any time before the 2:00 closing.

Bid Openings: All bids submitted before the specified bid closing time shall be opened and properly recorded on the bid tabulation sheet. Subsequent to the bid opening, all bids shall be thoroughly evaluated and a determination made as to their compliance with applicable specifications. The appropriate County department head shall make this determination. Upon completion of the above determination, an analysis of all bids submitted shall be prepared and formally presented to the Board of County Commissioners for acceptance and approval of the lowest and/or best bid. The Board of County Commissioners reserves the right to accept or reject any and/or all bids and to waive any irregularities or informalities therein.

Notice to Successful Bidders: The successful bidder will be notified by email or telephone as soon as possible after bids have been opened, tabulated, and analyzed.

Notice to Unsuccessful Bidders: Unsuccessful bidders will not be notified.

DEMANDSTAR POSTINGS

Demandstar Website: Shawnee County open projects are posted on Demandstar as a secondary posting. Demandstar tracks broadcast and plan holder data. Bids must be submitted through the Shawnee County Bid Portal.

Shawnee County Bid Portal: When an open project is posted, Shawnee County is not able to track who downloads project information off the bid portal website. Bids must be submitted through the Shawnee County Bid Portal to be considered. All projects are posted on the County website, not all projects are posted on the Demandstar website. Registration is free.

TERMS AND CONDITIONS

In the event that goods or services delivered by the vendor are unsatisfactory and remain unsatisfactory after a notice and an opportunity to correct the deficiencies, the County reserves the right to purchase substitute goods or services from the other bidders.

Shawnee County reserves the right to negotiate separately with any vendor after the opening of this RFP when such action is considered in its best interest. Subsequent negotiations may be conducted, but such negotiations will not constitute acceptance, rejection or a counteroffer on the part of the County.

Shawnee County interprets the term “lowest responsible and best bidder” as requiring Shawnee County to:

- A. Choose between the kinds of materials, goods, wares, or services subject to the proposal, and
- B. Determine which proposal is most suitable for its intended use or purpose. Shawnee County can consider among other factors such things as labor cost, service and parts availability and maintenance costs of items upon which proposals are received. Shawnee County can determine any differences or variations in the quality or character of the material, goods, wares or services performed or provided by the respective vendors.

Shawnee County will award the bid. If the successful vendor refuses or fails to make deliveries of the materials/services within the times specified in the RFP, purchase order or contractual agreement, Shawnee County may by written notice, terminate the contract OR purchase order. The successful vendor will certify and warrant that goods, personal property, chattels, and equipment sold and delivered are free and clear of any and all liens, or claims of liens, for materials or services arising under, and by virtue of the provisions of K.S.A. 58-201, et seq., and any other lien, right, or claim of any nature or kind whatsoever.

The vendor hereby certifies that he or she has carefully examined all of the documents for the project, has carefully and thoroughly reviewed this RFP, understands the nature and scope of the work to be done; and that this proposal is based upon the terms, specifications, requirements and conditions of the RFP, and documents. The vendor further agrees that the performance time specified is a reasonable time, having carefully considered the nature and scope for the project as aforesaid.

Shawnee County will use discretion with regards to disclosure of proprietary information contained in any response, but cannot guarantee the information will not be made public. As a governmental entity, Shawnee County is subject to making records available for disclosure pursuant to the Kansas Open Records Act. Any confidential or proprietary information should be clearly marked.

Shawnee County reserves the right to enter into agreements subject to the provisions of the Cash Basis Law (K.S.A. 10-1112 and 10-1113), the Budget Law (K.S.A. 79-2935). Agreements shall be construed and interpreted so as to ensure that the County shall at all times stay in conformity with such laws, and as a condition of agreements the County reserves the right to unilaterally sever, modify, or terminate agreement at any time if, in the opinion of its legal counsel, the Agreement may be deemed to violate the terms of such law.

The vendor certifies that this proposal is submitted without collusion fraud, or misrepresentation as to other vendors, so that all proposals for the project will result from free, open, and competitive proposing among all vendors.

This RFP, responses thereto and any contract documents will be governed by the law of the State of Kansas. Any dispute arising out of the same will be litigated only within the courts of the State of Kansas.

Vendor agrees that all data, documents, and information, regardless of form that is generated as a result of this RFP are the property of Shawnee County. The County shall not be liable to reimburse any vendor for the costs of creating, compiling or delivering the same to the County.

By submission of a response, the proposer agrees that at the time of submittal, it: 1) has no interest (including financial benefit, commission, finder's fee, or any other remuneration) and will not acquire any interest, either direct or indirect, that would conflict in any manner or degree with the performance of proposer's services, or 2) benefit from an award resulting in a "Conflict of Interest." A "Conflict of Interest" will include holding or retaining membership, or employment, on a board, elected office, department, division, or bureau, or committee sanctioned by and/or governed by the Board of Shawnee County Commissioners of the County of Shawnee, Kansas. Proposers will identify any interests, and the individuals involved, on separate paper with the response and will understand that the County may reject their proposal at its sole discretion.

No gifts or gratuities of any kind shall be offered to any County employee at any time.

The Proposer certifies that this proposal is submitted without collusion, fraud, or misrepresentation as to other Proposers, so that all proposals for the project will result from free, open, and competitive proposing.

The County is exempt from the payment of Federal and excise taxes and from Kansas sales tax.

Vendor credit agreements are prohibited. Unless otherwise stated in this document, payment will be made from vendor-submitted invoice(s) via ACH transfer, check, or credit card, net 30 days. Shawnee County will not complete any credit application or agree to credit terms supplied by vendor.

Nondiscrimination: Shawnee County is committed to the concept of equal employment opportunity. All bidders and contractors are expected to comply with the provisions of K.S.A. 44-1030 and 44-1031, copies of which are attached and shall be a part of this contract and other applicable Federal and Kansas laws governing equal employment opportunity.

In accordance with K.S.A 44-1030, vendor hereby agrees to the following:

- A. He or she will observe the provision of the Kansas Commission on Human Rights and will not discriminate against any person in the performance of work under the present contract because of race, religion, color, sex, national origin, ancestry, or physical disability.
- B. In all solicitations or advertisements for employees, he or she will include the phrase, "Equal Opportunity Employer", or a similar phrase to be approved by the Kansas Commission on Human Rights.
- C. If he or she fails to comply with the manner in which he or she will be deemed to have breached the present contract, and it may be canceled, terminated, or suspended, in whole or in part, by Shawnee County, Kansas.
- D. If he or she is found guilty of a violation of the Kansas Act Against Human Rights under a decision, or order of the Kansas Commission on Human Rights which has become final, he or she will be deemed to have breached the present contract, and it may be canceled, terminated, or suspended, in whole or in part, by Shawnee County, Kansas; and,
- E. He or she will include the provisions of subsections (a) through (d) inclusively of this paragraph in every subcontract or purchase order so that such provision will be binding upon such subcontractor or vendor.

Provisions of K.S.A. 44-1030 Statute:

Mandatory provisions applicable to contracts of the state and other political subdivisions; cancellation, when; application to subcontract; non-application to certain contract. (a) Except as provided by subsection (c) of this session, every contract for or on behalf of the state or any county or municipality or other political subdivision of the state or any agency of or authority created by any of the foregoing, for the construction, alteration or repair of any public building or public work or for the acquisition of materials, equipment, supplies or services shall contain provisions by which the contractor agrees that:

- 1. The contractor shall observe the provisions of the Kansas act against discrimination and shall not discriminate against any person in the performance of work under the present contract because of race, religion, color, sex physical handicap unrelated to such person's ability to engage in the particular work, national origin or ancestry.
- 2. In all solicitations or advertisements for employees, the contractor shall include the phrase, "equal opportunity employer," or a similar phrase to be approved by the commission.
- 3. If the contractor fails to comply with the manner in which the contractor reports to the commission in accordance with the provisions of K.S.A. 44-1032, the contractor shall be deemed to have breached the present contract and it may be cancelled, terminated or suspended, whole or in part, by the contracting agency.
- 4. If the contractor is found guilty of a violation of the Kansas act against discrimination under a decision or order of the commission which has become final, the contractor shall be deemed to have breached the present contract and it may be cancelled, terminated or suspended, in whole or in part, by the contracting agency.
- 5. The contractor shall include the provisions of paragraphs one (1) through four (4) inclusively of this subsection (a) in every subcontract or purchase order so that such provisions will be binding upon such

subcontractor or vendor. (b) The Kansas commission on civil rights shall not be prevented hereby from requiring reports of contractors found to be not in compliance with the Kansas act against discrimination. (c) The provisions of this section shall not apply to a contract entered into by a contractor: (1) Who employs fewer than four (4) employees during the term of such contract; or (2) Whose contracts with the governmental entity letting such contract cumulatively total five thousand dollars (\$5,000) or less during the fiscal year of such governmental entity.

Provisions of K.S.A. 44-1031 Statute:

Same; personnel to be used in performing contracts; reports; non-application to certain contractors. Every person, as defined in subsection (a) of K.S.A. 44-1002, who wishes to enter into a contract which is covered by the provisions of K.S.A. 44-1030 shall upon request of the commission, inform the commission in writing of the manner in which such person shall recruit and screen personnel to be used in performing the contract. The report shall be made on forms to be supplied by the commission. The provisions of K.S.A. 44-1030 and of this section shall not apply to any contractor who has already complied with the provisions of such sections by reason of holding a contract with the federal government or a contract involving federal funds.

History: L.1972, ch.184, & 15; L. 1975, ch. 264, & 8; L. 1977, ch. 183, & 2; July 1.

All questions regarding this bid should be posted on the online Electronic Bid System.

For problems with the online Electronic Bid System, please contact:

Shawnee County Audit Finance Department

e-mail: Auditfinance@snco.us phone: (785) 251 – 4039

The undersigned agrees with all terms and conditions stated above:

Signature	_____
Printed Name	_____
Title	_____
Email Address	_____
Phone Number	_____

ATTACHEMENT 1

Quotation Number: 053-23
Date Issued: 10-17-2023
Closing Date: 11-03-2023, 2:00pm

Vendor Name: _____

SCHEDULE OF PRICES

ITEM DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
2024 Heavy Duty Truck Chassis with 24 yard side loader body	4	\$ _____	\$ _____

Make & Model of Side loader body

Make & Model of Truck Chassis

TRADE-IN VEHICLES

SW112 - ASL 2019 Auto Car Truck ACX 64 **ENG:** Cummins L9 **Mil:** 82458 **VIN#:** 5VCACRAF0KC229298
BODY: Heil 22yd Dura Pack Python **Ser#** 7E7303719

\$ _____

SW114 - ASL 2019 Peterbuilt 520 **ENG:** Paccar PX9 350 **MIL:** 88688 **VIN#:** 3BPDLJ0X5KF105858

BODY: Heil 22yd Dura Pack Python **Ser#** 7E7306676

\$ _____

SW115 - ASL 2019 Auto Car Truck ACX 64 **ENG:** Cummins L9 **Mil:** 75595 **VIN#:** 5VCACRAF3KC230073
BODY: Heil 22yd Dura Pack Python **Ser#** 7E7306882

\$ _____

SW118 - ASL 2019 Peterbuilt 520 **ENG:** Paccar PX9 350 **MIL:** 94107 **VIN#:** 3BPDLJ0X7KF105859

BODY: Heil 22yd Dura Pack Python **Ser#** 7E7306690

\$ _____

Subtotal Trade-in Allowance \$ _____

Total Bid Price (Subtotal Bid Price minus Trade-in Allowance): \$ _____

Total Bid Price (printed in words)

COMPANY or FIRM NAME

BY: _____

DATE: _____

**** Vehicles will remain in service until delivery of new vehicles ****