

LEGAL NOTICE

Notice is hereby given that the Lee County Board of Supervisors will, at www.centralbidding.com at 10:00 A.M. on Wednesday February 26th, 2020, shall accept electronic bids through a reverse auction for one single axle automated side loading garbage truck with a conventional chassis for the Lee County Solid Waste Department according to specifications on file with the Clerk of the Board and online at www.centralbidding.com. The Board reserves the right to reject any and all bids and to waive informalities. Bidders may download official documents from Central Bidding at www.centralbidding.com. Reverse Auction bids can be submitted through Central Bidding at www.centralbidding.com. Any questions regarding the reverse auction process should be directed to Central Bidding at 1- 225-810-4814.

Done by unanimous vote of the Board of Supervisors of Lee County, Mississippi, this the 16th day of December 2019.

/Tony Roper/
President

/Bill Benson/

CLERK

PUBLISH: January 24th & 31st, 2020

**LEE COUNTY SOLID WASTE DEPARTMENT
BIDS FOR (1) ONE SINGLE AXLE AUTOMATED SIDE LOADING
GARBAGE TRUCKS WITH CONVENTIONAL CHASSIS FOR THE
LEE COUNTY SOLID WASTE DEPARTMENT**

February 26th, 2020

10:00 A.M.

PRODUCT SPECIFICATIONS

22 Yard Single Axle Automated Side Loading Garbage Truck with Conventional Chassis

INSTRUCTIONS TO BIDDERS

A reverse auction will be conducted by the Lee County Board of Supervisors (Board) or designee at www.centralbidding.com, at 10:00 A.M. on Wednesday February 26th, 2020, for the purchase of:

One (1) 22 Yard Single Axle Automated Side Loading Garbage Trucks with Conventional Chassis.

Only solicitations made on forms furnished by the Lee County Board of Supervisors and electronic bids submitted through the reverse auction at www.centralbidding.com will be considered. Questions or comments may be directed to Doug Wiggins at 662-509-1604, or [dwiggins@trpdd.com](mailto:dwigginstrpdd.com), no later than 5:00 P.M. Wednesday February 19th, 2020. Any questions regarding the reverse auction process shall be directed to Central Bidding at 1-225-810-4814. Attention: Finley Ward. All bidders must submit their solicitations with their proposed equipment specifications at www.centralbidding.com before 5:00 P.M. on Wednesday February 19th, 2020. Solicitations meeting the required specifications will be notified via email from Central Bidding that they have been approved to participate in the reverse auction that will be conducted on February 26th, 2020.

It is the intent of the Lee County Board of Supervisors that the specifications obtain a product that will adequately meet the needs of Lee County while promoting the greatest extent of competition possible. Further, it is not the intent of these minimum specifications to eliminate any domestic manufacturer or unnecessarily restrict competition.

THE MANUFACTURER SHALL HAVE PRODUCED AUTOMATED SIDE LOADING GARBAGE BODIES FOR A PERIOD OF AT LEAST 10 CONSECUTIVE YEARS PRIOR TO DATE OF THIS BID'S PUBLICATION. APPROPRIATE MANUFACTURER LITERATURE MUST BE SUBMITTED WITH YOUR BID TO SUBSTANTIATE COMPLIANCE WITH SPECIFICATIONS. BIDS WHICH FAIL TO INCLUDE NECESSARY LITERATURE, OR CONTAIN LITERATURE THAT CONTRADICTS BID ASSERTIONS, MAY BE REJECTED.

The Lee County Board of Supervisors reserves the right to reject any and all bids. The Board also reserves the right to reject any and all bids based in errors in formula(s).

The Board reserves the right to waive minor technicalities on bid proposals when it is in the best interest of Lee County. If award is made by the Board, a Purchase Order will be forwarded to the successful bidder. Any action taken by a bidder prior to receipt of the properly executed Contract and/or Purchase Order document by the Lee County Purchase Officer will be at the bidder's **own risk** and the Lee County Board of Supervisors will not be liable for such action.

All submitted bids must be honored for a minimum of 90 days after the bid opening date to allow proper time for the Board to evaluate the proposals, make an award decision, and initiate the Purchase Order process.

Upon delivery and acceptance by Lee County, and upon receipt of an invoice, Lee County shall remit payment in full within 45 days.

PROPOSAL FOR BID

Pursuant to your advertisement a reverse auction will be conducted at 10:00

A.M., February 26th, 2020, I/We _____ residing

at _____ do submit our bid for furnishing the following in accordance with Lee County specifications. This proposal is made without collusion on the part of any person, firm, or corporation.

Our prices quoted in FIGURES ONLY for furnishing such, FOB Lee County Solid Waste Department as listed below.

DELIVERY REQUIREMENTS: DELIVERY MUST BE MADE ON OR BEFORE DATE SPECIFIED IN BID.

NOTE: IN THE EVENT THE LOWEST AND BEST BID FAILS TO MEET THE DELIVERY REQUIREMENT SPECIFIED IN BID, THE AWARD MAY BE GIVEN TO THE SUBSEQUENT LOWEST BID MEETING SPECIFICATIONS, READVERTISED, OR CANCELED.

All bids received will be evaluated for compliance with the bid requirements and specifications. Award will be made based on the lowest and best, meeting Lee County's specifications and bid requirements. If extensions are found to be incorrect, the unit figure will be used to determine the final bid.

The specifications herein describe the minimum acceptable features and performance requirements. Bidders must thoroughly read and understand these specifications prior to proposal submission. All proposals must be submitted on Lee County's form provided. Bidders shall complete the specification column with a check mark to indicate if the item being proposed by the Bidder is exactly as specified. If an item is left blank, Lee County will assume the Bidder cannot meet the specifications and may cause rejection of the proposal. By checking any of the "NO" spaces the Bidder states that the product being proposed does not conform to that specification. All variations and/or exceptions must be documented, referencing applicable paragraph(s), and supplied on a separate page titled "Exceptions". If Lee County determines by any means that exceptions exist which were not identified on such list, then that proposal will be disqualified as being non-responsive. If no exceptions are taken, it will be assumed that the proposal meets all specifications. Failure to provide the exact chassis and body specified will disqualify said bidder. Each bidder must include within their solicitation packet current published manufacturing specification documents.

Automated Side Loader Refuse Collection Truck Body

BID SPECIFICATIONS

Bidder Shall Complete the Following
If No, State Specifically the Item being Offered

Specifications:	Meets	
	YES	NO
Section 1 APPLICATION		
1.1 It is the intent of these specifications to describe the minimum requirements for an automated Side Loading refuse compactor body.	_____	_____
1.2 The capacity shall be 22 cubic yards, exclusive of the hopper.	_____	_____
1.3 Features standard to this unit will be furnished by the successful bidder. Body shall conform in strength, quality of material, and workmanship to that provided by the best engineering and manufacturing practices of the industry.	_____	_____
1.4 All equipment shall be new model design, assembled and ready for operation at the time of delivery.	_____	_____
1.5 Bidders shall attach a statement that the unit meets or exceeds these specifications and/or list any exceptions fully and accurately.	_____	_____
Section 2 GENERAL		
2.1 Refuse body will have a capacity of 22 cubic yards, exclusive of the hopper.	_____	_____
2.2 Packer body capable of packing 900 pounds per cubic yard of dry household trash.	_____	_____
2.3 Hopper shall have a minimum capacity of 6 cubic yards.	_____	_____

2.4 Packer must meet all applicable standards.

Section 3 BODY CONSTRUCTION (The following specifications are minimums.)

3.1 The body shall be all welded construction.

3.2 Body wall thickness is 10 gauge Hardox 450, 174,000 psi strength.

3.3 Body roof thickness is 10 gauge, 80,000 psi.

3.4 Body floor is 7 gauge AR 235, 70,000 psi.

3.5 Sides, front and rear to be reinforced for strength requirements.

3.6 Reinforcement design and characteristics dependent upon construction methods used, but they must be certified to meet the specified compacting requirements without body distortion.

3.7 Unit shall have a shovel holder.

3.8 Unit shall have a clean out tool shall have dual cleanout doors with a minimum dimension of 12" x 16" each.

Section 4 BODY DIMENSIONS

4.1 Body height above truck frame is not to exceed 108".

4.2 Outside width of the body is not to exceed 96".

Section 5 HOPPER

5.1 The hopper shall have a minimum capacity of 6 cubic yards.

5.2 The hopper floor shall be a minimum of 1/4" AR 400 abrasion resistant steel.

5.3 The hopper sides are to be a minimum of 1/4" AR 400 abrasion resistant steel.

5.4 A hydraulic crusher panel will be furnished to prevent refuse loss during transport.

5.5 A fold down ladder to be installed and shall be designed to meet OSHA standards and provide easy access to the hopper area. _____

5.6 The hopper shall have a minimum displacement rate of 5.4 cubic yards per minute. _____

5.7 A full front splash guard shall be installed. _____

5.8 Clean out chutes shall be installed on both sides. _____

Section 6 PACKING MECHANISM

6.1 The packing panel is to be minimum 3/8" 50,000 psi steel. _____

6.2 The packing mechanism is to retain compacted material in the body. _____

6.3 Length of the packing cycle is to be determined by proximity switches. When the auto pack feature sees maximum pressure 3 consecutive times it shuts off indicating that the packer is full. _____

6.4 Packing features are dependent upon each manufactures design, but must be capable of accomplishing the requirements set forth in these specifications. It must also fulfill the operational claims made by the manufacturer. _____

6.5 Packing shall complete a pack cycle in a maximum of 20 seconds at idle speed. _____

6.6 Packing cylinder sleeves are chrome plated single stage cylinders. Cylinder dimensions are cylinder bore diameter is 4 1/2", cylinder rod diameter is 3", and stroke length is 43". _____

Section 7 LIFTING AND GRIPPING MECHANISM

7.1 The lifting mechanism shall be capable of gripping, lifting, raising, and dumping containers from 36 to 110 gallons with the use of a joy stick. The joy stick shall be conveniently located to the left of the operator. An ergonomically designed padded armrest shall be provided to support the operator's arm during operation. _____

7.2 The arm will consist of three main horizontal mast sections, one vertical lift section with 2 arms. _____

7.3 The inner mast section will be constructed of 2 C channels with a web thickness of .5512", height of 6.189" and a leg width of 2.409". Both channels shall be 78.25" long.

7.4 The middle C channels shall be of the same material only 84" long.

7.5 The main outer mast assembly shall be constructed of 2 C shaped channels with a web thickness of .6378", height of 6.890" and a leg width of 2.5937". These channels shall be 83.75" long in length.

7.6 There will be 6 combination bearings that the mast assembly rides on. The bearing surfaces must be of a 62 Rockwell hardness on the C scale.

7.7 The main vertical mast shall be made from 6" x 8" 3/16 thick tube.

7.8 There will be 2 lift arms 1" thick, 3.475" wide, and approximately 26" long made from T-1 steel.

7.9 The lifting mechanism must be mounted to the chassis. Lifting mechanism's mounted to the body will not be acceptable.

7.10 The mechanism shall be spring steel and have the capability of gripping containers within the range previously mentioned without having to change grip arm configurations.

7.11 Gripping force is to be adjustable to provide container retention and also for limiting the radial force applied to prevent container damage.

7.12 Lifting mechanism shall be capable of a complete cycle, which includes grip, lift, dump, un dump, lower, and un grip in a maximum of 8 seconds.

7.13 The mechanism shall be capable of lifting, raising, dumping, and returning containers from any position within its reach.

7.14 The mechanism shall incorporate serviceable bearings at the grip, pivot, and extension-retraction points to ensure smooth operation and long service life.

7.15 The "reach" of the mechanism shall extend a minimum of 144" from its fully retracted to pivot, and extension-retraction points to ensure smooth operation and long service life.

7.16 The mechanism will be capable of lifting 1,000 lbs. at any point to which the arm is extended. **"Note" The "Bidder" shall provide "Certification" of this capability with their bid.**

7.17 The container shall be tilted a minimum of 45 degrees past horizontal to provide for full dumping.

Section 8 TAILGATE

8.1 The tailgate is to be hinged at or above the roofline using high strength steel hinges it is to be raised for load dumping by 2 double acting cylinders mounted on the outside of the tailgate. These cylinders shall be of a design that will prevent rapid lowering of the tailgate in case of a hydraulic component failure.

8.2 The tailgate cylinders shall have chrome plated rams. Cylinder dimensions will be 3" bore diameter, 2" ram, and a 30" stroke.

8.3 The tailgate is to be released and locked with no moving parts other than the two (2) primary lift cylinders and associated locking mechanisms.

8.4 A gasket is to be affixed to the tailgate to provide a watertight seal between the body and tailgate.

8.5 The tailgate must be equipped with a tailgate ajar switch with audible and visible warning devices fixed in the cab which comply with ANSI standards and warns when the tailgate is partially to completely open.

8.6 Body hinge structures must be of proper design, materials, and construction to support the tailgate.

8.7 Tailgate maintenance safety props shall be provided.

8.8 Tailgate bubble is Hardox 450, 174,000 psi, tailgate sides are 10 gauge 80,000 psi.

8.9 Remote grease zerks shall be located on the tailgate. _____

Section 9 EJECTION-DUMPING SYSTEM:

9.1 Dumping is to be accomplished by raising the body. _____

9.2 Dumping shall be done by means of a single telescoping, center mounted, hydraulic cylinder capable of lifting the box when compacted to maximum capacity. Hoist cylinder is a Nitrate treated, 4 stage cylinder, with a 180"stroke. Bore diameter of the cylinder from largest to smallest is 6 1/2" 5 1/2", 4 1/2", 3 1/2". _____

9.3 The body dump angle shall be such that all refuse in the box will be removed without sticking or bridging. Body dump angle is 45 degrees. _____

9.4 All dumping controls will be a basic control panel system that is cab mounted. Control panel must be interlocked with a manual override to prevent accidental refuse discharge. _____

9.5 All ejection/dumping controls shall be operated from inside the cab. _____

Section 10 HYDRAULIC SYSTEM:

10.1 The hydraulic system is composed of 2 vane pumps, one for body functions, and one for arm functions. Pumps have a common suction. Hydraulic pump model is Denison T6DC. D cartridge is for body function, C cartridge is for arm function. The hydraulic pressure body line shall be made up of a Denison Eco System with a 12 volt DC in line mounted solenoid which diverts the flow back to the Inlet when the pump is not engaged and a flow control block which diverts excess flow back to the Inlet. Body functions pump maximum flow is 30 gpm @ 700 rpm. Arm functions pump maximum flow is 22 gpm @ 700 rpm. Hydraulic system pressure relief for the body is 2500 psi and for the arm it is 2000 psi. _____

10.2 Pump capacity shall not be less than 52 gpm @700 rpm. _____

10.3 Factory installed relief valves shall be incorporated into the system set at 2500 psi for body functions and 2000 psi for Arm functions. _____

10.4 A 10 micron absolute filter is installed in the return line. _____

10.5 Hydraulic tank is to be frame mounted and equipped with a 10 micron breather element and eye level sight gauge. Tank location will be determined by body configuration. _____

10.6 Hydraulic reservoir tank capacity must be at least 78 gallons. _____

10.7 Hydraulic system must contain cylinders capable of performing the Operational requirements set forth in these specifications. _____

10.8 Hydraulic hoses are to be SAE approved construction with hose burst pressure 4 times working pressure and have protective coverings. _____

10.9 Hydraulic control assemblies must be located so that at no time or load condition it becomes necessary to remove the load to service these components. _____

10.10 All cylinders must have the latest design sealing materials. _____

10.11 Unit must have protective cover on pack manifold. _____

10.12 Unit must have a quick disconnect pressure gauge. _____

Section 11 CONTROLS:

11.1 All compactor operating controls (with rocker switches under seat) are to be located in the truck cab and mounted for operator convenience and comfort. _____

11.2 Warning signals shall be incorporated into all circuits monitoring abnormal compactor operations. _____

Section 12 LIGHTING AND WIRING:

12.1 All lights and reflectors shall be in accordance with Federal and State I.C.C. Motor Vehicle Safety Standards. _____

12.2 Provisions will be made for maximum visibility and may include 2 red stop-tail lights, 2 red turn-tail lights, and an I.D. cluster. All lights must be L.E.D. _____

12.3 A lighted license plate bracket will be provided. _____

12.4 Unit must include arm, hopper, and side mounted work lights.

12.5 Unit must include 2 tailgate work lights and 4-inch amber strobe lights plus alternating flashing lights.

Section 13 PAINTING:

13.1 All components will be properly cleaned prior to priming.

13.2 All burrs and rough spots are to be removed.

13.3 Two (2) coats of rust inhibiting primer are to be applied prior to the finish coat.

13.4 Final coat to be high gloss white.

Section 14 CAMERAS:

14.1 Two (2) Color Cameras will be provided: 1st placed in the rear for use as a backup camera. 2nd placed to monitor hopper area.

14.2 A 7" Color Camera monitor shall be mounted in the cab and be fully adjustable flat screen type with split screen option so all camera views can be displayed at one (1) time and automatically switch to full screen backup camera when unit is shifted to reverse.

14.3 The Cameras' shall be Safety Vision

14.4 Protective cases shall be provided for the cameras.

14.5 All Cameras' shall have shields to minimize sun glare.

Section 15 OTHER:

15.1 Triangle Kit to be included.

15.2 10lb. Fire Extinguisher

15.3 Two complete sets of operators, parts, and service manuals
will be supplied for truck chassis and refuse body.

Conventional Chassis Specifications

YES NO

CHASSIS SHALL HAVE DUAL DRIVE WITH ALL GAUGES.

GVWR SHALL BE 48,000 LBS.

CUMMINS ISL 350 HP @ 2000 RPM, 2200 GOV RPM,
1000 LB/FT @ 1400 RPM.

(2) 2250 CCA BATTERIES

POSITIVE LOAD DISCONNECT WITH CAB MOUNTED
CONTROL SWITCH MOUNTED OUTBOARD DRIVER SEAT

MINIMUM THIRTEEN (13) GALLON DEF TANK

MINIMUM 1100 SQ INCH RADIATOR

1000 WATT/115 VOLT BLOCK HEATER

ENGINE EXHAUST BRAKE

160 AMP ALTERNATOR WITH REMOTE BATTERY VOLT SENSE.

ALLISON 3000 RDS AUTOMATIC TRANSMISSION W/ PTO PROVISION.

VEHICLE INTERFACE WIRING CONNECTOR WITH PDM
AND NO BLUNT CUTS, AT BACK OF CAB.

SYNTHETIC TRANSMISSION FLUID
18,000# SINGLE FRONT AXLE.

FRONT BRAKES SHALL BE MERITOR 16.5X6 Q+ CAST SPIDER
CAM, DOUBLE ANCHOR, FABRICATED SHOES OR EQUIVALENT

20,000LB TAPERLEAF FRONT SUSPENSION.

30,000LB U-SERIES SINGLE REAR AXLE.

5.63 REAR AXLE RATIO OR SIMILAR

REAR BRAKES SHALL BE MERITOR 16.5X7 P CAM, DOUBLE
ANCHOR, CAST SHOES OR EQUIVALENT

30,000LB FLAT LEAF SPRING REAR SUSPENSION WITH
RADIUS ROD.

DRIVER CONTROLLED DIFFERENTIAL LOCK FOR SINGLE
DRIVE AXLE

AUTOMATIC REAR SLACK ADJUSTERS

AIR DRYER WITH HEATER

CAB TO AXLE – MEET BODY REQUIREMENTS

STEEL FRAME 120KSI

C-CHANNEL INNER FRAME
REINFORCEMENT.

80 GALLON/302 LITER RECTANGULAR ALUMINUM FUEL
TANK – LH

315/80R22.5 20 PLY RADIAL
FRONT TIRES

315/80R22.5 PLY RADIAL REAR TIRES

WHEELS 22.5X9 10-HUB PILOT 5.25 INSET
5-HAND HD STEEL DISC FRONT WHEELS.

FRONT BRAKE SHIELDS

WHEELS 22.5X9 10-HUB PILOT 5-HAND
HD STEEL DISC REAR WHEELS.

CONVENTIONAL CAB.	_____	_____
AIR CAB MOUNTS	_____	_____
DUAL 26" AIR HORNS RECTANGULAR FINISHED ROOF MOUNTED	_____	_____
CHASSIS SHALL HAVE (5) AMBER MARKER LIGHTS.	_____	_____
LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS.	_____	_____
RH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRROR WITH TRIPOD BRACKETS.	_____	_____
THREE PIRCE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS	_____	_____
DUAL WEST COAST MIRRORS HEATED MIRRORS	_____	_____
HEATER, DEFROSTER AND AIR CONDITIONER	_____	_____
CHASSIS SHALL INCLUDE 2-1/2 LB. FIRE EXTINGUISHER.	_____	_____
DUAL AIR RIDE SEATS	_____	_____
EXHAUST BRAKE	_____	_____
AM/FM/CD RADIO	_____	_____
234" WHEELBASE	_____	_____
96" REAR FRAME OVERHANG	_____	_____
RH AND LH ELECTRIC POWERED WINDOWS	_____	_____
RH AND LH ELECTRIC DOOR LOCKS	_____	_____
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN	_____	_____
DASH MOUNTED RADIO WITH AM/FM/WB TUNER	_____	_____
CAB PAINTED WHITE	_____	_____

PLEASE INCLUDE DOCUMENTATION ON ALL CHASSIS AND BODY WARRANTIES

Delivery in days: _____ after receipt of order.

Total Price Each

\$ _____

State location of nearest service facility for body and distance _____

Location _____ Mileage from Lee County _____

State location of nearest service facility for chassis and distance _____

Location _____ Mileage from Lee County _____