City of Dalton Public Works Department 535 Elm Street Dalton, GA 30721

Curb Sorter Trough Loader

Bid Specifications

SCOPE: It is the intent of this specification to describe a truck mounted trough loaded side dump unit. The unit will be used in a recycling program involving curbside collection of recyclable materials. All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use shall also be included. It is required that the unit, as specified herein, shall be completely assembled, painted, and ready for operation. The equipment furnished shall conform to all ANSI Safety Standards A245.1-1984.

BID SPECIFICATIONS

Bidder shall reply to specifications as EXACT, NO, or EXCEED per item listed. Bidder shall state specifically *ANY AND ALL* deviations of specifications on the appropriate page.

GENERAL BIDDERS RESPONSE

1.	. Four (4) container trough loaded side dump recycling body mounted on a truck chassis 33,000 GVWR recommended	
	with a 38" frame height).	
2.	2. CA - a 186" cab to axle is required.	
3.	3. AF – 121" of after frame is required.	
4.	Exhaust - vehicle to be equipped with a vertical exhaust.	
5.	5. Width - approximately 96 inches.	
6.	6. Material - troughs, containers and hoist assembly to be of	
	steel construction.	
8.	3. Must be current model production new unit. No demo or prototypes	
	are acceptable.	
9.	P. Each container to have an independent trough that is used to load	
	that individual container.	

BIN S

BIN SIZE AND A Container 1		Yards Capacity	Dump Side	
Front	1st	TC42 Compactor	Drivers	
Tiont	2nd	10.2 cu yd	Drivers	
Shallow	3rd	7.75 cu yd	Drivers	
Rear	4th	8.0 cu yd – 2-way split	Drivers	
		J J I		
TC42 PLASTICS				
	•	ace width shall be 37.5" with a st		
	-	of 8" into the receiving container		
		the curbside into a trough with a	a loading height	
		pased on a frame height of 40".	· · · · · · · · · · · · · · · · · · ·	
		be 14 seconds. With a compaction		
		ompacted volume shall be no less ssure shall be 1800 PSI with a m		
of 2200		ssure shan de 1000 FS1 with a in	aximum pressure	
5. When the	ne under-body	hoist is elevated to its maximum	n dump height	
of 84" o	n a 40" frame	, it shall achieve a 35" side offset	and a 50 degree	
dump ar	ngle.			
6. An auto	cycle feature	is standard to allow for continual	compaction	
on route				
TROUGH OPER	ATION			
1. Each tro	ugh shall be c	apable of elevating while remain	ing in upright	
position	and dumping	into the top center of the contain	ner. This trough	
operatio	operation prevents any premature spillage while fully utilizing the			
volume	volume of each container.			
	_	e the capability of lifting and dun	nping a	
· 1	ound load.			
3. Loading	height of trou	igh to be no more than 38".		
TROUGH CONS	TRUCTION			
		om to be constructed of 14-gauge	steel reinforced.	
_		nave two drain holes.		
_		11-gauge rectangular steel tube.		
4. Trough 1	not to extend o	out beyond container more than 2	21-1/2"	
when or	erating through	gh its dump cycle.		
CONTAINER OI	PERATION			
		ump to the side independently.		
		ave the capability to discharge its	s load at the	
		at any height up to 46" above charge has		
	_	have the capability of dumping in		
		I haight with vahicle and contain		

with up to 84" vertical height with vehicle and container at ground level.)

3. A 36" side offset shall be achieved when the hoist is cycled to its

maximum dump height.

4. Each container shall achieve a minimum 50-degree dump angle	
to permit clean discharge.	
5. Each container shall have the capability of dumping a minimum	
6,000-pound load plus a 50% safety factor	
6. Container and hoist shall have the ability to overlap into the	
receptacle 20" when the receptacle has a 74" vertical height.	
7. Container unloading door shall unlatch and latch automatically	
during the container tilting (dumping) cycle. This dumping	
operation shall be performed from within the chassis cab keeping	
the operator away from moving components.	
8. Throttle advance shall be automatic.	
CONTAINER CONSTRUCTION	
1. Container sidewalls to be constructed of double walled 16 gauge	
cold rolled ASTM A-366 with reinforcements of	
1-1/2" x 3" x 1/8" rectangular tube.	
2. Container floor to be constructed of 14-gauge steel with	
reinforcement of 2" x 3" x 1/4" wall long sills with 2" x 4" x 1/4"	
rectangular tube cross sills.	
3. Container top loading door is full width and length of each individual	
container and constructed of 16-gauge steel sheet framed with	
1-1/2" x 3" x 1/8" rectangular steel tube. Actuating link truss assembly	
constructed of 1-1/2" x 3" x 11-gauge rectangular tube.	
4. Top door hinges on 1-1/4" solid hinge shaft encased in heavy wall	
round tubing with 2" x 5" x 1/4" rectangular torque tube.	
5. Hinged unloading door to be:	
A. Constructed of 16-gauge steel sheet. Framed with	
1-1/2" x 3" x 11-gauge rectangular tube.	
B. Two horizontal corrugations stamped in the sheet.	
C. Removable 1-1/4" hinge pin designed for ease of replacement.	
6. Automatic unlatching and latching mechanism driven from the	
hoist mainframe.	
7. Latch fingers to be constructed of 3/4" flame cut plate operated by	
over center cam mechanism.	
8. Containers (excluding compactor) shall have "full container"	
viewing windows.	
9. Containers to have floor liner and wall liner constructed of 1/4	
Steel full length of floor and 12 inches up all walls	
CONTAINER HOIST CONSTRUCTION	
A. Container hoist assembly must be rated to handle 6,000 pound	
load plus a 50% safety factor.	
· •	
B. Container hoist sub frames to be constructed of 3" x 4" x 1/4"	
rectangular tube A500 grade C material.	·
C. Hoist parallelogram arm links constructed of 1-1/2" x 3" x 3/16"	
rectangular tube.	

D.	Hoist upper parallelogram lift tubes constructed of 3" x 4" x 1/4"	
E	wall rectangular tubing A500 grade C.	
E.	All pivot points to be constructed of a minimum of 2" OD 7/32" wall outer tube with 1-1/2" cold rolled round 1045 steel pin.	
F	All hoist pivot points to be equipped with threaded grease zerks.	
	Bottom hoist lift cylinder to be 4-1/2" diameter - two stage –	
G.	double acting, telescopic with 51" stroke - 1-1/2" pins both ends.	
Н	Tilt cylinders on containers larger than 54" wide to be tandem 4"	
11.	diameter x 12-3/8 stroke. 1-3/4" chrome rod - double acting –	
	1-1/2" diameter pins - upper scissors assembly to be twin cylinder	
	with full width rectangular tube frame for offset load stability.	
	,	
TROUGH	I DRIVE MECHANISM	
A.	Trough hoist assembly must be rated to handle 1,000 pounds.	
B.	Trough drive arms constructed of 1-1/2" x 3" x 11 gauge	
	rectangular tube with Garlock greaseless bearings 1" round x	
	1045 pivot shaft.	
C.	Trough cylinders to be 2" diameter x 12-3/8" stroke x 1-3/4"	
	chrome rod - double acting - 1" diameter pins.	
D.	Trough track bearings to be 1-1/2" diameter cam style with sealed	
_	needle bearings.	
E.	Lid positioning links to be constructed of 3/4" pipe with 5/8" - 18	
	threaded stud each end with sealed ball joint yoke 5/8" diameter	
Г	pin each end.	
r.	Trough cylinders and lid positioning links shall be adjustable to give	
	two opening heights to accommodate both trough loading and the	
	ability to handle American style wheeled carts.	
HYDRAI	JLIC SYSTEM	
	Container hydraulic system to be power up power down design.	
	10 GPM at 1,000 RPM transmission mounted Hot Shift PTO.	
	Maximum system pressure not to exceed 2,200 PSI.	
	System reservoir to be a 20 gallon capacity with 100 mesh	
	15 G.P.M. suction screen and 10 micron return line filter.	
E.	Each container controlled separately by individual solenoid valves	
	for independent container operation.	
F.	All hose connections to be JIC or O-ring type. Pipe thread fittings	
	are unacceptable.	
G.	Hoses shall be SAE 100R2 with a work rating of 4,000 PSI and a	
	minimum burst pressure of 16,000 PSI.	
H.	Overspeed protection shall be provided.	
	ICAI CNOTEM	
	ICAL SYSTEM All lights on the hadry shall be LED and most EMVSS recovering and the	
	All lights on the body shall be LED and meet FMVSS requirements.	
В.	Rear light bar with stop lights, tail lights, turn lights, back-up lights, 3 light cluster and clearance lights.	
	J light chastel and clearance lights.	

	Sealed electric back-up alarm on rear light bar, 97 db. LED Amber strobe light on top of rearmost bin with brush guard.	
	Dual automatic reset 10-amp circuit breaker.	
	Wire harness system shall be sealed in a protective loom.	
	Rear back-up camera installed	
	Strobe lights or LED flashers on all 4 corners of truck	
STABILI	ZER LEGS	
A.	Body shall include front and rear stabilizer legs located on the dumping side of the chassis (street side).	
	Stabilizers shall be constructed with a shear pin to eliminate damage in the case of chassis movement with legs extended.	
C.	Stabilizer controls shall be located inside the cab. An in-cab indicator light shall be located on chassis control panel and shall illuminate whenever either leg is not in a fully retracted position.	
D.	An alarm shall sound constantly whenever either leg is not in a fully retracted position.	
MOUNTI	NG	
	Body shall be factory mounted in accordance to industry standards.	
2.	No welding shall be performed on the chassis frame in the mounting process.	
3.	Bidder must provide a copy of proof of product liability insurance.	
WARRA	NTY	
1.	Body Manufacturer's limited warranty shall apply for a period of one (1) year after date of acceptance of the unit.	
M	ANUALS	
1.	Must come with complete hard copy parts and service manuals	

BODY SPECIFICATION DEVIATIONS List <u>ANY AND ALL</u> deviations to the above specifications. Any omissions may result in bid	
being disqualified.	
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Cab & Chassis for Recycling Collection

SCOPE: It is the intent of this specification to describe a Cab and Chassis with the following minimum specifications considered necessary to perform the work assigned. All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use shall also be included. It is required that the unit, as specified herein, shall be completely assembled, painted, and ready for operation. The equipment furnished shall conform to all applicable FMVSS requirements as set forth by the NHTSA

BID SPECIFICATIONS

Bidder shall reply to specifications as EXACT, NO, or EXCEED per item listed. Bidder shall state specifically <u>ANY AND ALL</u> deviations of specifications on the appropriate page.

GENERAL	BIDDERS RESPONSE
1. GVWR 35,000 # Factory Certified	
2. Wheelbase to meet body manufacturer's requirements	
FRAME	
1. Steel frame with steel crossmembers.	
2. Square end of frame.	
ENGINE	
1. Diesel- Cummins L9 Minimum 300 HP @ 2200 RPM	
2. 2010-2021 EPA/CARB Emission Certification	
3. Torque- minimum 860 ft. lb.	
4. Electronic engine integral shutdown protection system.	
TRANSMISSION	
1. Allison 3000 RDS with (LH) PTO provision.	
2. Transmission Cooler	
3. Push Button, Electric shift	
4. Electrical interface with body builder connector	
FRONT AXLE	
1. Axle / Suspension rated at 12,000 #	
2. Tapered leaf spring with shock absorbers.	
3. Factory front alignment.	
4. Integral power steering.	
5. Oil lubricated wheel bearings.	
6. Outboard mounted brake drums.	
7 Front cam brakes Meritor O+ 16 5x5	

	8. Two (2) 22.5x8.25 10-Hub piloted steel wheels.	
	9. Two (2) 11R22.5 14 Ply radial tires.	
	•	
REAR	AXLE	
	1. Axle rated at 23,000 #	
	2. Suspension rated at 30,000 #	
	3. 6.43 rear axle ratio	
	4. Brake cams and chambers on forward side of drive axle.	
	5. Rear cam brakes Meritor Q+ 16.5x7.	
	6. Four (4) 22.5x8.25 10-Hub piloted steel wheels.	
	7. Four (4) 14ply 11R22.5 14 ply tires	
	8. Driver controlled differential lock	
BRAK	E SYSTEM/ AIR SYSTEM	
	1. Full air with anti-lock brake system.	
	2. Brake Spiders- Cast ONLY front & rear.	
	3. Auto slack adjusters front and rear.	
	4. Non-Asbestos brake lining- Front & Rear.	
	5. Compressor- 18.7 CFM	
	6. Brake line air dryer with heater.	
	7. Steel air tanks	
	8. Pull cord drain valves on all air tanks	
	9. Low pressure warning light and buzzer	
	10. Air brake parking valve handle, located convenient to operator.	
AIR C	LEANER	
	1. Side of hood air intake with firewall mounted air cleaner.	
	2. Dash mounted air restriction indicator.	
EXHA	UST SYSTEM	
	1. RH outboard under step mounted horizontal after treatment system	
	w/ RH B-pillar mounted vertical exhaust.	
	2. Engine after treatment device, automatic over the road regeneration	
	and dash mounted regeneration request switch.	
	3. 6-gallon LH mounted exhaust (DEF) fluid reservoir	
	4. Aluminum after treatment device/ muffler/ tail pipe shields.	
	5. Exhaust brake with on/off dash switch	
	OX/O/DEN#	
FUEL	SYSTEM	
	1. 80-gallon minimum capacity mounted StreetSide	
	2. Fuel water separator.	
COOI	ING SYSTEM	
COOL		
	 Coolant protection to -34 degrees Fahrenheit. Lower radiator guard. 	
	3. 1100 square inch aluminum radiator	
	5. 1100 square men arummum radiator	

	4. Rubber coolant hoses with constant torque clamps.	
	5. 1000 watt / 115-volt block heater	
CAB		
	1. Flat roof aluminum conventional cab.	
	2. High back suspension driver's seat with	
	fore and aft adjustment.	
	3. 3-point fixed d-ring retractor both driver seat belt.	
	4. Air horn	
	5. Combination heater/ air conditioner unit	
	6. Steel front bumper	
	7. Each side to have West Coast Style mirrors; heated,	
	electric adjust with 8" convex mirrors.	
	8. Roll-up windows. Sliding windows are NOT acceptable.	
	9. Front Fenders	
	10. AM/FM radio with dual speakers.	
	11. 5-lb fire extinguisher and tri-angle kit.	
	12. Full set of gauges.	
	13. Ignition and doors keyed alike.	
	14. Hood mounted spot mirrors left and right side	
	15. Windshield wipers w/ intermittent feature.	
	16. Insulated headliner, lighter, interior light, vinyl floor covering.	
	17. Front mount tow hooks/ tow pin.	
	18. All windows to have safety tinted glass.	
	TAINE MANUE A CEUDING (ONLY)	
	TAINE MANUFACTURING (ONLY)	
DUAI	L DRIVE STAND UP CAB MODIFICATION	
	1. Right side stand up dual drive conversion.	
	2. Factory style gauge cluster with turn signal and flasher switch RH side.	
	3. Rubber mat installed on floor 4. BH oah stan height minimum 18" helevy ton of frame height	
	4. RH cab step height minimum 18" below top of frame height.	
	5. All high-quality gearbox steering with splined pinch	
	bolt type connections.6. RH flip switch for parking brake	
	7. Air controls for RH brake with electronic accelerator pedal.	
	8. OEM type steering wheel w/ electric horn operation from	
	right side steering wheel.	
	9. RH flip down seat FVMSS approved with seat belt and large	
	padded back rest located directly centered behind RH steering wheel.	
	10. Outside bi-folding door with stainless steel hinge and	
	aluminum drip edge above door.	
	11. Side door window panes are to be same size, all glass to	
	comply with FMVSS regulations.	
	12. OEM curved windshield is retained and NOT altered.	
	13. OEM sun visor and map storage pocket area NOT altered.	
	14. All universal joints to be Greasable and covered with shield.	

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	16. One (1) year wa	arranty on modification.			
ELE(CTRICAL				
	1. 160-amp alternat				
		ver disconnect with cab m			
		rith solid-state circuit prot	ection.		
	4. 2250 CCA maintenance free batteries.				
	5. Body builder wiring harness				
	6. 12v power supply in dash.				
	7. Engine shutdown for low oil pressure, high coolant				
	temperature, low				
		circuit breakers, insulated			
	and braided covering, numbered and color-coded circuits. 9. Headlights turn signals and marker lights.				
			.4		
		with monitor mounted cer	iter of dash		
	11. 4 corner and 2 n	nid mounted strobe lights			
COL	OR				
COL	1. Cab exterior:	Manufacturers' standar	d WHITE		
	1. Cuo exterior.	Color Code:			
	2. Cab interior:	grey- preferred			
WAR	RANTY				
	1. State and ATTA	CH COPY of standard cha	assis warranty:		
	Months:	Mileage:	Hours:		
	2. State and ATTA	CH COPY of standard eng	Hours:gine warranty:		
	Months:	Mileage:	Hours:		
	3. State and ATTA	CH COPY of standard tra	nsmission warranty:		
			Hours:		

All equipment is to be factory mounted, F.O.B. City of Dalton Public Works, serviced and ready for operation.

CHASSIS SPECIFICATION DEVIATIONS List <u>ANY AND ALL</u> deviations to the above specifications.	Any omissions may result in bid
being disqualified.	

PRICING: State make and model being bid	
BODY:	
CHASSIS:	
PACKAGE PRICE	\$
Current published literature for ch	assis and body MUST be provided with the bid
DELIVERY:	
ANTICIPATED DELIVERY OF COM	PLETE PACKAGE DAYS
	nce or rejection and City of Dalton specifically reserves the we any technicalities and formalities in the bidding.
	ons stated above, clarifications made to the above or be under separate cover and to be considered only at the
Name of Company Representative	Company
Title	Address
Authorized Signature	City, State, Zip Code
	Company Phone Number