BID PRICING SUBMITTAL FORM TANDEM AXLE SIDE LOADER, GARBAGE WASTE, RFB #PUR0417-208 REVISED ATTACHMENT B

SPECIFICATION COMPLIANCE - Any supplier who willfully falsifies responses indicating compliance or non-compliance with the minimum requirements listed below will be subject to suspension and/or debarment from bidding.

Cab & Chassis

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
1	Engine	cc. opco	0,00	Opou	- Commonto
-	370 HP Cummins ISL9, with current Tier level				
	requirements				
	2100 Gov. 1150 ft-lb.				
2	Electronic Parameters				
	PTO function enable				
3	Engine Equipment			1	
	Remote mounted oil check and fill				
	One piece valve cover				
	15" air cleaner				
	DR 12V 160 AMP 36-SI Quadra mount				
	alternator				
	(3) GRP31 12V MF 2280 CCA threaded stud				
	batteries				
	Frame ground return for battery cables and				
	positive posts - Jumpstart posts				
	Non-polished battery box cover				
	No clutch				
	18.7 CFM air compressor				
	Steel compressor discharge line with integral				
	quick connect system charging valve				
	Electronic engine integral shutdown protection				
	system				
	No retarder				
	RH mounted vertical stack exhaust				
	Engine after treatment with both active and				
	manual regeneration with appropriate dash				
	mounted switches				
	RH curved top stack				
	Aluminum after treatment heat shield				
	11'6" exhaust system height				
	Automatic fan control without dash switch				
	Fuel – water separator fuel filter				
	Full flow oil filter				
	Extended purge dryer				
	1300 sq. in. aluminum radiator				
	Anti-freeze to -34F, ethylene glycol pre-				
	charged SCA heavy-duty coolant				
	Blue Stripe coolant hoses				
	Constant tension hose clamps for coolant				
	hoses				
	No radiator draincock				
	Lower radiator guard				
	Aluminum flywheel housing				
	Air intake warmer				
	12V starter with integrated magnetic switch				
	Electric engine block heater				

		Dogo Not	Mooto	Typoodo	
	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
4	Transmission and Equipment	Meet Spec	Spec	Spec	Comments
7	Allison 3000 RDS Automatic Transmission,				
	with PTO provision				
	WTEC calibration- 6 speed RDS with auto				
	neutral (package 170)				
	Vehicle interface wiring and PDM with body				
	builder connector at end of frame				
	Front mounted PTO behind grill cannot extend				
	past front bumper				
	Magnetic plugs, engine drain, transmission				
	drain, axles fill & drain				
	Push button, electronic shift control, dash				
	mounted				
	Transmission oil check and fill with electronic				
	oil level check				
E	Water to oil transmission cooler under radiator				
5	Front Axle and Suspension Dana 2200W, 20,000 lb front axle		l		
	16.5 X 6 Q+ cast spider cam front brakes,				
	double anchor, fabricated shoes				
	Non-asbestos front brake lining				
	Cast iron front brake drums				
	Vented front hub caps				
	Standard spindle axle nuts for all axles				
	Automatic front slack adjusters				
	Power steering				
	4-quart see-thru power steering reservoir				
	20,000 lb flat leaf front suspension				
	Front shock absorbers				
	Spring pins grease point – location of grease				
	points to be communicated by successful				
	bidder				
	Grease Bank				
6	Rear Axle and Suspension		1		
	Meritor RT-46-160 R-series tandem rear axle				
	@46,000#				
	6.43 ratio with traction control				
	Iron rear axle carrier housing				
	1710 main driveline with half round yokes				
	1710 inter-axle driveline with half round yokes				
	No traction equalizer One (1) inter-axle lock control valve for				
	tandem or tridem drive axles				
	Warning light for inter-axle wheel lock				
	Synthetic Auto Trans oil & Mobil Synthetic				
	75W-90 all axles				
	Meritor 16.5 X 7 Q+ cast spider cam rear				
	brakes, double anchor, fabricated shoes				
	Non-asbestos rear brake lining				
	Cast iron rear brake drums				
	Rawhide Scotch seal Plus XL rear oil seals				
	Haldex Goldseal on all drive axles				
	Haldex automatic rear slack adjusters				
	Hendrickson HMX460, 46,000 lb suspension				
	with torque rods				
	54" axle spacing				

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	Fore and aft and transverse control rods	Woot Opeo	Орос	Орос	Commone
7	Brake System Equipment				
•	Air brake package				
	ABS with traction control enhancement				
	Reinforced nylon, fabric braid and wire braid				
	chassis airlines				
	Standard brake system valves				
	Relay valve with 5-8 PSI crack pressure no				
	rear-proportioning valve				
	BW AD-IP (DRM) brake line air dryer heater				
	Steel air brake reservoirs				
	Central air drain manifold				
8	Wheelbase and Frame		L	1	
	Wheelbase = 251" (in.) approx.				
	Bridge length 23'				
	10.76 x 3.50 x .375 body builder dependent				
	drop frame				
	1/4" c-channel inner frame reinforcement				
	Rear frame overhang = 78" (in.) rating at 4.2				
	RBM				
	Frame overhang range 71" to 80"				
	Square end of frame				
	Light weight heavy duty aluminum engine				
	cross member				
	Standard rearmost cross member				
	Heavy duty suspension cross member				
9	Chassis Equipment				
	Steel bumper with wrap-around steel ends				
	Two (2) front tow hooks, frame mounted,				
	exposed for easy hook up				
	Bumper mounting for license plate				
	Clear frame rails / NO protrusions outboard				
	both frame rails BOC to rear suspension -				
	must be compliant with body builder				
	requirements				
	Huck bolt fasteners				
10	Fuel Tanks and Equipment	T	I		
	50-gallon rectangular aluminum fuel tank				
	Fuel/water separator w/12V heater				
	Reinforced nylon fuel hose				
	No fuel cooler				
11	Front Tires, Hubs, Wheels				
	Michelin XZUS2 315/80R22.5 20 ply				
	Pre-set bearing iron front hubs				
	22.5 X 9.00 10-hub pilot 3.12 inset aluminum				
40	for max wheel cut				
12	Rear Drive Tires, Hubs, Wheels				
	Michelin XDY3 X WORKS XDY 11R22.5 16				
	ply	-			
40	Pre-set bearing iron rear hubs, steel				
13	Cab Exterior		ı		
<u> </u>	COE cab galvanized steel flat roof cab	-			
	Aluminum and fiberglass cabs are				
	unacceptable				
	Poly fender extensions				
	Grab handle LH and RH				

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	Removable type grill with bug screen				
	Single outside self-cleaning steps				
	Steel doors				
	Dual air horn				
	All locks keyed the same				
	LED headlight				
	LED marker lights				
	Electric Air over hydraulic cab tilt assist				
	Standard front turn signal lamps				
	Dual bright finish heated West Coast mirrors				
	with LH/RH remote				
	Mirrors must be 4-way adjustable				
	electronically and from both driving positions				
	Remote switch mounted on center of				
	dashboard within reach of the right or left side				
	driver compartment				
	Door mounted mirrors, with retractable arms				
	102" equipment width				
	LH/RH 8" stainless steel color convex mirrors				
	mounted under primary mirrors, heated				
	Standard side/rear reflectors				
	Tinted windshield				
	Windshield washer reservoir without fluid level				
	indicator				
14	Cab Interior				
	Cab interior room to be 120-125 cubic feet to				
	provide ample room for operator in both right				
	and left hand operations				
	Dual sit down drive with left and right hand				
	operation				
	Battery disconnect switch				
	Molded plastic door panels				
	Rubber floor covering with insulation Forward roof mounted console				
	5 lb. fire extinguisher				
	Integral heater, defroster and air conditioning dash mounted				
	Main HVAC controls with recirculation switch				
	Standard heater plumbing with shut off valves				
	Sanden heavy duty air conditioner compressor				
	Binary control, R-134A				
	Cab insulation				
	Solid state circuit protection and fuses				
	12V negative ground electrical system				
	Dome light with 3 way switch activated by				
	door				
	Cab door latches with manual locks				
	Bostrom high back, air suspension driver seat				
	Bostrom high back, air suspension passenger				
	seat				
	Integral door panel arm rests				
	3 point fixed retractor driver and passenger				
	seatbelts				
	Fixed steering column				
	16" steering wheel				
	Driver and passenger interior sun visor				
	z and passenger interior out vices	l .			

		Dogo Not	Mooto	Typoods	
	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
15	Instrument Panel & Controls	Meet Spec	Spec	Spec	Comments
13	Engine remote interface with park brake and	Ι			
	auto neutral				
	Low air pressure light and buzzer				
	Primary and secondary air pressure gauges				
	Intake mounted air restriction indicator without				
	graduations				
	Cruise control - elec. engine with switches				
	Key operated ignition switch and integral start				
	position; 4 position Off/Run/Start/Acc, located				
	in center of vehicle				
	Overhead CB Radio provision				
	Center location ignition switch				
	4 sets of keys required				
	ODO/Trip/Hour/Diagnostic/Voltage display				
	with on-board diagnostics on both sides				
	LH/RH drivers				
	Diagnostic interface connector, 9 pin, SAE				
	J1587/1708/1939, located below dash				
	Electric fuel gauge				
	Engine remote interface not configured Park brake and auto neutral				
	Electrical engine coolant temperature gauge				
	Transmission oil temperature indicator light				
	Power outlet on dash				
	Engine and trip hour meters integral within				
	driver display				
	Electric engine oil pressure gauge				
	AM/FM/WB radio				
	Two (2) radio speakers (cab only)				
	AM/FM/WB radio antenna mounted on roof				
	Electronic MPH speedometer with secondary				
	KPH scale				
	Electronic Tachometer, 3000 RPM				
	Ignition controlled engine stop				
	Illuminated rocker switch with wire to BOC				
	Refuse work brake for drive axle SVC brakes,				
	dash switch, w/tran auto neutral				
	Digital voltage display integral with driver				
	display				
<u> </u>	Single windshield wiper motor with delay				
	Park brake system with dash valve control				
-	auto neutral and warning indicator Self-cancelling turn signal switch				
16	Paint Designs	<u> </u>			
10	Paint: one solid color				
	Cab color A: Imron N0006EA White Elite SS				
	Chassis: Black, high solids polyurethane				
	Front wheels: Aluminum front wheels/rims				
	Rear: Vendor white rear wheels/rims				
	Standard "vehicle makes frequent stops" decal				
	on rear of body 24" tall by 72" wide.				
	Placement will be determined by Solid Waste				
	Management staff before decal is placed on				
	vehicle but generally centered so that				
	approaching traffic has decal in normal line of				

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	sight				
	Bumper paint FFP24812 Argent Silver DuPont				
	Flex				
17	Factory Dual Drive Conversion				
	Dual drive, sit down RH and LH side drive				
	Aftermarket conversions are not acceptable				
	on the cab-over chassis				
18	Manuals				
	Hard copy, exactly as stated on page 4 of the				
	bid document				
19	Warranty				
	Warranty will be the standard cab and chassis				
	truck warranty provided by the truck				
	manufacturer				
20	Additional Warranty				
	5 year extended engine/after treatment				
	warranty parts and labor				
	5 year extended transmission warranty for				
	refuse vocation				
	Vendor to provide a warranty summary card				
	identifying all applicable warranties				
	Vendor to provide weight distribution study			_	

<u>Side Loader Body – Perkins Labrie only - No substitutions</u>

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
1	General	ест орее	, opss	1 0000	331111131113
	Side load packer body and hopper design will				
	allow manual and automated loading without				
	any changes to hopper or body equipment				
	configuration required to do either task				
	To ensure correctness, the body manufacturer				
	will mount the automated side loading lifting				
	arm				
	At no time during the automated process				
	of dumping of container shall any part of				
	the arm or container extend above the				
	static roofline of the body				
	Grab clamp shall be actuated by two cylinders				
	and use a high friction rubber strapping to				
	enable loading of both 32 to 100 gallon				
	garbage cans and roll carts				
	Maximum manual loading height shall be 5.5'				
	above frame				
	Manual loading shall be accomplished without				
	the use of a container				
	High-density side-load body to be				
	approximately 29 cubic yards exclusive of the				
	hopper				
2	Rear roof wire protection				
	Hopper	T		T	
	Hopper capacity to be 4.0 cubic yards located				
	directly behind cab			-	
	Hopper floor and sides to be 3/16" abrasion				
	resistant 70,000 PSI steel				

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	Minimum Charification	Does Not	Meets	Exceeds	Commonto
	Minimum Specification	Meet Spec	Spec	Spec	Comments
_	Hopper crusher panel, full width				
3	Hopper Doors		I	T	
	Hopper loading area is completely enclosed				
	with a right and left hand doors				
	Right (curbside) hopper door is to be split for				
	arm operation with the lower portion of door closed				
	Hopper side door handle type latch				
	Shovel and broom aluminum holders on				
	curbside hopper door				
4	Electrical System				
7	All switches to be watertight and mounted into		1		
	an anti-corrosion box				
	Circuit Boss – Circuit Isolator #70207 (7				
	circuits), Painless is the current product line				
	we use configured as follows:				
	Circuit 1-3 – constant power				
	Circuit 4-7 – ignition powered				
	Exact connection to particular component will				
	be determined with successful bidder				
5	Paint				
	Body and hopper to include the standard				
	sandblasting, two coats of quality primer, rust				
	proofing, fog coating and finishing coat of				
	IMRON acrylic lacquer or acrylic super enamel				
	Finish coat on box to be Dupont Imron white				
	to match chassis color				
6	Exterior Lights/Reflectors		1		
	As required by D.O.T. and I.C.C.		1		l i
-					
	Lights to be LED Style, watertight, recessed				
	Lights to be <i>LED Style</i> , watertight, recessed stop, clearance, taillights and orange or yellow				
	Lights to be <i>LED Style</i> , watertight, recessed stop, clearance, taillights and orange or yellow warning beacon lights on front and back of				
	Lights to be <i>LED Style</i> , watertight, recessed stop, clearance, taillights and orange or yellow warning beacon lights on front and back of packer box				
	Lights to be <i>LED Style</i> , watertight, recessed stop, clearance, taillights and orange or yellow warning beacon lights on front and back of packer box Lights to meet FMVSS specifications				
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		Dogo Not	Mooto	Typoodo	
	Minimum Specification	Does Not	Meets	Exceeds	Comments
	Minimum Specification Emergency stop at all control stations and	Meet Spec	Spec	Spec	Comments
	panic bar mounted on curbside hopper area				
	Manual control valve in cab with safety lock to				
	prevent accidental activation of body hoist				
	Proximity switch/sensor for extending and retracting position of packer				
	All controls and accessories required for safe				
	operation of the vehicle shall be supplied				
8	Cameras and Vision System				
O	Color, low light cameras shall be mounted on			I	
	tailgate and in hopper area and curb side view				
	to observe collection arm and dumping into				
	hopper with LCD color monitor mounted in cab				
	Complete system shall be color				
	Minimum 5" LCD				
	Angeltrax or Pro Vision DVR system with 5				
	color cameras and VSM GPS, City will choose				
	system at time of award				
9	Accessories	<u> </u>	<u> </u>		
	Mud guards are to be placed in front of rear				
	axle and mud flaps are to be placed behind				
	rear axle				
	Grease gun holder, preferably OTC 2340				
	Clean out tool and aluminum holder				
	Shovel and broom aluminum holders on				
	curbside hopper door				
	Inside hopper bracket				
	Fenders				
	ICC bumper, full width				
10	Training			•	
	Training for operation and maintenance of the				
	unit and all equipment contained on the unit				
11	Manuals				
	Hard copy, exactly as stated on page 4 of the				
	bid document				
	One (1) set of operating, service and part				
	manuals including maintenance procedures				
	Vendor is required to provide the City with a				
	listing of all filters used on the finished product				
	The listing must include filter type, use, and				
	model number				
12	Warranty	T			
	Two (2) year 100% parts & labor warranty				
	beginning the date unit is put into service by				
	the City of Cedar Rapids				
40	Three (3) year warranty on cylinders				
13	Cart Tipper Street Side				
	The cart tipper shall be Perkins constructed				
	from high quality steel - no substitutions				
	The cart tipper shall be activated by a rotary actuator drive mechanism				
	The cart tipper operation shall be smooth and				
	· · · · ·				
	The cart tipper parts shall be bolted to ensure				
	easy maintenance				
	The cart tipper shall be able to dump 35-95				
	gallon carts				
	ganon outto	<u> </u>	<u> </u>	L	

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	The cart tipper shall be capable of consistently	Most open	Opeo	Opou	Commonto
	tipping carts that weigh 300 pounds				
	The cart tipper cycle time shall be 10-15				
	seconds				
	The cart tipping dump angle shall be a				
	minimum of 50 degrees				
	The cart tipper shall weigh a maximum of 135				
	pounds				
	The tipper shall have a 1-year warranty on all				
	parts and labor				
14	Grab Specifications for Arm				
	Minimum container size shall be 32 gallons				
	Maximum container size shall be 100 gal.				
	Minimum lifting capacity shall be 400 # at				
	maximum reach of 120" (approx ten (10) feet)				
	Grab Pack programmable packer cycle after				
	cart pick-up, including multi-cycle option				
	Deflector shield shall be installed on arm				
	above grabber to protect cart lids if cart is				
	not set out properly faced to the curb and				
	to direct flow of product into hopper				
	High-density side-load body to be				
	approximately 29 cubic yards exclusive of the				
	hopper				
	Hopper capacity to be 4.0 cubic yards located				
	directly behind cab Hopper floor and sides to be ½" abrasion				
	resistant 65,000 PSI steel				
	Minimum hopper door width of 60 inches				
	The hopper area shall also be designed to				
	accommodate an automated arm style lifting				
	device				
15	Hydraulics				
	Hydraulics system shall be designed to ensure				
	easy maintenance				
	Hydraulic valve for curbside mounted tipper				
	shall not interfere with manually loading				
	operations				
16	•				
	All switches to be watertight and mounted into				
	an anti-corrosion box				
	All circuits properly fused with color-coded and				
	numbered wiring				
	Fuse box location to be situated in truck cab at				
	console				
	Fuses or breakers in battery box are not				
17	acceptable Exterior Lights/Reflectors			<u> </u>	
17	Exterior Lights/Reflectors				
	As required by D.O.T. and I.C.C. Lights to be <i>Truck-Lite</i> brand or approved				
	•				
	equal, watertight, recessed stop, clearance, taillights				
	All lights shall be LED style				
	Lights to meet FMVSS specifications				
	Rotating amber warning beacon Whelen				
	L41AP lights shall be installed on rear tailgate				
	and on roof of cab				
	4.14 311 1001 01 04D	l		<u>I</u>	<u> </u>

		Does Not	Meets	Exceeds	
	Minimum Specification	Meet Spec	Spec	Spec	Comments
	Units will be equipped with mid-body turn	est spee	Open	Op 33	
	signal lights				
	Full width upper light panel with all lighting				
	Mid tailgate light bars, all lights functional				
	Lower tailgate light panel, all lights functional				
18	Controls				
	Controls to consist of right, left and inside cab				
	packer controls				
	Inside cab controls for tailgate and body hoist and pack-on-the-go feature				
	Manual control valve in cab with safety lock to				
	prevent accidental activation of body hoist				
	All controls, accessories required for safe				
	operation of the vehicle shall be supplied				
	Color, low light cameras shall be mounted on				
	tailgate, in hopper area and curb side view to				
	observe collection arm and dumping into				
	hopper Complete system shall be color				
	Complete system shall be color Minimum 5" LCD color monitor mounted in				
	cab				
19	Accessories				
	Mud guards are to be placed in front of rear				
	axle and mud flaps are to be placed behind				
	rear axle				
	The packer shall be equipped with a back up				
	alarm with a volume of 105 dB				
	All controls, accessories required for safe				
	operation of the vehicle shall be supplied and shall include the following, air toggle switch to				
	apply service, brakes located on right hand				
	side at right of steering wheel				
	Vulcan on-board scale system, G703 system				
20	Electronical Connections (all connections m	ust meet this	standard	minimum	
	All lighting used shall be, at a minimum, a two				
	(2) wire light grounded through a wired				
	connection to the battery system				
	Wiring shall be run in loom where exposed, and have grommets or other edge protection				
	where wires pass through metal				
	Exterior exposed wire connectors shall be				
	positive locking, and environmentally sealed to				
	withstand elements such as temperature				
	extremes, moisture and automotive fluids				
	All wire ends not placed into connectors shall				
	be sealed with a heat shrink end cap				
	Wires without a terminating connector or				
	sealed end cap shall not be allowed All holes made in the roof shall be caulked				
	with silicon (no exception)				
	Corrosion preventative compound shall be				
	applied to non-waterproof electrical				
	connectors located outside of the cab or body				
	All non-waterproof connections shall require				
	this compound in the plug to prevent corrosion				
	and for easy separation of the plug				

		Does Not	Meets	Exceeds		
	Minimum Specification	Meet Spec	Spec	Spec	Commen	ts
	Any lights containing non-waterproof sockets					
	in a weather-exposed area shall have					
	corrosion preventative compound added to the					
	socket terminal area					
	Rubber coated metal clamps shall be used to					
	support wire harnessing and battery cables					
	routed along the chassis frame rails					
	Heat shields shall be used to protect					
	harnessing in areas where high temperatures					
	exist					
	Harnessing passing near the engine exhaust					
	shall be protected by a heat shield					
	For ease of identification, battery cables shall					
	be color coded					
	All positive battery cables shall be red in color					
	or wrapped in red loom the entire length of the					
	cable					
	All negative battery cables shall be black in					
	color					
	Wire connections shall be made using crimp					
	style heat shrink butt splice connectors or					
	soldered connection covered with heat shrink					
	If crimp style connector is used, crimping tool					
	Westward 13H876 or equivalent must be used					
	to prevent piercing heat shrink					
	Solder sleeve butt splice type connectors shall					
	not be allowed					
	not be anowed					
Qty	Description		Firm	Fixed Price		
1	Tandem Axle Side Loader – Garbage Waste per the	specifications	\$			
Tand	lem axle cab and chassis manufacturer and model					
Is ch	assis dealer authorized by the manufacturer to sell, w	arrant and ser	vice equin	ment as hid	Yes	No
13 (11	assis dealer dathorized by the manaracturer to sell, w	arraire arra ser	vice equip	inchic as bla		140
1!-	le le den men oute de une d'hou Deuline Labeire	,	N.I			
IS SIC	le loader manufactured by Perkins Labrie	'es	No			
Is bo	dy dealer authorized by the manufacturer to sell, wa	rant and service	ce equipm	ent as bid	Yes	No
Estir	nated delivery time upon receipt of purchase order					calendar days
		<u></u>				
Deal	er Name					
	E: The bid must be submitted by a licensed vehicle de	aler in the Stat	e of Iowa			
Deal	er representative signature			Date		
Scal						
	IVEDY ADDRESS	800000				
	IVERY ADDRESS	BILLING A				
	Huber			t – Accounts	Payable	
	t Services Division		dar Rapids	5		
500	15 th Ave SW	101 1 st St	SF			
	ar Rapids, IA 52404	PO Box 2				
	ar Rapids, IA 52404			406-2148		