

BID PRICING SUBMITTAL FORM
TANDEM AXLE REAR LOADER, RFB #PUR0417-208
REVISED ATTACHMENT D

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

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
1	Engine				
	350 - 370 HP Cummins ISL9, with current Tier level requirements				
	2100 Gov. 1150 ft-lb.				
2	Engine Equipment				
	2007 Current EPA/CARB Emission Certification				
	Engine mounted oil check and fill				
	Side hood air intake				
	DR 12V 160 AMP 24-SI Quadra mount PAD alternator				
	(2) Alliance 1231 GRP31 12V MF 2200 CCA threaded stud batteries				
	Battery box frame mounted (single box, mounted under left side of cab)				
	Positive and negative posts for jumpstart mounted near/on battery box				
	Non-polished battery box cover				
	No clutch				
	Wabco 15.5 CFM air compressor				
	Steel compressor discharge line with integral quick connect system charging valve				
	Electronic engine integral shutdown protection system				
	No retarder				
	RH outboard under step mounted horizontal after-treatment device with RH cab mounted vertical pipe				
	Engine after treatment device, automatic over the road regeneration and dash mounted regeneration request switch				
	Aluminum after treatment device/muffler/tailpipe shield(s)				
	Horton HT650 Frontal air on/off fan clutch				
	Automatic control without dash switch				
	MBE Fuel Filter				
	Full flow oil filter				
	950 sq. in. aluminum radiator				
	Anti-freeze to -34F, ethylene glycol pre-charged SCA heavy-duty coolant				
	Gates Blue Stripe coolant hoses				
	Lower radiator guard				
	Constant tension hose clamps for coolant hoses				
	Aluminum flywheel housing				
	Electric Grid air intake warmer				
	Delco 12V 38MT HD starter with integrated magnetic switch				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
3	Transmission and Equipment				
	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 back of cab				
	Electronic transmission customer access connector mounted BOC				
	Chelsea 277 series customer installed PTO				
	PTO mounting LH and RH side of main transmission, both ports must be usable				
	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				
	Water to oil transmission cooler in radiator end tank				
4	Front Axle and Suspension				
	AF-18.0-5 18,000# FL1 71,0 KPI/3.74 drop single front axle				
	Merritor 16.5 X 6 Q+ cast spider cam front brakes, double anchor, fabricated shoes				
	Non-asbestos front brake lining				
	Conmet Cast iron front brake drums				
	Chicago Rawhide Scotseal Plus XL front oil seals				
	Vented front hub caps – oil				
	Standard spindle axle nuts for all axles				
	Gunite automatic front slack adjusters				
	TRW TAS-85 power steering				
	Power steering pump				
	2-quart see-thru power steering reservoir				
	18,000 lb flat leaf front suspension				
	Graphite bronze bushings with seals-front suspension				
	Front shock absorbers				
	Spring pins grease point – location of grease points to be communicated by successful bidder				
	Grease Bank				
5	Rear Axle and Suspension				
	Meritor RT-46-160 R-series tandem rear axle @46,000#				
	6.43 ratio with traction control				
	Proper gearing for max speed 65-68 MPH				
	Iron rear axle carrier with standard axle housing				
	17T Meritor main driveline with half round yokes				
	17T Meritor inter-axle driveline with half round yokes				
	One (1) inter-axle lock control valve for tandem				

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	Blinking lamp with each mode switch, interaxle unlock default with ignition off				
	Castrol Transynd 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				
	Gunite heavy weight cast iron rear brake drums				
	Chicago Rawhide Scotch seal Plus XL rear oil seals				
	Haldex Goldseal Longstroke 2-drive axle spring parking chambers				
	Gunite automatic rear slack adjusters				
	Axle clamping group				
	54" axle spacing				
	Fore and aft and transverse control rods				
	Rear shock absorbers on 2 axles				
	Hendrickson HMX460, 46,000 lb suspension with torque rods				
6	Brake System Equipment				
	Air brake package				
	Wabco 4S/4M 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				
	ADIP AD-9SI Bendix spin on type air dryer with heater				
	Steel air brake reservoirs				
	Pull cables on all air reservoirs				
	Central air drain manifold				
7	Trailer Connection				
	No trailer air hose				
	Upgraded chassis multiplexing unit				
	Upgraded bulkhead multiplexing unit				
8	Wheelbase and Frame				
	Wheelbase = 222" (in.) approx.				
	Cab to trunnion = 156" (in) approx..				
	Bridge length 23' 21"				
	7/16" x 3-9/16 x 11-1/8 Steel frame				
	1/4" c-channel inner frame reinforcement				
	Frame overhang range 91" to 100"				
	2425MM (95") rear fram overhang				
	Under-slung cross-member				
	Square end of frame				
	Standard rearmost cross member				
	Heavy duty suspension cross member				
9	Chassis Equipment				
	Three piece 14" steel center bumper with replaceable steel ends				
	Two (2) front tow hooks, frame mounted and easily accessible				
	Bumper mounting for license plate				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Clear frame rails / NO protrusions outboard both frame rails BOC to rear suspension - must be compliant with body builder requirements				
	Huck-spin round collar chassis fasteners				
10	Fuel Tanks and Equipment				
	50-gallon rectangular aluminum fuel tank LH				
	Plain aluminum fuel tank with painted bands				
	Fuel tank forward				
	Fuel tank cap				
	Reinforced nylon fuel hose				
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 for max wheel cut				
12	Rear Drive Tires, Hubs, Wheels				
	Michelin XDY3 X WORKS XDY 11R22.5 16 ply				
	Pre-set bearing iron rear hubs				
13	Cab Exterior				
	106" BBC flat roof aluminum conventional cab				
	Air cab mounts				
	2-1/2" fender extensions				
	Grab handle LH and RH exterior				
	Painted plastic grill				
	Argent silver hood mounted air intake				
	Fiberglass hood				
	Single electric horn				
	Single 14" round polished air horn roof mounted with shield				
	All locks keyed the same				
	Rear license plat mount at the end of frame				
	Integral headlight/marker assembly				
	Five (5) amber marker lights, LED				
	Omit Integral stop/tail/backup lights and provide stop/tail wires to 4' beyond end of frame				
	Standard front turn signal lamps				
	Dual bright stainless steel heated West Coast mirrors with LH/RH remote 4 way adjustable, up/down and left/right				
	Door mounted mirrors				
	102" equipment width				
	LH/RH 8" bright stainless steel color convex mirrors mounted under primary mirrors				
	Standard side/rear reflectors				
	63" x 14" tinted rear window				
	Tinted door glass LH and RH with tinted non-operating wing windows				
	Manual door window regulators				
	Tinted windshield				
	8-liter Windshield washer reservoir without fluid level indicator				
14	Cab Interior				
	Opal gray vinyl interior				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	LH drive operation				
	Molded plastic door panels				
	Gray vinyl mats with insulation				
	Forward roof mounted console with upper storage compartments without netting				
	Battery disconnect switch				
	Plastic manifest holder-LH & RH door (2) cup holders LH and RH dash				
	5 lb. fire extinguisher				
	Factory installed heater, defroster and air conditioning				
	Main HVAC controls with recirculation switch				
	Standard HVAC ducting				
	Standard plumbing with ball 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 left hand door				
	One (1) 12 volt power supply in dash				
	Cab door latches with manual locks				
	Bostrom Talledaga 910 high back, air suspension driver seat				
	Bostrom Talledaga 910 high back, air suspension passenger seat				
	LH and RH Integral door panel arm rests				
	Black Cordura Plus cloth drivers seat cover				
	Black Cordura Plus cloth passenger seat cover				
	3 point driver and passenger seatbelt retractors				
	Adjustable steering column				
	450MM 18" four-spoke steering wheel				
	Driver and passenger interior sun visor				
15	Instrument Panel & Controls				
	Black Gauge bezels				
	Gray driver and center instrument panel				
	Low air pressure light and buzzer				
	2" Primary and secondary air pressure gauges				
	Intake mounted air restriction indicator without graduations				
	97db back up alarm				
	Electronic Cruise control with switches in LH switch panel				
	Key operated ignition switch and integral start position; 4 position Off/Run/Start/Acc				
	Overhead CB Radio provision				
	4 sets of keys required				
	ODO/Trip/Hour/Diagnostic/Voltage display 1X7, Char, 26 warning lamps, data linked IGU3				
	Diagnostic interface connector, 9-pin , SAE J1587/1708/1939, located below dash				
	2" Electric fuel gauge				

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	Engine remote interface not configured				
	Engine remote interface at back of cab				
	Engine ECM customer access connector mounted BOC; park brake and neutral interlock				
	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 forward LH roof				
	Electronic MPH speedometer with secondary KPH scale, without odometer				
	Electronic Tachometer, 3000 RPM				
	Ignition controlled engine stop				
	Illuminated rocker switch with wire to BOC and marker light circuit to junction block on frame BOC				
	Digital voltage display integral with driver display				
	Single windshield wiper motor with delay				
	Marker light switch integral with headlight switch				
	One valve parking brake system with warning indicator				
	Self-cancelling turn signal switch with dimmer, washer/wiper & hazard in handle				
	Integral electronic turn signal flasher				
16	Paint Designs				
	Paint: one solid color				
	Cab color A: Imron N0006EA White Elite SS				
	Chassis: Black, high solids polyurethane				
	Front wheels: Vendor white front wheels/rims				
	Rear: Vendor white rear wheels/rims				
	Bumper paint FFP24812 Argent Silver DuPont Flex				
17	Manuals				
	Hard copy, exactly as stated on page 4 of the bid document				
18	Warranty				
	Warranty will be the standard cab and chassis truck warranty provided by the truck manufacturer				
19	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				

Rear Loader Body

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
1	General				
	New Way Cobra Magnum or equivalent 25 yard rear loader				
	Body width – 96”				
	Body Length – 285”				
	Body Height – 102.5”				
	Approx. body weight 15,250 lbs				
	Hopper capacity – 3.55 yds				
	Hopper opening width – 80”				
	Loading sill height – 3.5” below frame				
	Hopper cycle time – 21-23 seconds				
	10 GA body, sides, ejection panel, front floor and upper tailgate				
	¼” sweep panel, lower tailgate and back hopper floor				
	7 GA rear floor and side panel				
2	Hydraulic Cylinder				
	Two (2) slide cylinders – 5”				
	Two (2) sweep cylinders – 4.5”				
	Two (2) tailgate cylinders – 3.5”				
	Ejection cylinder – 4 stage 7.5”				
3	Color				
	Body Color – Dark Gray				
4	Tipper				
	One (1) Center mounted Perkins cart tipper				
	One (1) Kicher bar for dumpsters and cable winch				
5	Equipment				
	Semi-automatic cycling				
	Auto back pack				
	Accelerator kit				
	Turn buckle locks				
	Back up alarm				
	Light bar				
	All LED lights				
	Sigh gauge on oil tank				
	Oil pressure gauge				
	Chrome rod cylinders				
	Side access door				
	Driver alert buzzer				
	Tailgate ajar indicator				
	Bolt on steps, rear				
	Prime paint				
	Angel Trax or Pro Vision camera system, City will choose system at time of award				
	Talamar extreme hydraulic fluid				
	Vulcan G703 scale system				
6	Hydraulics				
	Oil reservoir to be 50-70 gallon				
	Oil flow with standard pump – 36 GPM				
	Operating pressure – 2,750 PSI				
	Hydraulic hoses – 4 to 1 burts				
	Return filter – 10 micron				

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	Engine RPM – 1,000 to 2,000				
	Hydraulics system shall be designed to ensure easy maintenance				
	Hydraulic valve for curbside mounted tipper shall not interfere with manually loading operations				
7	Electrical System				
	All switches to be watertight and mounted into an anti-corrosion box				
	All circuits properly fused with color-coated and numbered wiring. Fuse box location to be situated in truck cab at console. Fuses or breakers in battery box are not acceptable				
	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				
8	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				
	Lights to meet FMVSS specifications				
	All lights will be of LED type				
	Unit shall have mid-body turn signals				
	Amber warning beacon Whelen L41AP lights shall be installed on rear tailgate and on roof of cab				
	Unit shall be equipped with mid-body turn signal lights				
	Full width upper light panel with all lighting				
	Mid tailgate light bars, all lights functional				
	Lower tailgate light panel, all lights functional				
9	Accessories				
	Mud guards are to be placed in front of rear axle and mud flaps are to be placed behind rear axle				
	All controls, accessories required for safe operation of the vehicle shall be supplied				
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				
	Two (2) year 100% parts & labor warranty beginning the date unit is put into service by				

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	the City of Cedar Rapids				
	Three (3) year warranty on cylinders				
13	Electronical Connections (all connections must 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				
	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				

Qty	Description	Firm Fixed Price
1	Tandem Axle Rear Loader – per the specifications	\$

Tandem axle cab and chassis manufacturer and model _____

Is chassis dealer authorized by the manufacturer to sell, warrant and service equipment as bid Yes No

Rear Loader manufacturer and model _____

Is body dealer authorized by the manufacturer to sell, warrant and service equipment as bid Yes No

Estimated delivery time upon receipt of purchase order _____ calendar days

Dealer Name _____

NOTE: The bid must be submitted by a licensed vehicle dealer in the State of Iowa

Dealer representative signature _____ Date _____

DELIVERY ADDRESS	BILLING ADDRESS
Joy Huber Fleet Services Division 500 15 th Ave SW Cedar Rapids, IA 52404	Finance Department – Accounts Payable City of Cedar Rapids 101 1 st St SE PO Box 2148 Cedar Rapids, IA 52406-2148