

**REVISED ATTACHMENT B – BID PRICING SUBMITTAL FORM**  
**Tandem Axle Dump Truck– RFB #PUR0118-123**

**FOB POINT**

The FOB Point, in terms of loss or damage, as well as where title to the goods is passed, shall be FOB - Destination.

**FREIGHT CHARGES**

Freight charges are to be included in the quoted price of the goods, rather than as a separate item unless otherwise noted.

**BRAND NAMES**

Unless otherwise indicated, the name of a certain brand, make or manufacturer does not restrict bidders to the specific brand, make or manufacturer named. It conveys the general style, type, character and quality of the article desired, and any article which the City in its sole discretion determines to be the equal of that specified, considering quality, workmanship, economy of operation and suitability for the purpose intended shall be accepted. Any brand name or manufacturer's reference used in this bid is descriptive NOT restrictive. It is used to indicate type and quality desired.

**EQUIVALENTS**

The name of any manufacturer mentioned in the specifications is for the purpose of establishing a minimum acceptable standard of quality desired by the City. On all items bid, the bidder shall indicate clearly the product being bid and, where applicable, shall supply catalog cuts and descriptive literature with the original copy of the bid. Equivalent products will be considered for all products unless it is specifically indicated for a particular product that no substitutions are allowed. It is the sole discretion of the City to make the determination if a product will be acceptable as an equivalent.

**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. Vendors shall complete every line on the bid submittal forms (Does not meet Spec, Meets Spec or Exceeds Spec) and indicate the exact item being bid to meet the minimum specified item. An X, check mark, or yes will indicate the item specified is being provided. All bullet points must be acknowledged with the aforementioned. All exceptions shall be stated no matter how seemingly minor.

Specifications for Tandem Axle Dump Truck with spreader, plow and pre-wet system for Fleet Services.

Cab & Chassis

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
<b>1</b>	<b>Engine</b>				
	Cummins power L9 300 Horsepower at 2200 RPM, 860 ft/lb torque at 1400 rpm (Must have wet cylinder sleeves/ liners), no substitutions				
<b>2</b>	<b>Engine Equipment</b>				
	Engine shall be equipped with a dry type air cleaner with snow door				
	Engine shall be equipped with a 1,000 watt, 115-volt block heater (minimum)				
	12V 160 AMP alternator (minimum)				
	2 -12V threaded stud batteries 2200 CCA minimum. State the CCA _____				
	Battery box frame mounted under cab (battery box mounted so as to not interfere with up-fit components)				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Frame ground return for battery cables				
	18.7 CFM air compressor				
	Electronic engine shutdown protection system				
	Exhaust appropriate for body configuration, up-fit and Federal Regulations horizontal exhaust pipe				
	Air operated fan clutch				
	Automatic control without dash switch				
	Combination full flow/bypass oil filter				
	Aluminum radiator, 1200 sq in minimum				
	Anti-freeze rated to -34 F				
	Heavy duty coolant hoses				
	Oil pan treated to resist corrosion				
<b>3</b>	<b>Transmission and Equipment</b>				
	Allison 3500 RDS automatic transmission, with PTO provision, 6 speed, no substitutions				
	Body Builder wiring to the back of the cab w/ sealed connectors				
	Temperature gauge				
	Indicator, low coolant level, with audible alarm.				
	Magnetic plugs, engine drain, transmission drain, axles fill and drain				
	Push button, electronic shift control, dash mounted				
	Transmission oil check and fill with electronic oil level check				
	Water to oil transmission cooler				
<b>4</b>	<b>Front Axle and Suspension</b>				
	18,000 lb front axle (minimum) , <b>standard axle setting</b>				
	Meritor 16.5 x 6 cast spider cam front brakes				
	Non-asbestos front brake lining				
	Cast iron front brake drums				
	Standard spindle axle nuts for all axles				
	Automatic front slack adjusters				
	Power steering				
	2 quart translucent power steering reservoir				
	18,000 lb front suspension, taper leaf spring				
	Heavy duty front shock absorbers				
	<b>Dual steering gears</b>				
<b>5</b>	<b>Rear Axle and Suspension</b>				
	40,000 lb rear axle (minimum) Meritor				
	Automatic traction control and full differential lock				
	Main driveline with half round yokes				
	Synthetic auto trans oil & synthetic 75W-90 all axles				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Meritor 16.5 x 7 cast spider cam rear brakes				
	Non-asbestos rear brake lining				
	Cast iron rear brake drums				
	Proper gear ratio's for snow plow at 65 mph				
	Drive axle spring parking chambers				
	Automatic rear slack adjusters				
	Rear suspension 40,000 lb. Hendrickson Haulmaax suspension, no substitutions				
<b>6</b>	<b>Brake System Equipment</b>				
	Air brake package				
	Cam type system				
	Air parking brake				
	Nylon air lines, color and size coded.				
	Standard brake system valves				
	Relay valve with 5-8 PSI crack pressure no rear-proportioning valve				
	AD-9 air dryer with heater				
	Powder coated paint on air tanks, to resist corrosion.				
	Pull cables on wet tank				
	Front and rear brake covers				
<b>7</b>	<b>Cab to Trunion Length</b>				
	Cab to Trunion = 120" <b>Must be compliant with body manufacturer requirements</b>				
<b>8</b>	<b>Chassis Equipment</b>				
	Front bumper treated to resist corrosion, w/ license plate mounting				
	2 tow hooks, front frame mounted				
	Front frame extension integral 20-24" in front of grille				
	Clear frame rails / <b>NO</b> protrusions outboard both frame rails BOC to rear suspension Powder coated paint on the cross members				
<b>9</b>	<b>Fuel Tanks and Equipment</b>				
	50-gallon minimum rectangular aluminum step type fuel tank LH				
	Fuel tank forward				
	Tank not to extend beyond rear of cab				
	Reinforced nylon fuel hose				
<b>10</b>	<b>Front Tires, Hubs, Wheels</b>				
	Two (2) – 385/65 x R22.5, Michelin, no substitutions				
	Cast iron front hubs				
	22.5x 12.25 10 stud -hub pilot steel disc front				
<b>11</b>	<b>Rear Drive Tires, Hubs, Wheels</b>				
	Eight (8) mud and snow rear 11R22.5 - 14 ply tires, Michelin, no substitutions				
	Cast iron rear hubs				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	22.5x8.25 10 stud- hub pilot 2 hand steel disc rear wheels				
<b>12</b>	<b>Cab Exterior</b>				
	Flat roof standard conventional cab				
	Cab air suspension				
	LH and RH exterior grab handles				
	Powder coated paint on the cab entry steps, to resist corrosion				
	Remote jump posts				
	Dual electric horn				
	All locks keyed the same				
	Rear license plate mount at the end of frame				
	Integral headlight/marker assembly				
	(5) amber marker lights, LED				
	Integral stop/tail/backup lights, LED				
	Standard front turn signal lamps				
	Dual heated West Coast mirrors, power, 4 way adjustable, no substitutions				
	Door mounted mirrors				
	102" equipment width				
	LH/RH 8" convex mirrors mounted under primary mirrors				
	Standard side/rear reflectors				
	Tinted rear window				
	Tinted door glass LH & RH with tinted wing windows				
	Manual door window regulators				
	Tinted windshield				
	Windshield washer fluid reservoir 2 gallon, translucent				
<b>13</b>	<b>Cab Interior</b>				
	Gray vinyl interior				
	Molded plastic door panels				
	Forward roof mounted console with upper storage compartments, center overhead radio compartment for city radio (radios provided and installed by the City after delivery)				
	Plastic manifest holder- LH door				
	Minimizer floor mats, black				
	(2) cup holders				
	High output heater, defroster and air conditioner				
	Main HVAC controls with recirculation switch				
	Integral snow valve with in cab control for under hood air selection				
	High output air conditioning				
	Premium cab insulation				
	Circuit breakers- auto reset				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	AM/FM radio with bluetooth, (2) radio speakers (cab only)				
	Battery disconnect				
	Dome light with 3-way switch activated by left and right hand doors				
	Cab door latches with manual locks				
	Heavy duty air ride driver's seat				
	Heavy duty stationary passenger seat				
	LH and RH integral door panel arm rests, <b>arm rest outboards are not needed</b>				
	Driver's seat- Cloth				
	Passenger's seat- Cloth				
	Adjustable <b>tilt</b> steering column				
	450MM (18") spoke steering wheel				
	Driver and passenger interior sun visor				
<b>14</b>	<b>Instrument Panel and Controls</b>				
	Low air pressure light and buzzer				
	Primary and secondary air pressure gauges. Intake mounted air restriction indicator without graduations				
	Back up alarm 107 db (minimum)				
	Cruise control, electric, with switches on the LH switch panel				
	Key operated ignition switch and integral start position; 4 position Off/Run/Start/Acc				
	4 sets of keys required				
	ODO/Trip/Hour/Diagnostic/Voltage display				
	Diagnostic interface connector, located below dash				
	Electric fuel gauge				
	Engine ECM customer access connector mounted back of cab; park brake and neutral interlock				
	Electrical engine coolant temperature gauge				
	Transmission oil temperature indicator light				
	Power outlet on dash				
	Test exterior lights- flashes exterior lights in sequence for driver pre-trip inspection				
	Engine and trip hour meters integral within driver display				
	Electric engine oil pressure gauge				
	Electronic MPH speedometer with secondary KPH scale, without odometer				
	Electronic tachometer				
	Ignition controlled engine stop				
	Single windshield wiper motor with delay				
	Marker light switch integral with headlight switch				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Self-cancel turn signal switch with dimmer, washer/wiper in handle				
	Integral electronic turn signal flasher				
	Switch and wiring for customer furnished plow lights				
<b>15</b>	<b>Paint Designs</b>				
	Paint: one solid color				
	Cab color Bright White from manufacturer standard color sheets. Premium paint, base coat, e-coat, clear coat.				
	Chassis: black, high solids polyurethane				
	Front wheels: powder coated white front wheels/rims, to resist corrosion				
	Rear wheels: powder coated white rear wheels/rims, to resist corrosion				
<b>16</b>	<b>Manuals</b>				
	Hard copy manuals, CD if available				
<b>17</b>	<b>Warranty</b>				
	Minimum three year standard warranty to include, <b>base warranty, drivetrain, engine, after treatment</b> , towing and road side assistance				
<b>18</b>	<b>Training</b>				
	Eight hours of mechanic level training to include preventive maintenance, adjustments, and common maintenance insights from the manufacture. 8 hours of operator level training to be determined by customer after purchase				
	<b>Electrical Connections</b> (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. Electrical wiring and equipment shall be installed utilizing the following guidelines: 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).				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	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.				

Dump Body

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
<b>1</b>	<b>Dump Body</b>				
	14' long by 96" wide outside dimensions				
	Sides to be 42-45", ends to be 50-52" We will not accept higher than 45"				
	Sides and front to be constructed of 7 gauge with one (1) intermediate horizontal weld-in center brace				
	50,000 PSI steel yield strength				
	65,000 PSI steel tensile strength				
	Floor constructed of ¼ AR 400 steel				
	145,000 PSI steel yield strength floor				
	400 BHN Brinell hardness				
	All welds to be continuous				
	Side to floor formed radius shall be integral with the floor. Weld in radius is not acceptable				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Fully boxed top rail				
	Cross-member less understructure, 8" I beam sills				
	Tailgate: 7 gauge, minimum 4 panel				
	1" flame cut, off-set tail gate hinge				
	1-1/4" 1045 steel, tailgate pins				
	3/8" Hi-tensile tailgate chains. Chains must be long enough to lay tailgate level with floor				
	2" X 12" green treated side boards mounted in channel at top of box, painted body color				
	Air operated tailgate locks				
	3/4" - 1" tailgate latching fingers				
	Bolt on asphalt lip 12"				
	All tailgate pivots to be grease zerk lubricated. (Stainless steel bushings are acceptable)				
	Ladder on side (fold up) – Driver side towards front of body. Grab handle mounted on body accessible from ladder to provide added safety				
	Cougar box Vibrator 3200 series, no substitutions				
	Two shovel holders mounted on sides of dump body (one (1) on each side—two (2) total)				
	Circuit Boss –Circuit Isolator # 70207 (7 circuits), no substitutions. Painless is the current product line we use configured as follows: Circuit 1-3 – constant power Circuit 4-7 - ignition powered Panel with relays and fuses on board is acceptable. All circuits labeled and are lit green or red for ease of troubleshooting and maintenance. <b>Exact connection to particular component will be determined with successful bidder</b>				
	Single person operable body prop				
	Standard 7 pin wiring connector for towing				
<b>2</b>	<b>Hoist</b>				
	Front Mount Telescopic Hoist				
	Single acting 5" minimum lift cylinder to raise dump body				
	Full strength formed, A570 grade				



	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Teflon bearings at all pivot points, and are grease-able. (Composite bushing is acceptable)				
	No doghouse inside dump body				
	50 degree dump angle				
<b>3</b>	<b>PTO</b>				
	Hot shift live power take off on transmission, 3500 series RDS Allison, no substitutions				
<b>4</b>	<b>Pump</b>				
	Capacity to run dump body and all relative hydraulic components, TXV92 Force America, no substitutions				
<b>5</b>	<b>Hydraulic Tank</b>				
	Must be equipped with fluid level indicator, sight gauge and filter, V-T35, stainless steel, no substitutions				
<b>6</b>	<b>Lights</b>				
	All lights to be L.E.D.				
	Oval Stop/turn/tail lights, Amber Strobes, and reverse lights, to be flush mounted in rear of box side pillars				
	All light reflectors as required by law				
	All lights to be heavy duty				
<b>7</b>	<b>Cab Shield</b>				
	Not to exceed 4" above cab of truck. Cab shield to extend 22" in front of headsheet				
	Four amber LED strobes mounted inside cab shield, (two front, one Left one right)				
	One Whelen R1LPP-A light bar independently wired and switched mounted on the center front of the cab shield stationary light mount, no substitutions				
	Switch must be in cab to control on and off accessible by driver				
<b>8</b>	<b>Paint</b>				
	Dump body to be washed, sandblasted, undercoated, and primed and painted with Dupont Imron NO635 Green, powder coated				
<b>9</b>	<b>Mud Flaps</b>				
	Two (2) mud flaps in the rear and two (2) anti-sail mud flaps in front of rear tires with no advertising Mud flaps are to be stationary plain black. <b>Rear must be removable without tools.</b>				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
<b>10</b>	<b>Manuals</b>				
	Parts, service and operation manuals required. Books and CDs, (if available)				
<b>11</b>	<b>Front Plow</b>				
	11' torsion trip style plow, with replaceable plow edge				
	Trip edge plow				
	Integrated shield				
	Plow height 36"				
	Stainless steel moldboard with steel framework painted safety orange				
	Screw type parking jack				
	12" Wide Rubber deflector				
	Delete skid shoes				
	27-36" Rubberized cable style plow markers				
	Right hand mailbox cutout				
	Two (2) 5/8 x 8" cutting edges, bolted to moldboard				
	Bolt on curb shoe on each end of moldboard that extend beyond edge of moldboard				
	Cushion valve mounted on plow				
	Manual relief valve mounted to front bumper plumbed to plow angle circuit				
<b>12</b>	<b>Wing Plow</b>				
	8' Universal mid-mount wing-type plow with trip edge and replaceable plow edge				
	27-32" height straight mold board				
	Cutting edge 3/4" x 6" carbide with 1/2" x 6" cover blade				
	Wing plow light mounting location to be determined				
	Wing plow plumbed with quick disconnects so the plow can easily be removed during non-winter months.				
	Painted safety orange				
	Wing Plow Locking valve, must hold wing plow in the stowed position with or without safety chains				
<b>13</b>	<b>Plow Hitch</b>				
	3 1/2" x 3 1/2" x 1/2" steel circle frame with positive stops				
	Universal quick hitch swivel plow mount				
	4" x 10" double acting hydraulic lift cylinder				
	Plow hitch shall be mounted in such a way that the engine hood can be fully opened				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	Front frame extensions as appropriate to support installation of front plow				
<b>14</b>	<b>Plow Light Package</b>				
	7" heated LED Truck Lite plow lights, part no. 80990, no substitutions. Mounted on the left and right side fenders to illuminate the roadway and plow area. Light shall have one hexagon shaped clear beam and one round amber turn/marker Manufacturer wired for plow lights				
	All plow light mounts and hardware must be stainless steel				
<b>15</b>	<b>Hydraulic Controls</b>				
	Force America MPJC5100EX Ultra proportional three lever arm rest control w 5100, no substitutions				
	All controls must be ergonomically mounted to drivers air ride seat for ease of operation. Install a ground strap connected to the metal housing on chassis to create a ground for static discharge.				
	Three lever controls- Left lever is plow control, Right lever is Hoist up and down, middle for wing control				
	5 rocker type switches to be clearly labeled and wired as follows, (reading left to right) PTO, Tailgate, Beacon and Strobes, Wing plow light, Spreader on/off.				
	Vibrator switch dash mounted				
	SC5100EX Spreader Controller with left knob controlling the spreader, and right knob controlling spinner, no substitutions				
	LCD Display screen to be mounted in such a way as to have easy view access to the operator. Operator must be able to glance from normal positioning to see display screen, prefer dash board mounted				
	Pump override control to be dash board mounted within reach of the operator				
	No hydraulic controls or components shall be mounted in a way that limits or eliminates access by the operator to all relative vehicle controls				
	Hydraulic system must be plumbed and appropriately switched to operate a slide in spreader.				
	Manual pressure release valve mounted on plow frame				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
<b>16</b>	<b>Spreader</b>				
	HI-WAY MODEL E2020XT 13' or an exact comparable				
	Height to be 48"-52", 84" wide				
	Capacity _____ cubic yards struck (please list capacity)				
	12 gauge stainless steel hopper and supports				
	10 gauge stainless steel bolt in replaceable chain shields				
	7 gauge stainless steel body floor, stitch welded				
	Stainless steel inverted "V"				
	Lift hooks on each corner, ¼" x 2" stainless steel plate				
	Four binders, one in each corner to hold sander body and rear trunion latch bar that latches into rear tailgate latch hooks				
	Hydraulics plumbed to rear of truck to operate sander and include quick coupler for easy disconnect of spreader. Location to be determined with successful bidder				
	Stainless steel shield to be installed between the top front of spreader to overlap the cab shield				
	Dual auger conveyor, 7" augers				
	Hinged top screens carbon steel				
	4 spinner overlapping deflectors				
	Stainless bypass chute for unloading				
	Spinner hydraulic motor shall be mounted directly to spinner plate, above or below spinner. No drive shaft or bearing blocks accepted				
	3.6.1 reduction gear case				
	Tilt up spinner with manual hand crank and cable required				
	Ladder to access hopper bolted to the left side rear of spreader using "grip strut" steps. Must be accessible from ground level.				
	Idler bearings shall be greaseable from the rear of spreader				
	20" urethane spinner with 6 fins				
	Sander light shall be mounted to the left rear truck, Whelen PAR-36 or equivalent. City of CR will approve mounting location.				
	Sander light shall be wired to the 7 pin trailer plug to come on with the tail lights				

	Minimum Specification	Does Not Meet Spec	Meets Spec	Exceeds Spec	Comments
	All stainless steel components shall remain unpainted				
	All carbon steel bolt on components shall be sand blasted after welding, epoxy primed and powder coated black.				
	Conveyor feedback sensor to be integral with conveyor motor. Sensor replaceable without having to change entire motor.				
<b>17</b>	<b>Chipper Hitch</b>				
	(2) Gusset plate .50 x 9.75 x 14				
	(4) angle 5.00 x 3.50 x 4.00 with hole				
	One plate, pintle, chipper ¾" thick steel				
	One round 2" x 18" round chipper bar with approx. 9" clearance from top of bar to bottom of plate				
<b>18</b>	<b>Pre-Wet System</b>				
	PWS-H Hydraulic Pre-Wet System (pre-wet granular material), no substitutions				
	Dual 200 gallon tanks installed on V-box spreader (400 gallons total)				
	Operation through spreader control				
	8.2 GPM hydraulic pump for pre-wet				
	Variable displacement orifice installed in spinner chute to place liquid on granular as it falls thru the chute to the spinner				
	Flow meter for close loop control				
	Add valve section for hydraulic pre-wet system				
	2" coupler to fill the tanks				
Pricing			Quantity	Firm Fixed Unit Price	
Firm Fixed Price for Tandem Axle Dump Truck with spreader, plow and pre-wet system			1	\$	

Truck Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Model Year: \_\_\_\_\_

Plow Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Model Year: \_\_\_\_\_

Spreader Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Model Year: \_\_\_\_\_

Pre-Wet System Manufacturer: \_\_\_\_\_ Model: \_\_\_\_\_ Model Year: \_\_\_\_\_

Estimated lead time for delivery upon receipt of purchase order: \_\_\_\_\_ calendar days

Dealer Name: \_\_\_\_\_

NOTE: All bids MUST be submitted by a licensed vehicle dealer in the State of Iowa

Dealer Representative Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**DELIVERY ADDRESS:**

Joy Huber  
City of Cedar Rapids Fleet Services Division  
500 15<sup>th</sup> Avenue SW  
Cedar Rapids, IA 52404

**BILLING ADDRESS:**

Finance Department – Accounts Payable  
City of Cedar Rapids  
101 First Street SE, PO Box 2148  
Cedar Rapids, IA 52406-2148